

The Trustees of Columbia University in the City of New York

**Report on Federal Awards in Accordance with
OMB Circular A-133**

For the year ended June 30, 2011

Employer Identification Number 13-5598093

The Trustees of Columbia University in the City of New York
Report in Connection with OMB Circular A-133
For the year ended June 30, 2011
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Report of Independent Auditors

The Board of the Trustees of
Columbia University in the City of New York

In our opinion, the accompanying consolidated balance sheet and the related consolidated statements of activities and cash flows present fairly, in all material respects, the financial position of The Trustees of Columbia University In the City of New York (the "University") at June 30, 2011, and the changes in its net assets and its cash flows for the year then ended, in conformity with accounting principles generally accepted in the United States of America. These financial statements are the responsibility of the University's management. Our responsibility is to express an opinion on these financial statements based on our audit. The prior year summarized comparative information has been derived from the University's June 30, 2010 financial statements and in our report dated October 12, 2010, we expressed an unqualified opinion on those financial statements. We conducted our audit of these statements in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

As discussed in Note 3 to the consolidated financial statements, the University changed the manner in which it classifies accumulated total investment returns within net assets as a result of the adoption of authoritative guidance, ASC 958, Not-for-Profit Entities (formerly FASB Staff Position No. 117-1).

In accordance with Government Auditing Standards, we have also issued our report dated October 21, 2011 on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters, for the year ended June 30, 2011. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be considered in assessing the results of our audit.

Our audit was conducted for the purpose of forming an opinion on the basic consolidated financial statements taken as a whole. The accompanying Schedule of Expenditures of Federal Awards for the year ended June 30, 2011 is presented for purposes of additional analysis as required by U.S. Office of Management and Budget Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations, and is not a required part of the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated in all material respects, in relation to the basic financial statements taken as a whole.

PricewaterhouseCoopers LLP

October 21, 2011

The Trustees of Columbia University in the City of New York
Consolidated Balance Sheets
At June 30, 2011, with Comparative Totals at June 30, 2010
(in thousands of dollars)

	June 2011	June 2010
Assets		
Cash and cash equivalents	\$254,444	\$202,824
Accounts receivable, net:		
Government agencies	116,054	133,089
Patient receivables	67,999	72,783
Other	183,354	185,596
Investment income receivable, net	3,035	3,022
Receivable for securities sold	56,759	59,705
Cash and securities held in trust by others	119,415	2,825
Pledges receivable, net	882,704	263,657
Student loans receivable, net	87,959	88,515
Collateral for securities loaned	9,681	4,597
Investments, at fair value	7,901,194	6,511,927
Institutional real estate	800,023	785,894
Land, buildings, and equipment, net	2,710,218	2,522,270
Other assets	63,483	60,729
Net assets held by CPMC Fund, Inc.	89,860	73,576
Interest in perpetual trusts held by others	161,256	136,045
Total assets	\$13,507,438	\$11,107,054
Liabilities		
Accounts payable and accrued expenses	\$544,172	\$469,043
Liabilities for securities purchased	29,022	16,702
Securities loan agreement payable	9,681	4,597
Prepaid tuition and other deferred credits	42,248	35,115
Deferred revenue and unamortized bond premium	63,742	55,727
Refundable advances	90,908	97,541
Capital lease obligations	114,756	116,109
Conditional asset retirement obligations	105,291	105,039
Accrued employee benefit liabilities	182,253	251,921
Federal student loan funds	78,889	78,305
Actuarial liability for split-interest agreements	45,010	44,527
Bonds and notes payable	1,539,160	1,333,133
Total liabilities	2,845,132	2,607,759
Net assets		
Unrestricted	4,763,715	5,747,265
Temporarily restricted	3,726,513	730,964
Permanently restricted	2,172,078	2,021,066
Total net assets	10,662,306	8,499,295
Total liabilities and net assets	\$13,507,438	\$11,107,054

See accompanying notes to consolidated financial statements.

The Trustees of Columbia University in the City of New York
Consolidated Statements of Activities
For the Year ended June 30, 2011, with Comparative Totals at June 30, 2010
(in thousands of dollars)

	Unrestricted	Temporarily Restricted	Permanently Restricted	June 2011	June 2010
Operating activities					
Revenues and support					
Tuition and fees	\$ 1,006,538			\$ 1,006,538	\$ 930,751
Less financial aid grants	(282,102)			(282,102)	(260,410)
Net tuition and fees	724,436			724,436	670,341
Government grants and contracts:					
Direct	675,320			675,320	628,206
Indirect	207,661			207,661	190,790
Private gifts, grants and contracts:					
Direct	290,139	687,702		977,841	314,939
Indirect	12,275			12,275	12,143
Revenue from other educational and research activities	193,924			193,924	176,401
Patient care revenue	807,092			807,092	785,506
Investment income and gains utilized	287,451	105,408		392,859	412,284
Sales and services of auxiliary enterprises	115,878			115,878	109,359
Other sources	7,810			7,810	8,140
Net assets released from restrictions	235,083	(235,083)			
Total operating revenues and support	3,557,069	558,027		4,115,096	3,308,109
Expenses					
Instruction and educational administration	1,188,959			1,188,959	1,131,676
Research	559,431			559,431	522,668
Patient care expense	719,723			719,723	704,363
Library	61,284			61,284	60,307
Operation and maintenance of plant	214,109			214,109	187,857
Institutional support	213,015			213,015	203,575
Auxiliary enterprises	93,914			93,914	89,382
Depreciation expense	175,248			175,248	165,794
Interest expense	59,086			59,086	54,790
Other	30,046			30,046	38,076
Total expenses	3,314,815			3,314,815	3,158,488
Change in net assets from operating activities	242,254	558,027		800,281	149,621
Nonoperating activities					
Endowment gifts			97,965	97,965	75,819
Current year realized and unrealized capital gains (losses)	560,877	882,112	2,879	1,445,868	878,572
Endowment appreciation utilized	(115,488)	(172,940)		(288,428)	(319,063)
Change in net assets held by CPMC Fund, Inc.	1,170	14,136	978	16,284	(1,549)
Change in funds held by others in perpetuity			25,211	25,211	6,227
Present value adjustment to split-interest agreements	1,210	(3,949)	1,970	(769)	(3,534)
Changes in pension and post retirement obligations	66,599			66,599	(24,981)
Other					8,609
Reclassification	(10,716)	(11,293)	22,009		
Change in net assets from nonoperating activities	503,652	708,066	151,012	1,362,730	620,100
Change in net assets	745,906	1,266,093	151,012	2,163,011	769,721
Net assets at beginning of year	5,747,265	730,964	2,021,066	8,499,295	7,729,574
Cumulative effect of change in accounting for NYPMIFA	(1,729,456)	1,729,456			
Net assets at end of period	\$ 4,763,715	\$ 3,726,513	\$ 2,172,078	\$ 10,662,306	\$ 8,499,295

See accompanying notes to consolidated financial statements.

The Trustees of Columbia University in the City of New York
Consolidated Statements of Cash Flows
For the Years ended June 30, 2011 and 2010
(in thousands of dollars)

	June 2011	June 2010
Cash flows from operating activities		
(Includes adjustments to reconcile change in net assets to net cash provided by operating activities):		
Change in net assets	\$2,163,011	\$769,721
Depreciation expense	175,248	165,794
Interest on capital lease obligations and CARO	11,008	11,408
Institutional real estate depreciation	19,406	18,456
Realized and unrealized (gains) losses	(1,445,868)	(878,572)
Partnership distributions	307,087	213,294
Contributions restricted for permanent investment, plant, and split-interest agreements	(99,707)	(97,006)
Contributions other than cash	(45,022)	(24,987)
Present value adjustments to split-interest agreements	229	3,100
Accreted interest on bonds	976	2,396
Change in fair value of net assets held by CPMC Fund, Inc.	(16,284)	(11,180)
Change in fair value of interest in perpetual trusts held by others	(25,211)	(6,227)
Change in operating assets and liabilities:		
Accounts receivable, net	24,061	(32,549)
Investment income receivable, net	(13)	(834)
Pledges receivable, net	(619,047)	26,586
Other assets	(2,754)	10,079
Accounts payable and accrued expenses	14,712	(40,055)
Prepaid tuition and other deferred credits	7,133	(23,819)
Deferred revenue and unamortized bond premium	8,015	(10,530)
Refundable advances	(6,633)	(3,620)
Accrued employee benefit liabilities	(69,668)	31,363
Net cash provided by operating activities	400,679	122,818
Cash flows from investing activities		
Proceeds from sales of investments	4,360,484	4,391,186
Purchases of investments	(4,561,067)	(4,360,154)
Collections from student notes	11,714	10,436
Student notes issued	(11,158)	(9,683)
Investment in cash and securities held in trust by others	(116,590)	80,852
Purchases of institutional real estate	(34,051)	(37,727)
Purchases of plant and equipment	(295,286)	(280,939)
Net cash used by investing activities	(645,954)	(206,029)
Cash flows from financing activities		
Proceeds from contributions for:		
Investment in endowment	82,123	70,737
Investment in plant	15,865	24,004
Investment in split-interest agreements	1,719	2,265
Investment income on split-interest agreements	6,126	3,673
Payments on split-interest agreements	(5,871)	(5,657)
Payments on capital lease obligations	(8,702)	(9,323)
Repayment of bonds and notes payable	(194,949)	(63,163)
Proceeds from bond issuance and taxable commercial paper	400,000	0
Net change in federal student loan funds	584	1,523
Net cash provided by financing activities	296,895	24,059
Net change in cash and cash equivalents	51,620	(59,152)
Cash and cash equivalents at beginning of year	202,824	261,976
Cash and cash equivalents at end of year	\$254,444	\$202,824
Supplemental disclosure of cash flow information:		
Equipment and space acquired through capital leases	\$1,992	\$855
Cash paid during the year for interest	\$66,095	\$69,231

See accompanying notes to consolidated financial statements.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years ended June 30, 2011 and 2010
(in thousands of dollars)

1. Organization

The Trustees of Columbia University in the City of New York (the “University”) is a private, nonsectarian, nonprofit institution of higher education whose activities are concentrated at two locations in New York City and extend around the globe. The University provides instruction through sixteen undergraduate, graduate, and professional schools. It operates a variety of research institutes and a library system to support its teaching, learning, and research activities. The University performs research, training, and other services under grants and contracts with agencies of the federal government and other sponsoring organizations. The University enrolls approximately 27,606 full-time and part-time students and employs approximately 14,754 full-time employees, including 5,503 full-time faculty members and research staff. Of these, 1,391 hold positions in the arts and sciences; 3,323 hold health science positions; and the remainder hold positions in the other professional schools.

The University is a nonprofit corporation under Section 501(c)(3) of the Internal Revenue Code.

2. Columbia University Medical Center

Columbia University Medical Center (“CUMC”), a division of the University, located in the Washington Heights section of northern Manhattan, is one of the largest academic medical centers in the United States. It is composed of four schools: College of Physicians and Surgeons, Mailman School of Public Health, College of Dental Medicine, and School of Nursing. CUMC’s activities also include extensive patient care services provided by its faculty members.

CUMC has three primary areas of focus: scientific research, education, and patient care. CUMC offers a wide variety of degrees, certifications, and continuing education in health services. Sponsored research, faculty patient care services, tuition, endowment income, patent royalties, and gifts provide the bulk of CUMC’s revenues. Approximately 3,882 students are enrolled at CUMC, with a full-time faculty of 2,244, of whom approximately 316 are tenured. Additionally, CUMC’s staff includes 3,056 part-time faculty instructors, 1,079 full-time researcher staff members, 1,118 part-time researchers, and 247 post doctoral research trainees. Approximately 61 percent of the full-time faculty and 29 percent of the part-time faculty hold clinical appointments and have admitting privileges at NewYork-Presbyterian Hospital (“NYPH”) or other hospitals.

Patient Care Activities

Patient care activities include patient visits handled by Columbia full-time faculty through its medical faculty practice plan, as well as clinical and educational services provided to hospitals and other health care institutions through contractual agreements for services.

CUMC maintains several clinical and education affiliation agreements with other organizations. The most significant affiliation agreements are with NYPH, St. Luke’s–Roosevelt Hospital Center, and Bassett Medical Center. Certain faculty physicians also provide patient care and supervision of residents at NYPH network hospitals and other affiliates. In addition, through interinstitutional “medical service agreements,” CUMC faculty provide patient care in specialty and subspecialty areas at hospitals in the tristate area and occasionally in other parts of the country.

On December 31, 2010 the agreement between the New York City Health and Hospital Corporation (HHC) and the University ended and a new academic only affiliation was signed with Harlem Hospital.

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In fiscal 2011, the clinical faculty handled approximately 1.7 million outpatient and emergency room visits and participated in instruction and supervision of 600 University medical students and 900 residents and fellows at NYPH. CUMC physicians generated 65,800 NYPH hospital admissions during the year.

Payments for patient-care services provided by the full-time faculty in both institutional and private office settings are derived mainly from third-party payers, including managed care companies (57 percent), Medicare (15 percent), Medicaid (11 percent), commercial insurance (5 percent), and other (1 percent). Direct patient payments comprise 11 percent of total payments.

3. Summary of Significant Accounting Policies

The significant accounting policies of the University are as follows:

Basis of Consolidation

The accompanying consolidated financial statements of the University include the accounts of all academic and administrative departments of the University. Additionally, the consolidated financial statements include the net assets and activities of the following entities, for which the University maintains managerial and financial control:

- Columbia Investment Management Company, LLC—Columbia Investment Management Company, LLC is a New York limited liability company formed by the University to manage the University's investment assets under the supervision of a Board appointed by the Trustees of the University and subject to the oversight of the Committee on Finance of the Trustees.
- Columbia University Press—Columbia University Press is a not-for-profit corporation formed to promote the study of economic, historical, literary, philosophical, scientific, and other subjects and to encourage and promote the publication of literary works embodying original research in such subjects.
- Reid Hall, Inc.—Reid Hall, located in Paris, France, was donated to the University in 1964. Reid Hall, Inc., a corporation organized under New York membership corporation law as an educational and charitable organization, operates Reid Hall to promote, facilitate, and aid the educational, cultural, and social interests of students studying in France.
- The University holds a number of New York limited liability companies, Delaware not-for-profit corporations, and international organizations, which are established to facilitate various program and research objectives.

The University provides investment custodial services and manages all of the assets of Columbia Presbyterian Medical Center Fund, Inc. ("CPMC Fund, Inc."), a not-for-profit corporation that exists to hold and receive gifts for the University and NYPH. The consolidated financial statements reflect the University's interest in the net assets of CPMC Fund, Inc. as well as the assets and amounts due NYPH.

The University is also the sole corporate member of two not-for-profit physician private practice entities, Columbia Ophthalmology Consultants, Inc., and Columbia University Healthcare, Inc., and a for-profit professional corporation, Columbia Doctors of New Jersey, and as such, consolidates these entities into the University's consolidated financial statements.

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Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2011 and 2010
(in thousands of dollars)

All significant intercompany accounts have been eliminated in consolidation.

Accrual Basis

The consolidated financial statements of the University have, in all material respects, been prepared on an accrual basis.

Basis of Presentation

The University maintains its accounts in accordance with the principles of fund accounting. Under this method of accounting, resources for various purposes are classified into funds that are consistent with activities or objectives specified by donors. Separate accounts are maintained for each fund.

For reporting purposes, the University prepares its consolidated financial statements in accordance with accounting principles generally accepted in the United States of America ("GAAP") that requires resources be classified for reporting purposes based on the existence or absence of donor-imposed restrictions. This is accomplished by classification of fund balances into three categories of net assets – unrestricted, temporarily restricted, and permanently restricted. Descriptions of the three net asset categories and the type of transactions affecting each category follow.

Unrestricted—Net assets that are not subject to donor-imposed restrictions. This category includes unrestricted gifts, certain endowment income balances, certain board-designated endowment principal balances, including capital appreciation on such balances, certain plant funds, University-designated loan funds, and other unrestricted designated and undesignated current funds.

Temporarily restricted—Net assets that are subject to legal or donor-imposed stipulations that will be satisfied either by actions of the University, the passage of time, or both. These net assets include gifts donated for a particular purpose, certain other balances with donor-imposed restrictions, amounts subject to time restrictions such as funds pledged for future payment, or amounts subject to legal restrictions, such as the portion of a donor-restricted permanent endowment fund that is not classified as permanently restricted net assets, as required by the New York Prudent Management of Institutional Funds Act ("NYPMIFA"), adopted on September 17, 2010. Once the time and purpose restriction are satisfied, or have been deemed to have been satisfied, those temporarily restricted net assets are released from restrictions.

Permanently restricted—Net assets that are subject to donor-imposed stipulations that will be invested to provide a perpetual source of income to the University. Donors of these assets require the University to maintain an endowment fund in perpetuity. The University classifies as permanently restricted net assets (a) the original value of gifts donated to the permanent endowment, (b) the original value of subsequent gifts to the permanent endowment, and (c) realized and unrealized gains and losses to the permanent endowment when stipulated by the donor gift instrument.

Revenues and Expenses

Revenues are reported as increases in unrestricted net assets unless the use of those assets is limited by donor-imposed restrictions. Expenses are reported as decreases in unrestricted net assets. Gains and losses on investments are reported as increases or decreases in unrestricted net assets, unless their use is restricted by explicit donor stipulation or by law.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2011 and 2010
(in thousands of dollars)

Tuition and Fees and Financial Aid

Tuition and fees are derived from degree programs as well as executive and continuing education programs. Tuition and fee revenue is recognized as operating income in the period in which it is earned. Tuition and fee receipts received in advance are recorded as deferred revenue. Net tuition and fees are computed after deducting certain scholarships and fellowships awarded to students. In order to assist students in meeting tuition and other costs of attendance, the University administers a variety of federal, state, institutional, and private programs. Financial aid packages to students may include direct grants, loans, and employment.

Contributions

Contributions for university operations and plant, including unconditional promises to give ("pledges"), are recognized as operating revenue in the period earned. Contributions to endowment are recognized as nonoperating revenue in the period earned. Pledges that are expected to be collected within one year are recorded net of an allowance for uncollectable pledges. Amounts expected to be collected in future years are recorded at the present value of estimated future cash flows. The discounts on those pledges are computed using an interest rate for the year in which the promise was received and considers market and credit risk as applicable. Subsequent years' accretion of the discount is included in contribution revenue. Conditional promises to give are not recognized as revenue until such time as the conditions are substantially met.

Patient Care Revenue and Expense

Patient care activities relate to three distinct areas: medical faculty practice plans, affiliation agreements, and medical service agreements.

The University provides medical care to patients via faculty practice at CUMC, primarily under agreements with third-party payors. Agreements with third-party payors, including health maintenance organizations, provide payment for medical services at amounts different from standard rates established by the University. Medical faculty practice plan revenue is reported net of two items: (a) contractual allowances from third-party payors for services rendered and (b) estimates of uncollectible amounts. Included within the faculty practice revenues and expenses are financial arrangements associated with several physician professional corporations.

The University maintains several clinical and education affiliation agreements with other organizations. The University provides medical, professional, and supervisory staff as well as other technical assistance. Revenues and expenses from these agreements are accounted for in patient care categories of the operating activity in the Consolidated Statement of Activities.

Grant and Contract Income

The University receives grant and contract income from governmental and private sources. The University recognizes revenue associated with the direct costs of sponsored programs as the related costs are incurred. Recovery of facilities and administrative costs of federally sponsored programs are at reimbursement rates negotiated with the University's cognizant agency, the Department of Health and Human Services. The University and the federal government are currently operating under an agreement that provides for facilities and administrative cost rates under federal grants and contracts through June 30, 2014.

Research and Development

The University engages in numerous research and development projects, partially or fully sponsored by governmental and private funds. These costs are charged to operating expense as

The Trustees of Columbia University in the City of New York
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(in thousands of dollars)

incurred. The University periodically funds and develops patents for certain technologies, then licenses the usage of these patents to companies over several years. The revenue, net of payments due to third parties, is recorded in "Revenue from other educational and research activities" in the Consolidated Statement of Activities. Costs incurred with developing and maintaining these patents are expensed as incurred.

Cash and Cash Equivalents

Cash and cash equivalents are recorded at fair value and include several depository accounts, checking accounts, institutional money market funds, and similar temporary investments with maturities of three months or less at the date of purchase.

Investments

The University's investments, consisting primarily of publicly traded fixed income and equity securities, alternative investments, and cash held for reinvestment, are stated at fair value as of June 30, 2011. Alternative investments include investments in absolute return strategy funds, private equity funds, and real asset funds (collectively, the 'funds'). The management of the respective fund provides the fair value of the investment. The University reflects its share of the partnerships or corporations in the consolidated financial statements.

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The University believes that the net asset value of its alternative investments is a reasonable estimate of fair value as of June 30, 2011. Because alternative investments are not marketable, the estimated value is subject to uncertainty and, therefore, may differ from the value that would have been used had a ready market for the investment existed. Such differences could be material. The amount of gain or loss associated with these investments is reflected in the accompanying consolidated financial statements based on the University's proportionate share in the net assets of these investments.

The University records both the assets and corresponding liabilities generated by securities lending transactions as "Collateral for securities loaned" and "Securities loan agreement payable." The loaned securities are returnable on demand and are collateralized by cash and cash equivalents.

The University's presentation in the Consolidated Statement of Cash Flows for limited liability partnerships, limited liability corporations, and other similarly structured investments is consistent with the accounting for equity method investments as it represents the underlying nature of these investments in which the University has a capital account.

The University records purchases and sales of securities on a trade-date basis. Realized gains and losses are determined on the basis of average cost of securities sold and are reflected in the Consolidated Statement of Activities. Dividend income is recorded on the ex-dividend date, and interest income is recorded on an accrual basis.

Split-Interest Agreements

The University's split-interest agreements with donors consist primarily of charitable gift annuities, pooled income funds, and irrevocable charitable remainder trusts for which the University serves as custodian and trustee. Assets are invested and payments are made to donors and/or other beneficiaries in accordance with the respective agreements. In the case of irrevocable split-interest agreements whose assets are held in trusts not administered by the University (third-party charitable

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2011 and 2010
(in thousands of dollars)

trusts), the University will recognize its beneficial interest when it is provided sufficient reliable information and documentation that establishes the trust's existence.

Contribution revenues for split-interest agreements are recognized at the dates the agreements are established net of the present value of the estimated future payments to be made to the beneficiaries, if applicable, under these agreements. The discounts on those agreements are computed using an interest rate for the year in which the promise was received and considers market and credit risk as applicable. Assets related to these agreements are recorded in "Investments, at fair value," and the liability for the present value of the estimated future payments to be made to the beneficiaries is recorded in "Actuarial liability for split-interest agreements." Adjustments to the fair value of these agreements are recorded in the Consolidated Statement of Activities under "Present value adjustment to split-interest agreements."

Institutional Real Estate

Institutional real estate consists primarily of properties proximate to the University's Morningside and Washington Heights campuses, the primary purpose of which is to house faculty, staff, and graduate students. The income earned on this investment is used primarily to finance operating expenditures. The properties are valued at cost and depreciated over a useful life of fifty years.

Land, Buildings, and Equipment

Land, buildings, and equipment are stated at cost net of accumulated depreciation. Depreciation is calculated on a straight-line basis over useful lives ranging from ten to forty years for buildings and improvements and five to twenty years for equipment, consistent with the method used for government cost reimbursement purposes. Capitalized software costs are amortized over seven years. Upon disposal of assets, the costs and accumulated depreciation are removed from the accounts, and the resulting gain or loss is included in operations.

Other Assets

Prepaid expenses, bond issuance costs, and the University's investment in the Medical Center Insurance Company ("MCIC") are categorized within other assets. Bond issuance costs are amortized over the expected holding period of the specific debt issue.

Collections

Collections at the University include works of art, literary works, historical treasures, and artifacts that are maintained in the University's galleries, libraries, and buildings. These collections are protected and preserved for public exhibition, education, research, and the furtherance of public service and, therefore, are not recognized as assets on the Consolidated Balance Sheet. Costs associated with purchasing additions to and maintaining these collections are recorded as operating expenses in the period in which the items are acquired.

Interest in Perpetual Trusts Held by Others

The University is the beneficiary of certain perpetual trusts administered by others. These trusts are recognized as permanently restricted contributions upon receipt of documentation evidencing that the trust has been established and adjusted to fair value each year. The fair value of the interest in the perpetual trust is based on the University's share of the income generated by the trust, ascribed to the fair value of assets reported by the trust. Gains and losses resulting from the change in fair value of trust assets are reported as nonoperating activity in the Consolidated Statement of Activities.

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Notes to the Consolidated Financial Statements
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(in thousands of dollars)

Capital Lease Obligations

Capital lease obligations are recognized for equipment and space where substantially all of the risks of ownership have been transferred to the University. The obligations extend up to five years for equipment and up to fifty years for space.

Conditional Asset Retirement Obligations

Conditional asset retirement obligations are recognized for remediation or disposal of asbestos, underground storage tanks, soil, and radioactive sources and equipment as required by law. The fair value of the liability for a conditional asset retirement obligation is recognized in the period in which it occurred, provided that it can be reasonably estimated.

Use of Estimates

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. The most significant estimates include valuation of investments without readily determinable public markets, estimated useful life of land, buildings and equipment, actuarially determined costs associated with split-interest agreements, pension, postemployment and postretirement benefits, contractual allowances for patient receivables, allowances for doubtful accounts, insurance obligations and conditional asset retirement obligations.

2010 Presentation

While comparative information is not required under GAAP, the University believes that this information is useful and has included summarized financial information from the consolidated financial statements for 2010. This summarized information is not intended to be a full presentation in conformity with GAAP, which would require certain additional information. Accordingly, such information should be read in conjunction with the University's audited consolidated financial statements for the year ended June 30, 2010. In addition, certain amounts in the summarized consolidated financial statements for fiscal year 2010 have been reclassified to conform to the fiscal year 2011 presentation.

New Authoritative Pronouncements

On September 17, 2010, New York adopted a version of the Uniform Prudent Management of Institutional Funds Act. New York's version of the law is known as the New York Prudent Management of Institutional Funds Act ("NYPMIFA"). In accordance with NYPMIFA and the authoritative guidance, the University has reclassified \$1.7 billion of unrestricted net assets to temporarily restricted net assets. Such amounts relate to accumulated earnings on endowment funds and other funds, including distributions from the endowment unspent due to timing. The full amount of \$1.7 billion is reflected in the consolidated statement of activities as a cumulative effect of a change in accounting principles as of July 1, 2010. The University adopted the enhanced disclosures required under the authoritative guidance in the year ended June 30, 2009.

Effective for the fiscal year ended June 30, 2011, the University adopted additional disclosures related to the fair value measurements of investments disclosed for all transfers to and from Level's 1 and 2. This standard requires that information, such as description of and reasoning for transfers

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be disclosed. There were no significant transfers in and out of Level 1 and Level 2 fair value measurements in 2011.

In addition, the University adopted the accounting standard, *Disclosures about the Credit Quality of Financing Receivables and the Allowance for Credit Losses*, requiring disclosure on the credit quality of financing receivables and the related allowance.

4. Operating Measurement

The University divides its Consolidated Statement of Activities into operating and nonoperating activities. The operating activities of the University include all income and expenses related to carrying out its educational and research mission. Operating revenues include investment income and endowment appreciation utilized to fund current operations, the largest portion of which is the distribution of funds budgeted in accordance with the endowment spending rule.

Nonoperating activities include current year realized and unrealized gains and losses on investments, including realized gain distributions from fund investments, less amounts withdrawn from endowment appreciation to fund operations. Nonoperating activities also include new gifts to permanently restricted endowments, changes in net assets held by CPMC Fund, Inc., changes in perpetual trusts held by others, present value adjustments to split-interest agreements, changes in pension and postretirement obligations, and certain reclassifications.

5. Patient Care Revenue

The University's affiliation agreements with tristate area hospitals generated \$242,710 and \$256,040 of revenue for the years ended June 30, 2011 and 2010, respectively. As of June 30, 2011 and 2010, accounts receivable includes \$75,492 and \$71,817, respectively, relating to these agreements.

Medical faculty practice revenue is reported at the estimated net realizable amounts from patients, third-party payors, and others for services rendered. Medical faculty practice revenues are \$531,623 and \$497,588 for the years ended June 30, 2011 and 2010, respectively. As of June 30, 2011 and 2010, patient accounts receivable amounts to \$67,999 and \$72,783, respectively.

Other areas of patient care, such as medical service agreements, generated \$18,779 and \$18,941 of revenue for the years ended June 30, 2011 and 2010, respectively.

6. Long-Term Investments and Fair Value

The University values its investments in accordance with GAAP and consistent with the FASB official pronouncement on *Fair Value Measurements* for financial assets and liabilities. The pronouncement defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. GAAP establishes a hierarchy of valuation inputs based on the extent to which the inputs are observable in the marketplace. Observable inputs reflect market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the entities own assumptions about how market participants would value an asset or liability based on the best information available. Valuation

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techniques used to measure fair value utilize relevant observable inputs and minimize the use of unobservable inputs.

The University follows a fair value hierarchy based on three levels of inputs, described below:

Fair value for Level 1 is based upon quoted prices in active markets that the University has the ability to access for identical assets and liabilities. Market price data is generally obtained from exchange or dealer markets. The University does not adjust the quoted price for such assets and liabilities.

Fair value for Level 2 is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, or inputs other than quoted prices that are observable.

Fair value for Level 3 is based on valuation techniques that use significant inputs that are unobservable as they are not actively traded.

Investments categorized as Level 2 and Level 3 include the University's ownership in funds that invest in alternative assets (i.e. absolute return strategy funds, private equity funds, and real asset funds) and funds that invest in equity and fixed income strategies. The value of the University's investments in these funds represents the University's ownership interest in the net asset value (NAV) of the respective fund. The University is permitted under GAAP to estimate the fair value of an investment at the measurement date using the NAV reported by the fund without further adjustment, provided the NAV has been calculated in accordance with or in a manner consistent with GAAP, and provided further that the University does not expect to sell the investment at a value other than NAV. The University performs due diligence procedures of its investments including an assessment of applicable accounting policies, a review of the valuation procedures employed, and consideration of redemption features and price transparency.

A financial instrument's categorization within the valuation hierarchy is based upon the lowest level of input that is significant to the fair value measurement. In determining the categorization of the University's investments within the fair value hierarchy, the University has considered market information, including observable net asset values, and the length of time until the investment will become redeemable. Investments which can be redeemed at NAV by the University up to 180 days beyond the measurement date are classified as Level 2. If the redemption period extends beyond 180 days, the investment is categorized as Level 3. The categorization of a financial instrument within the hierarchy is based upon the pricing transparency of that instrument and does not necessarily correspond to the University's perceived risk of that instrument.

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The following tables presents assets and liabilities measured at fair value at June 30, 2011 and at June 30, 2010.

Assets	2011			
	Level 1	Level 2	Level 3	Total
Investments:				
Cash and cash equivalents	\$ 66,297	\$ 280,157		\$ 346,454
Global equities	1,064,826	259,743	\$ 233,854	1,558,423
Fixed income	25,075	541,120	435	566,630
Absolute return strategies		1,258,294	1,026,265	2,284,559
Private equity	43,746		1,877,965	1,921,711
Real assets	5,505		1,217,912	1,223,417
Investments, at fair value	<u>1,205,449</u>	<u>2,339,314</u>	<u>4,356,431</u>	<u>7,901,194</u>
Interest in perpetual trusts held by others			161,256	161,256
Total assets at fair value	<u>\$ 1,205,449</u>	<u>\$ 2,339,314</u>	<u>\$ 4,517,687</u>	<u>\$ 8,062,450</u>
Liabilities				
Swaps payable		39,167		39,167
Total liabilities at fair value		<u>\$ 39,167</u>		<u>\$ 39,167</u>

Assets	2010			
	Level 1	Level 2	Level 3	Total
Investments:				
Cash and cash equivalents	\$ 33,842	\$ 475,348		\$ 509,190
Global equities	790,718	181,733	\$ 207,310	1,179,761
Fixed income	25,511	347,270	523	373,304
Absolute return strategies		844,010	978,375	1,822,385
Private equity	12,877		1,555,071	1,567,948
Real assets	1,543		1,057,796	1,059,339
Investments, at fair value	<u>864,491</u>	<u>1,848,361</u>	<u>3,799,075</u>	<u>6,511,927</u>
Interest in perpetual trusts held by others			136,045	136,045
Total assets at fair value	<u>\$ 864,491</u>	<u>\$ 1,848,361</u>	<u>\$ 3,935,120</u>	<u>\$ 6,647,972</u>
Liabilities				
Swaps payable		48,961		48,961
Total liabilities at fair value		<u>\$ 48,961</u>		<u>\$ 48,961</u>

Cash and cash equivalents

Cash and cash equivalents includes government securities and money market instruments and are valued at amortized cost which approximates fair value.

Global Equities and Fixed Income

Global equities and fixed income consists of investments in publicly traded U.S. and foreign common and preferred equities, funds that invest in equity and fixed income based strategies, and cash held in separate accounts committed to these strategies. The fair value of these investments is

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based on quoted market prices. Investments that are listed on an exchange are valued, in general, at the last reported sale price (or, if there is no sales price, at the last reported bid price, or, in the absence of reported bid prices, at the mean between the last reported bid and asked prices thereof). Fund investments in equity and fixed income based strategies are valued in accordance with valuations provided by the investment managers of the underlying funds. If the University has the ability to redeem from a fund up to 180 days beyond the measurement date at NAV, the investment is categorized as Level 2. If the redemption period extends beyond 180 days, the investment is categorized as Level 3.

Alternative Investments

Alternative investments include interests in absolute return strategy funds, private equity funds, and real asset funds. These private equity funds include large market, leveraged buyout and venture capital based strategies. The University values these investments in accordance with valuations provided by the investment managers of the underlying funds. These funds may make investments in securities that are publicly traded, which are generally valued based on observable market prices, unless a restriction exists. In addition, interests in a private equity fund may be publicly traded and valued based on observable market prices. As a general rule, managers of funds invested in alternative investments value those investments based upon the best information available for a given circumstance and may incorporate assumptions that are the investment manager's best estimates after consideration of a variety of internal and external factors. If no public market exists for the investments, the fair value is determined by the investment manager taking into consideration, among other things, the cost of the investment, prices of recent significant placements of similar investments of the same issuer, and subsequent developments concerning the companies to which the investments relate. The University's management may consider other factors in assessing the fair value of these investments. If the University has the ability to redeem from an absolute return strategy fund up to 180 days beyond the measurement date at NAV, the investment is categorized as Level 2. If the redemption period extends beyond 180 days, the investment is categorized as Level 3. All private equity funds and real asset funds, with the exception of directly-held public securities, are categorized as Level 3 given that the University does not have discretion for timing of withdrawal.

The fair value of the alternative investment funds in the table above represents the amount the University expects to receive at June 30, 2011 and 2010, if it had liquidated its investments in the funds on these dates. The University has performed due diligence around these investments and believes that the NAV of its alternative investments is a reasonable estimate of fair value as of June 30, 2011 and 2010. Alternative investments may allocate a high percentage of their assets in specific sectors of the market in order to achieve a potentially greater investment return. As a result, the investments may be susceptible to economic, political, and regulatory developments in a particular sector of the market, positive or negative, and may experience increased volatility in net asset values.

Absolute return strategies also include separate accounts with direct investments in fixed income (which include mortgage back securities and convertible bonds) and cash committed to these strategies. The fair value of these investments is based on quoted market prices and is categorized as Level 2.

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Perpetual Trusts

The fair value of interest in perpetual trust held by third parties is based on the University's share of the income generated by the trust, ascribed to the fair value of the assets reported by the trust.

Derivatives

Investment fund managers may invest in derivatives, and the value of these positions is reflected in the NAV of the respective funds. Separately, the University employs derivatives primarily to hedge its risks and to rebalance its market exposures. Derivatives used may include futures, swaps, options, and forward contracts and are reflected at fair value following the definition of Level 1 and Level 2 assets as described above. The equity derivatives held directly by the University within the endowment portfolio had a fair value of \$1.6 million and (\$4.3) million at June 30, 2011 and 2010, respectively. As of June 30, 2011 and 2010, the notional amounts of long equity derivative contracts were \$583.9 million and \$446.2 million, respectively, and the notional amounts of short equity derivative contracts were \$434.5 million and \$326.8 million, respectively. The fair value of the equity swaps was \$1.0 million and (\$6.1) million at June 30, 2011 and 2010, respectively. Outside of the endowment portfolio, the University entered into a fixed payor interest rate swap as described in Footnote 16. The estimated fair value of the agreement was (\$39.2) million and (\$49.0) million at June 30, 2011 and 2010, respectively, and is included in "Swaps payable" in the tables above. The derivatives are reflected as a receivable or payable, as appropriate, on the Consolidated Balance Sheet. Unrealized gain or loss from derivative investments is a component of the current year realized and unrealized capital gains (losses) in the Consolidated Statement of Activities.

The methods described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the University believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date.

The following table is a rollforward of the Consolidated Balance Sheet amounts for financial instruments classified by the University within Level 3 of the fair value hierarchy defined above at June 30, 2011 and 2010.

	June 30, 2010	Transfers In/Out	Purchases & Sales, net	Realized gain/loss	Unrealized gain/loss	June 30, 2011
Global equities	\$ 207,310	\$ 416	\$ (1,795)	\$ (3,365)	\$ 31,287	\$ 233,853
Fixed income	523	-	(88)		1	436
Absolute return strategies	978,375	(57,599)	(58,090)	18,454	145,125	1,026,265
Private equity	1,555,071		(159,131)	201,545	280,480	1,877,965
Real assets	1,057,797		(15,413)	93,371	82,157	1,217,912
Total level 3 investments	<u>3,799,076</u>	<u>\$ (57,183)</u>	<u>\$ (234,517)</u>	<u>\$ 310,005</u>	<u>539,050</u>	<u>\$ 4,356,431</u>

	June 30, 2010	Disburse- ments	Realized/ Unrealized gain/loss, net	June 30, 2011
Interest in perpetual trusts held by others	\$ 136,045	\$ (5,137)	\$ 30,348	161,256

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	June 30, 2009	Transfers In/Out	Purchases & Sales, net	Realized gain/loss	Unrealized gain/loss	June 30, 2010
Global equities	\$ 447,771	\$ (161,201)	\$ (159,484)	\$ (3,615)	\$ 83,839	\$ 207,310
Fixed income	247,778	(298,878)	(11,475)		63,098	523
Absolute return strategies	1,447,387	(527,406)	(213,322)	78,842	192,874	978,375
Private equity	1,419,429		(78,089)	65,762	147,969	1,555,071
Real assets	919,519		72,662	22,413	43,202	1,057,796
Total level 3 investments	<u>\$ 4,481,884</u>	<u>\$ (987,485)</u>	<u>\$ (389,708)</u>	<u>\$ 163,402</u>	<u>\$ 530,982</u>	<u>\$ 3,799,075</u>

	June 30, 2009	Disburse- ments	Realized/ Unrealized gain/loss, net	June 30, 2010
Interest in perpetual trusts held by others	\$ 129,818	\$ (6,426)	\$ 12,653	\$ 136,045

All net realized and unrealized gains/(losses) in the tables above are reflected in the Consolidated Statement of Activities. Net unrealized gains/(losses) relate to those financial instruments held by the University at June 30, 2011 and 2010. The University's policy is to recognize transfers in and transfers out as of the end of the period. During the year ended June 30, 2011, there was a transfer of approximately \$(61,733) million from Level 3 to Level 2, due to the criteria described above. During the year ended June 30, 2011, there were no significant transfers between Level 1 and Level 2.

Certain investments in global equities and alternative investments may be subject to restrictions that i) limit the University's ability to withdrawal capital after such investment and ii) limit the amount that may be withdrawn as of a given redemption date. The redemption terms of the University's investments in absolute return strategy funds vary from daily to triennial, with a portion of these investments designated as "illiquid" in "sidepockets" and that portion may not be available for withdrawal until liquidated by the investing fund and redemption notice periods range from 0 days to 180 days. Generally, as noted above, the University has no discretion as to withdrawal with respect to its investment in private equity and real asset funds; distributions are made when sales of assets are made with the funds. The remaining life of these private equity and real asset funds is up to 12 years.

The University is obligated under certain investment fund agreements to advance additional funding up to specified levels over a period several years. These commitments have fixed expiration dates and other termination clauses. At June 30, 2011, the University had unfunded commitments of approximately \$1.2 billion as displayed in the table below.

Asset class \$ in millions	Remaining life	Unfunded Commitments	Timing to draw commitments
Global equities	N/A	\$ 44	1 to 8 years
Absolute return strategies	N/A	91	1 to 5 years
Private equity	1 to 12 years	592	1 to 12 years
Real assets	1 to 12 years	<u>511</u>	1 to 12 years
Total		\$ 1,238	

Management's estimate of the lives of the funds could vary significantly depending on the investment decisions of the external fund managers, changes in the University's portfolio, and other

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circumstances. Furthermore, the University's obligation to fund the commitments noted above may be waived by the fund manager for a variety of reasons including market conditions and/or changes in investment strategy.

The University does have various sources of internal liquidity at its disposal, including cash, cash equivalents, marketable debt and equity securities and lines of credit.

Securities Lending

At June 30, 2011 and 2010, investment securities having a fair value of \$9.4 million and \$4.5 million, respectively, were loaned to various brokerage firms through a securities lending agent. The loaned securities are returnable on demand and are collateralized by cash and cash equivalents. The University recorded the value of the collateral received of \$9.7 million and \$4.6 million and an offsetting liability for the return of the collateral on the Consolidated Balance Sheet at June 30, 2011 and 2010, respectively.

Investment Return

Investment income and gains utilized on the Consolidated Statement of Activities contains interest and dividend income net of fees, institutional real estate revenue net of operating expenses and depreciation, other investment income, and endowment appreciation utilized to fund the spending rule. Endowment appreciation utilized was \$288.4 million and \$319.1 million during 2011 and 2010, respectively. The nonoperating section of the Consolidated Statement of Activities contains realized and unrealized gains reduced by endowment appreciation utilized to fund the spending rule.

7. Endowment Funds

The University's endowment consists of approximately 4,500 separate funds established over many years for a wide variety of purposes. The endowment includes permanent endowments, term endowments, and funds designated by the Board of Trustees to function as endowments. As required by GAAP, net assets associated with endowment funds, including funds designated by the Board of Trustees to function as endowments, are classified and reported based on the existence or absence of donor-imposed restrictions.

The University employs a market value unit method of accounting for pooled general investments. Each participating fund enters and withdraws from the pooled investment account based on monthly unit market values. Changes in the market value of investments are distributed proportionately to each fund that participates in the investment pool. Net investment income distributed during the year is allocated on a per unit basis to each participating fund.

Relevant Law

Under NYPMIFA, the University may appropriate so much of an endowment fund as it deems prudent, considering the specific factors set forth in NYPMIFA and subject to the intent of the donor as expressed in the gift instrument. Unless stated otherwise in the gift instrument, the earnings in an endowment fund are donor-restricted assets until appropriated.

The University continues to classify as permanently restricted net assets (a) the original value of gifts donated to the permanent endowment, (b) the original value of subsequent gifts to the permanent endowment, and (c) realized and unrealized gains and losses to the permanent

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endowment when stipulated by the donor gift instrument. In accordance with NYPMIFA and authoritative guidance, the remaining portion of the donor-restricted endowment funds that is not classified in permanently restricted net assets which had previously been classified as unrestricted net assets is now classified as temporarily restricted net assets. As a result the University has reclassified \$1.7 billion of unrestricted net assets to temporarily restricted net assets. Such amounts relate to accumulated earnings on endowment funds and other funds, including distributions from the endowment unspent due to timing. The full amount of \$1.7 billion is reflected in the consolidated statement of activities as a cumulative effect of a change in accounting principles as of July 1, 2010.

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The composition and changes in the University's endowment net assets as of June 30, 2011 and 2010, are as follows:

	2011			
	Unrestricted Net Assets	Temporarily Restricted Net Assets	Permanently Restricted Net Assets	Total
Changes in University endowment net assets				
Opening balance - June 30, 2010	\$ 4,124,063	\$ 543,658	\$ 1,848,791	\$ 6,516,512
Cumulative Balance Reclass	(1,651,515)	1,651,515		
Investment return:				
Investment income	57,560	363	5,137	63,060
Net appreciation	513,686	869,324	26,189	1,409,199
Total investment return	571,246	869,687	31,326	1,472,259
New gifts	27,108	210	124,177	151,495
Appropriation for expenditure	(374,734)	(21,497)	(5,137)	(401,368)
Other Changes:				
Transfers to create endowments	22,888	12,602	17,109	52,599
Other / Reclassifications	17,883	(17,220)	(2,582)	(1,919)
Release from restriction	179,425	(179,425)	-	-
	220,196	(184,043)	14,527	50,680
Closing balance - June 30, 2011	\$ 2,916,364	\$ 2,859,530	\$ 2,013,684	\$ 7,789,578
University endowment composition				
Endowment funds	\$ -	\$ 2,611,498	\$ 1,823,093	\$ 4,434,591
Funds functioning as endowment:				
Departmental funds	1,253,815	202,630		1,456,445
University funds	1,288,264			1,288,264
Institutional real estate, net	359,162			359,162
CPMC Fund, Inc.	15,123	45,403	29,334	89,860
Interests in perpetual trusts held by others			161,256	161,256
University's endowment value	\$ 2,916,364	\$ 2,859,531	\$ 2,013,683	\$ 7,789,578

Note: The tables above do not include split-interest agreements, net of \$53,304 and pledges receivable, net of \$132,749.

Reconciliation to Investments, at fair value

Investments, at fair value	\$ 7,901,194
Add:	
Interests in perpetual trusts held by others	161,256
CPMC Fund, Inc.	89,860
Institutional real estate, net	359,162
Investment receivables and payables	61,181
Subtract:	
Other long-term investments	(626,725)
Split-interest agreements, net	(107,636)
Funds held on behalf of others	(48,714)
University's endowment value	\$ 7,789,578

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	2010			Total
	Unrestricted Net Assets	Temporarily Restricted Net Assets	Permanently Restricted Net Assets	
Changes in University endowment net assets				
Opening balance - June 30, 2009	\$ 3,666,487	\$ 491,171	\$ 1,735,140	\$ 5,892,798
Investment return:				
Investment income	50,222	482	6,426	57,130
Net appreciation	778,287	83,070	6,227	867,584
Total investment return	828,509	83,552	12,653	924,714
New gifts	23,239	3,129	85,415	111,783
Appropriation for expenditure	(444,781)	(9,128)	(6,426)	(460,335)
Other Changes:				
Transfers to create endowments	46,561	2,419	-	48,980
Other / Reclassifications	(25,026)	1,589	22,009	(1,428)
Release from restriction	29,074	(29,074)	-	-
	50,609	(25,066)	22,009	47,552
Closing balance - June 30, 2010	\$ 4,124,063	\$ 543,658	\$ 1,848,791	\$ 6,516,512
University endowment composition				
Endowment funds	\$ 1,573,241	\$ 326,631	\$ 1,684,390	\$ 3,584,262
Funds functioning as endowment:				
Departmental funds	1,055,560	217,027		1,272,587
University funds	1,099,132			1,099,132
Institutional real estate, net	350,910			350,910
CPMC Fund, Inc.	45,220		28,356	73,576
Interests in perpetual trusts held by others			136,045	136,045
University's endowment value	\$ 4,124,063	\$ 543,658	\$ 1,848,791	\$ 6,516,512

Note: The tables above do not include split-interest agreements, net of \$89,853 and pledges receivable, net of \$147,423.

Reconciliation to Investments, at fair value

Investments, at fair value		\$ 6,511,927
Add:		
Interests in perpetual trusts held by others	136,045	
CPMC Fund, Inc.	73,576	
Institutional real estate, net	350,910	
Investment receivables and payables	74,042	634,573
Subtract:		
Other long-term investments	(451,803)	
Split-interest agreements, net	(141,826)	
Funds held on behalf of others	(36,359)	(629,988)
University's endowment value		\$ 6,516,512

Return Objectives and Risk Parameters

Endowment assets include those assets of donor-restricted funds that the University must hold in perpetuity or for a donor-specified period(s) as well as Board-designated funds. Under the

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University's investment policies, as approved by the Board of Trustees, the endowment assets are invested in a manner that is intended to produce performance which exceeds that of relevant indices for each asset class while assuming a moderate level of investment risk.

Strategies Employed for Achieving Objectives

The University relies on a total return strategy in which investment returns are achieved through both capital appreciation (realized and unrealized) and current yield (interest and dividends). The University targets a diversified asset allocation to achieve its long-term return objectives within prudent risk constraints.

Endowment Spending Rule

The endowment spending rule utilized by the University is designed to be directly responsive to both investment returns and the current level of price inflation. Its long-term objectives are:

- To protect the corpus of the endowment by spending no more than the real investment return;
- To cushion spending against market volatility; and
- To provide specific spending instructions and multiyear spending projections based on explicit future investment return assumptions.

The current endowment spending rule is based on two factors: first, the market value multiplied by a 5 percent target spending rate, which provides a response to investment market conditions; and second, the prior year's spending plus inflation, which ties spending increases to operating needs and cushions spending against market volatility. This allows the University to maintain the purchasing power of the endowment assets held in perpetuity or for a specified term as well as to provide additional real growth through new gifts and investment return.

As a general policy, each fiscal year's distribution is calculated by adding together the following:

- a. The market value of the endowment at a point twelve months prior to the beginning of the given fiscal year, multiplied by the 5 percent target spending rate, multiplied by a 40 percent weighting; and
- b. Endowment spending in the year immediately preceding the given fiscal year, grown or reduced by an inflation factor, which is defined as the Higher Education Price Index ("HEPI"), multiplied by a 60 percent weighting.

The Trustees conduct a special review in any year in which either projected endowment distributions are 0.5 percent higher or lower than the 5 percent target spending rate, or if the increase in endowment distributions over the previous year is more than 3 percentage points higher or lower than HEPI.

For fiscal 2010 and 2011, the Trustees approved a decision to temporarily override the spending rule formula described above in order to begin to absorb the endowment losses experienced in fiscal 2009 earlier than the spending rule formula would allow, given the market lag effect inherent in the formula. The approved plan prescribed an 8 percent decrease of the per share spending rate in fiscal 2010, and a subsequent 5 percent decrease in fiscal 2011.

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In addition to the base spending rate described above, two additional payout components were approved as temporary measures by the Trustees in 2008. The first is an increase in annual spending of up to 1.75 percent of the prior year beginning market value of endowments that are designated for undergraduate financial aid support. This increase began in fiscal 2009 and will be phased out as new endowments substitute for this funding source. The amount of the incremental payout for the coming year is approved annually by the Trustees' Committee on Finance as part of the budget process. The second component is 0.70 percent of the prior year beginning market value for certain endowments in categories key to the University's current development efforts, primarily unrestricted endowment and endowments for financial aid and faculty support.

The appropriation process for fiscal year 2011 occurred prior to the enactment of NYPMIFA on September 17, 2010. Beginning in fiscal year 2012, appropriations under the spending rule will be governed by NYPMIFA, which permits the University to appropriate so much of an endowment fund as it deems prudent following consideration of certain specific factors set forth in NYPMIFA.

8. Accounts Receivable

Accounts receivable, net, consists of the following as of June 30:

	2011	2010
Patient receivables, net of contractual allowances	\$ 106,413	\$ 151,607
Government agencies	121,590	137,089
NewYork-Presbyterian Hospital	67,530	68,015
Patent and licensing	24,799	20,401
Student receivables	15,589	19,642
Other receivables, gross	84,990	87,201
	<u>420,911</u>	<u>483,955</u>
Less: Allowance for doubtful accounts	(53,504)	(92,487)
Accounts receivable, net	<u>\$ 367,407</u>	<u>\$ 391,468</u>

Patient receivables for medical services are net of an allowance for contractual reserves in the amount of \$92.2 million and \$127.4 million at June 30, 2011 and 2010, respectively.

9. Student Loans Receivable and Financial Aid

The University participates in various federal loan programs, in addition to administering institutional loan programs. Loans receivable from students as of June 30 are as follows:

	2011	2010
Government revolving loans	\$ 67,720	\$ 69,108
Institutional loans	23,911	23,016
Gross student loans	<u>91,631</u>	<u>92,124</u>
Less: Allowance for doubtful collections	(3,672)	(3,609)
Student loans receivable, net	<u>\$ 87,959</u>	<u>\$ 88,515</u>

In addition to the loans identified above, the University processes and authorizes loans to students through the Stafford Loan program and Federal Plus Loan program. These loans are not recorded in the University's consolidated financial statement since the University does not guarantee any

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federal loan funds related to these programs. The amount of loans issued under these programs was \$303.5 million and \$268.1 million for the years ended June 30, 2011 and 2010, respectively.

Government revolving loans are funded principally with federal advances to the University under the Perkins Loan Program and certain other programs. Advances under the Perkins Loan Program totaled \$65.5 million and \$64.8 million and advances under the other federally sponsored loan programs are \$13.4 million and \$13.5 million as of June 30, 2011 and 2010, respectively. These advances are classified as liabilities on the Balance Sheet. Interest earned on the revolving and institutional loan programs is reinvested to support additional loans. The repayment and interest rate terms of the institutional loans vary considerably.

Management regularly assesses the adequacy of the allowance for credit losses by performing ongoing evaluation of the student loan and student accounts receivable portfolios.

Loans receivable under federally guaranteed student loan programs are subject to significant restrictions.

Undergraduate financial aid represents packages for all or part of a student's tuition, fees, room, and board. Graduate financial aid represents packages for all or part of a student's tuition and fees. Funding from external sources is obtained through government and private grants and contracts as well as private gifts and payout from certain endowment funds.

	2011			2010		
	University Sources	External Sources	Total Financial Aid	University Sources	External Sources	Total Financial Aid
Undergraduate	\$ 78,911	\$ 42,606	\$ 121,517	\$ 63,870	\$ 46,216	\$ 110,086
Graduate	104,773	55,812	160,585	95,868	54,456	150,324
Total financial aid grants	\$ 183,684	\$ 98,418	\$ 282,102	\$ 159,738	\$ 100,672	\$ 260,410

Agency activities such as tuition aid grants, federal supplemental educational opportunity grants, federal Pell, SMART, and ACG grant program are not included in the University's consolidated financial statements. Receipts from agency transactions were \$13.9 million and \$12.7 million, and disbursements were \$13.9 million and \$12.7 million in fiscal year 2011 and 2010, respectively.

10. Pledges Receivable

Unconditional promises to give appear as pledges receivable and revenue of the appropriate net asset category. Pledges are recorded after recognizing an allowance for uncollectible contributions and a discount to reflect the net present value based on projected cash flows.

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The June 30 balances of unconditional promises to give are:

	2011	2010
Less than one year	\$ 415,825	\$ 102,027
One to five years	386,175	186,781
More than five years	<u>176,551</u>	<u>11,264</u>
Total unconditional promises	978,551	300,072
Less: Allowance for doubtful contributions	(30,156)	(11,350)
Less: Net present-value discount	<u>(65,691)</u>	<u>(25,065)</u>
Net pledges receivable	<u>\$ 882,704</u>	<u>\$ 263,657</u>

New pledges recorded in 2011 and 2010 were discounted at an average annual rate of 2.7 percent and 2.6 percent, respectively, using a rate that considers market and credit risk. Credit risk is also considered in the allowance for doubtful contributions.

Pledges receivable are intended for the following purposes:

	2011	2010
Endowment for educational and general purposes	\$ 132,751	\$ 147,423
New construction and modernization of plant	339,448	22,141
Support of University operations	<u>410,505</u>	<u>94,093</u>
Net pledges receivable	<u>\$ 882,704</u>	<u>\$ 263,657</u>

The University also has other outstanding pledges of \$131.7 million as of June 30, 2011. These pledges represent either conditional gifts for which the probability of meeting the conditions is uncertain, verbal pledges, or other pledges that have not met the requirements for recognition.

11. Land, Buildings, and Equipment

Investments in land, buildings, and equipment, net, consisted of the following at June 30:

	2011			2010		
	Total Assets	Accumulated Depreciation	Net Assets	Total Assets	Accumulated Depreciation	Net Assets
Land	\$ 373,791		\$ 373,791	\$ 317,293		\$ 317,293
Building and building improvements	3,816,927	\$ 1,631,119	2,185,808	3,566,917	\$ 1,495,467	2,071,450
Equipment	<u>326,298</u>	<u>175,679</u>	<u>150,619</u>	<u>305,777</u>	<u>172,250</u>	<u>133,527</u>
	<u>\$ 4,517,016</u>	<u>\$ 1,806,798</u>	<u>\$ 2,710,218</u>	<u>\$ 4,189,987</u>	<u>\$ 1,667,717</u>	<u>\$ 2,522,270</u>

The University uses componentized depreciation to calculate depreciation expense for buildings and building improvements for research facilities included in operations. The costs of research facilities are separated into the building shell, building service systems, and fixed equipment, and each component is separately depreciated.

Equipment includes physical assets owned by the University as well as capitalized software costs and moveable equipment acquired through capitalized leases.

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Building and building improvements include physical assets owned by the University as well as leasehold improvements, capitalized space leases, and construction in progress. Capital space leases at June 30, 2011 and 2010, were \$91.3 million and \$93.8 million, respectively.

12. Accrued Employee Benefit Liabilities

Accrued employee benefit liabilities arise from employment at the University. These include liabilities for pension, postretirement benefits, postemployment benefits, unused vacation, and deferred compensation.

Postemployment benefits relating to workers' compensation, short-term disability, and continuation of medical benefits for those on long-term disability are provided to former or inactive employees after employment but before retirement. The University records the costs of such benefits on an accrual basis if the employee has provided the services from which those benefits are derived. In 2011 and 2010, the University recognized actuarially computed liabilities of \$29.0 million and \$27.0 million, respectively.

13. Pension and Other Postretirement Benefit Costs

Pension Plan Benefits

The University has five non-contributory pension plans (the "pension plans") for supporting staff employees. These plans include defined benefits plans for past service, and in the case of two plans, defined benefit for future service. Four of these pension plans are subject to collective bargaining agreements. The fifth pension plan covers former employees of the Arden Conference Center, which closed in 2005. Two of the non-Arden House pension plans provide defined benefits for service prior to January 1, 1976, in one case, and prior to July 1, 1976, in the other. For these two pension plans, future benefits are provided by defined contribution plans. Charges to expenditures for these defined contribution plans amounted to \$14.3 million and \$8.7 million for the years ended June 30, 2011 and 2010, respectively.

In addition, the University provides retirement benefits for full-time faculty, officers, and certain other employees under a separate defined contribution plan. Charges to expenditures under this pension plan amounted to \$90.1 million and \$86.7 million for the years ended June 30, 2011 and 2010, respectively.

Postretirement Health Care and Life Insurance Benefits

The University provides postretirement health care and life insurance benefits for certain employees. The University accrues the estimated cost of these benefits over the years that employees who are eligible render service.

Obligations and Funded Status

The University adopted authoritative guidance, which requires the recognition on the Balance Sheet of the difference between benefit obligations and any plan assets of the University's defined benefit and other postretirement benefit plans. In addition, the authoritative guidance requires unrecognized amounts (e.g., net actuarial gains or losses and prior service cost or credits) to be recognized as changes to unrestricted net assets and that those amounts be adjusted as they are subsequently recognized as components of net periodic pension cost.

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Amounts recognized in unrestricted net assets are as follows:

	Pension Plan Benefits		Other Postretirement Benefits	
	2011	2010	2011	2010
Net actuarial loss	\$ 38,082	\$ 48,802	\$ 78,091	\$ 117,305
Prior service cost	856	948	(48,020)	(31,447)
Transition obligation				
Total amount recognized	<u>\$ 38,938</u>	<u>\$ 49,750</u>	<u>\$ 30,071</u>	<u>\$ 85,858</u>

The components of accrued benefit costs for pension benefits and other postretirement benefits are as follows:

	Pension Plan Benefits		Other Postretirement Benefits	
	2011	2010	2011	2010
Change in benefit obligation:				
Benefit obligation, beginning of year	\$ 115,968	\$ 94,543	\$ 202,146	\$ 171,807
Service cost	3,718	2,784	7,004	7,143
Interest cost	6,330	6,188	10,239	11,640
Plan participants' Contributions	-	-	4,054	3,573
Actuarial (gain) loss	(3,027)	16,935	(16,030)	45,117
Plan amendments	-	-	(23,149)	(26,848)
Assumption Changes	(119)	380	-	-
Net disbursements and transfers	<u>(5,268)</u>	<u>(4,862)</u>	<u>(11,810)</u>	<u>(10,286)</u>
Benefit obligation, end of year	<u>\$ 117,602</u>	<u>\$ 115,968</u>	<u>\$ 172,454</u>	<u>\$ 202,146</u>
Change in plan assets:				
Fair value of assets, beginning of year	\$ 77,000	\$ 67,844	\$ 92,963	\$ 78,796
Actual return on plan assets	10,605	10,944	21,982	9,115
Employer contributions	8,237	3,074	15,096	12,404
Plan participants' contributions	-	-	4,054	3,573
Net disbursements and transfers	<u>(5,019)</u>	<u>(4,862)</u>	<u>(12,187)</u>	<u>(10,925)</u>
Fair value of assets, end of year	<u>\$ 90,823</u>	<u>\$ 77,000</u>	<u>\$ 121,908</u>	<u>\$ 92,963</u>
Net amount recognized	\$ (26,779)	\$ (38,968)	\$ (50,546)	\$ (109,183)

	2011	2010
Weighted-average assumptions used to determine end of year benefit obligation		
Discount rate	4.75% to 5.7%	4.6% to 5.5%
Rate of compensation increase	1.9% to 4.25%	3.5% to 4.25%

The accumulated benefit obligations for the pension plans at June 30, 2011 and 2010 were \$105.8 and \$103.7 million, respectively.

At the end of 2011 and 2010, the projected benefit obligation and accumulated benefit obligation exceeded pension plan assets for three of the five plans.

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The projected benefit obligation for the pension plans with a benefit obligation in excess of plan assets were as follows:

	2011	2010
End of year		
Projected benefit obligation	\$ 105,338	\$ 112,426
Fair value of plan assets	77,293	72,791

The accumulated postretirement benefit obligation for the other postretirement benefit plan and the fair value of plan assets with an accumulated postretirement benefit obligation in excess of plan assets was as follows:

	2011	2010
End of year		
Accumulated postretirement benefit obligation	\$ 172,454	\$ 202,146
Fair value of plan assets	121,908	92,963

An 8 percent annual rate of increase in the per capita cost of covered health care benefits for the other postretirement benefit plan was assumed for 2012. The rate was assumed to decrease gradually to 5 percent for 2017 and remain at that level thereafter. Assumed health care cost trend rates have a significant effect on the amounts reported for the health care plans. A one-percentage-point change in assumed health care cost trend rates would have the following effect:

	increase	decrease
Effect on accumulated postretirement benefit obligation	\$ 20,715	\$ (16,825)

The asset allocation for the two defined benefit plans for both past and future service at June 30, 2011 and 2010, and the target allocation for 2012, by asset category, follows:

Asset category	Target allocation	Percentage of plan assets at year's end	
	2012	2011	2010
U.S. large cap equity	20%	22%	20%
International equities	15%	15%	15%
High yield fixed income securities	15%	15%	16%
U.S. core fixed income	50%	48%	49%
	<u>100%</u>	<u>100%</u>	<u>100%</u>

The asset allocation for the two defined benefit plans for prior service only at June 30, 2011 and 2010, and the target allocation for 2012, by asset category, follows:

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Asset category	Target allocation	Percentage of plan assets at year's end	
	2012	2011	2010
U.S. large cap equity	10%	10%	10%
International equities	5%	5%	5%
High yield fixed income securities	5%	5%	5%
U.S. core fixed income	80%	80%	80%
	<u>100%</u>	<u>100%</u>	<u>100%</u>

The retirement plan for the employees of Arden Conference Center was invested in equity securities, including mutual funds, 26 percent, and debt securities, 74 percent.

The following presents investments of the pension plan as of June 30, 2011. The Plans' investments in common collective trusts and mutual funds are included as Level 2 because fair value is based on quoted prices for similar instruments or other observable inputs. Level 3 assets represent fixed income related investment contracts with a major life insurance company.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Common collective trust funds				
Global equity		29,547		29,547
Fixed income		58,455		58,455
Mutual funds		733		733
Fixed income investment contracts			2,088	2,088
Investments, at fair value	<u>\$ -</u>	<u>\$ 88,735</u>	<u>\$ 2,088</u>	<u>\$ 90,823</u>

The following table is a rollforward of the amounts for investments classified within Level 3 as described above.

	June 30, 2010	Purchases & Sales, net	Investment gain/(loss)	June 30, 2011
Investment contracts	\$ 1,962	\$ -	\$ 126	\$ 2,088
Total level 3 investments	<u>\$ 1,962</u>	<u>\$ -</u>	<u>\$ 126</u>	<u>\$ 2,088</u>

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The following presents investments of the pension plans as of June 30, 2010.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Common collective trust funds				
Global equity		23,494		23,494
Fixed income		50,934		50,934
Mutual funds		610		610
Fixed income investment contracts			1,962	1,962
Investments, at fair value	<u>\$ -</u>	<u>\$ 75,038</u>	<u>\$ 1,962</u>	<u>\$ 77,000</u>

The following table is a rollforward of the amounts for investments classified within Level 3 as described above.

	<u>June 30, 2009</u>	<u>Purchases & Sales, net</u>	<u>Investment gain/(loss)</u>	<u>June 30, 2010</u>
Investment contracts	<u>\$ 1,967</u>	<u>\$ (139)</u>	<u>\$ 134</u>	<u>\$ 1,962</u>
Total level 3 investments	<u>\$ 1,967</u>	<u>\$ (139)</u>	<u>\$ 134</u>	<u>\$ 1,962</u>

The asset allocation for the other postretirement benefit plan at June 30, 2011 and 2010, and the target allocation for 2012, by asset category, follows:

Asset category	Target allocation 2012	Percentage of plan assets at year's end 2011	2010
U.S. large cap equity	60%	59%	58%
International equity	15%	16%	16%
U.S. fixed income	25%	25%	26%
	<u>100%</u>	<u>100%</u>	<u>100%</u>

The following presents investments of the other postretirement benefit plan as of June 30, 2011. The Plans' investments in common collective trusts are included as Level 2 because the fair value is based on quoted prices for similar instruments or other observable inputs.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Common collective trust funds				
Global Equity	\$ -	\$ 91,966	\$ -	\$ 91,966
Fixed Income		29,942		29,942
Investments, at fair value	<u>\$ -</u>	<u>\$ 121,908</u>	<u>\$ -</u>	<u>\$ 121,908</u>

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The following presents investments of the other postretirement benefit plan as of June 30, 2010.

	<u>Level 1</u>	<u>Level 2</u>	<u>Level 3</u>	<u>Total</u>
Common collective trust funds				
Global Equity	\$ -	\$ 68,987	\$ -	\$ 68,987
Fixed Income		23,976		23,976
Investments, at fair value	<u>\$ -</u>	<u>\$ 92,963</u>	<u>\$ -</u>	<u>\$ 92,963</u>

Net Periodic Pension Cost

The components of net periodic benefit cost for pension benefits and other postretirement benefits are as follows:

	Pension Plan Benefits		Other Postretirement Benefits	
	2011	2010	2011	2010
Components of net periodic benefit cost				
Service cost	\$ 3,718	\$ 2,784	\$ 7,004	\$ 7,143
Interest cost on projected benefit obligation	6,330	6,188	10,239	11,640
Expected return on assets	(5,514)	(6,222)	(7,177)	(6,956)
Amortization of transition obligation	-	-	-	-
Amortization of prior service cost	93	93	(6,577)	(4,160)
Amortization of unrecognized net losses	2,234	741	7,706	7,429
Net periodic benefit cost	<u>6,861</u>	<u>3,584</u>	<u>11,195</u>	<u>15,096</u>
Other changes in plan assets and benefit obligations recognized in the Consolidated Statement of Activities				
Current year actuarial (gain)/loss	(8,485)	12,593	(31,509)	43,339
Amortization of actuarial gain/(loss)	(2,234)	(741)	(7,706)	(7,429)
Current year prior service (credit)/cost	-	-	(23,149)	(26,848)
Amortization of prior service credit/(cost)	(93)	(93)	6,577	4,160
Amortization of transition asset/(obligation)	-	-	-	-
Total recognized in nonoperating	<u>(10,812)</u>	<u>11,759</u>	<u>(55,787)</u>	<u>13,222</u>
Total recognized in net periodic benefit cost and nonoperating	<u>\$ (3,951)</u>	<u>\$ 15,343</u>	<u>\$ (44,592)</u>	<u>\$ 28,318</u>

	Pension Plan Benefits	Other Postretirement Benefits
Amounts in net unrestricted assets expected to be recognized in net periodic pension cost in fiscal 2012		
Actuarial (gain)/loss	\$ 2,002	\$ 5,435
Prior service (credit)/cost	93	(10,824)
	<u>\$ 2,095</u>	<u>\$ (5,389)</u>

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	2011	2010
Weighted-average assumptions used to determine net periodic pension cost		
Discount rate	4.6% to 5.5%	6.0% to 6.55%
Expected return on plan assets	5% to 6.5%	6.25% to 7.5%
Rate of compensation increase	1.9% to 4.25%	3.5% to 4.25%

To arrive at assumptions for expected long term rates of return on asset in the pension plan and the postretirement benefit plan, the University considered historical returns and future expectations for returns in each asset class in the asset allocation for the previously described pension and postretirement benefit portfolios.

Assumed health care cost trend rates have a significant effect on the amounts reported for the other postretirement benefit plan. A one-percentage-point change in the assumed health care cost trend rates would have had the following effect:

	1%-point increase	1%-point decrease
Effect on total service and interest cost	\$ 2,445	\$ (1,901)

Expected Cash Flows

Information about the expected cash flows for the plans is as follows:

	Pension Benefits	Other Postretirement Pension Benefits
University contributions:		
2012 (expected)	\$ 12,342	\$ 11,195
Expected benefit payments:		
2012	5,392	9,038
2013	5,599	9,495
2014	5,827	9,841
2015	6,069	10,034
2016	6,317	10,110
2017-2021	36,187	48,741
Total	<u>\$ 65,391</u>	<u>\$ 97,259</u>

Total benefits expected to be paid include both the University's share of the benefit cost and the participants' share of the cost, which is funded by participant contributions to the other postretirement benefit plan. The University receives a Medicare Part D subsidy from the federal government as reimbursement for certain retiree health benefits paid to plan participants.

14. Lease Obligations

The University is the lessee of various equipment and space under noncancelable operating and capital leases. Capital lease obligations at June 30, 2011 and 2010, were \$114.8 million and \$116.1 million, respectively. Operating lease rental expense for the years ended June 30, 2011 and 2010, were approximately \$33.0 million and \$26.7 million, respectively. Space leases contained

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customary escalation clauses, which are included in annual aggregate minimum rentals.

Future aggregate minimum rental payments under operating and capital leases are as follows:

Future minimum rental payments:	Operating	Capital
2012	\$ 30,762	\$ 7,335
2013	20,544	6,643
2014	14,292	5,552
2015	12,524	4,836
2016	7,760	4,742
Thereafter	71,572	259,079
Less: Interest at 2.54 percent to 5.31 percent		(173,431)
Capital lease obligations at June 30, 2011		<u>\$ 114,756</u>

15. Conditional Asset Retirement Obligations

Conditional asset retirement obligations are a legal obligation to perform an asset retirement activity in which the timing and/or method of settlement are conditional on a future event that may or may not be within the control of the entity. Uncertainty with respect to the timing and/or method of settlement of the asset retirement obligation does not defer recognition of a liability. GAAP requires that the fair value of a liability for a conditional asset retirement obligation be recognized in the period in which it occurred if a reasonable estimate of fair value can be made.

Conditional asset retirement obligations related to remediation or disposal of asbestos, underground storage tanks, soil, and radioactive sources and equipment were \$105.3 million and \$105.0 million at June 30, 2011 and 2010, respectively.

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16. Bonds and Notes Payable

Bonds and notes payable outstanding at June 30, 2011 and 2010, are as follows:

	2011	2010
Dormitory Authority of the State of New York, tax exempt revenue bonds, Columbia University issues		
Series 2011 A, 3.00% to 5.00%, maturing 2042	\$ 300,000	\$ -
Series 2009 A, variable rate, 0.04% to 0.27%, maturing 2039	117,000	117,000
Series 2008 A, 4.00% to 5.00%, maturing 2038	282,715	282,715
Series 2006 A, 4.75% to 5.25%, maturing 2031	203,220	209,070
Series 2006 B, 3.50% to 5.25%, maturing 2022	143,265	146,735
Series 2004 A2, 5.00%, maturing 2014	35,380	46,500
Series 2004 B, 4.75% to 5.125%, maturing 2024	75,345	79,625
Series 2004 C, 5.00%, maturing 2029	48,270	48,270
Series 2003 A, 3.50% to 5.125%, maturing 2024	63,120	66,615
Series 2003 B, variable rate, 0.04% to 0.26%, maturing 2028	30,000	30,000
Series 2002 A, 5.25%, maturing 2014	15,485	20,145
Series 2002 B, 5.00% to 5.25%, maturing 2024	30,260	33,910
Series 2002 C, variable rate, 0.13% to 0.29%, maturing 2027	23,300	23,300
Series 2000 A, 5.00% to 5.25%, maturing 2025	-	35,060
	<u>1,367,360</u>	<u>1,138,945</u>
Dormitory Authority of the State of New York, tax-exempt commercial paper		
Series 1997, variable rate, 0.13% to 0.30, final maturity 2015	19,095	24,575
New Jersey Economic Development Corporation		
Series 2002, variable rate, 0.17% to 0.28%, final maturity 2028	7,890	8,240
Medium-Term Notes, Taxable Series C 6.53% to 7.36%, maturing 2022	115,299	127,829
Empire State Development Corporation Issues:		
Interest-free, maturing 2029	8,012	8,203
Interest-free, maturing 2015	8,100	8,100
Economic Development Corporation		
Interest-free, maturing 2015	10,000	10,000
Dormitory Authority of the State of New York College and University Education Loan Revenue Bonds		
Series 1993, 5.60% to 5.65%, maturing 2013	1,834	2,226
Series 1992, 6.80%, maturing 2013	1,570	2,015
Promissory Note, 8%, maturing 2010	-	3,000
	<u>171,800</u>	<u>194,188</u>
Total bonds and notes payable	<u>\$ 1,539,160</u>	<u>\$ 1,333,133</u>

The Trustees of Columbia University in the City of New York
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Estimated principal payments on bonds and certificates are summarized below:

Year	Principal
2012	\$ 61,984
2013	148,689
2014	65,567
2015	62,594
2016	60,008
Thereafter (through 2042)	<u>1,140,318</u>
Total	<u>\$ 1,539,160</u>

At June 30, 2011, the University's bonds and notes payable had a carrying amount of approximately \$1,539.2 million, compared to an estimated fair value of \$1,652.1 million. The estimated fair value of bonds and notes payable was calculated using a discounted cash flow method, where the estimated cash flows were based on contractual principal and interest payments. The discount rates used were based on the University's borrowing rate for similar obligations. Fair values represent the lower of the estimated value at call or maturity of each respective issue.

The University may offer from time to time up to \$400 million aggregate principal amount of Medium-Term Notes. As of June 30, 2011, \$115.3 million was outstanding. The University also has a \$150 million taxable commercial paper program. As of June 30, 2011, none of the taxable commercial paper was outstanding.

As of June 30, 2011, the University had a \$100 million operating line of credit, which expires in December, 2014. Additionally, as of June 30, 2011, the University had two \$100 million standby lines of credit supporting self-liquidity for variable rate debt outstanding, one of which expires in May, 2014. The other expired in July, 2011 and was replaced subsequent to year end with a new \$100 million line of credit expiring in July, 2014. Each of the lines is with a different lending institution and, as of June 30, 2011, no balances were outstanding on the lines of credit.

The University issues most of its tax-exempt debt through the Dormitory Authority of the State of New York ("DASNY"). On February 16, 2011, the University issued \$300 million of Series 2011A fixed rate bonds. Series 2011A was issued at a premium of \$12.1 million, which will be amortized over 10 years. The University chose to redeem the outstanding Series 2000A bonds totaling \$30.96 million with a call date of July 1, 2011.

On October 1, 2008, the University entered into a \$200 million notional value forward starting, fixed payor swap agreement to protect against the risk of interest rate changes. The estimated fair value of the liability was (\$39.2) million and (\$49.0) million at June 30, 2011 and 2010, respectively. The fair value of the swap is obtained by taking the present value of all future cash flows on the swap implied by the forward curve.

The University has certain financial and administrative covenants with which it was in compliance as of June 30, 2011 and 2010.

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17. Insurance

In connection with managing financial risks through various third-party insurance programs, the University is self-insured in certain areas. Funded self-insurance liabilities primarily cover deductibles on general liability and property insurance claims. Self-insurance liabilities are actuarially calculated on an annual basis. The University has recorded self-insurance liabilities of approximately \$121.3 million and \$111.9 million as of June 30, 2011 and 2010, respectively. The University's core liability coverage is purchased through Pinnacle RRG, a Vermont-based risk retention group with fifteen other universities.

The University obtains medical malpractice insurance through MCIC and MLMIC. MCIC is a group-captive insurance company owned by the University, Johns Hopkins, Yale, Rochester, and Weill Cornell Medical School and their respective major teaching hospitals, including NYPH. MLMIC is a mutual company where policyholders are owners, with full voting rights to elect the company's Board of Directors, thereby having direct input into vital areas of operation. The governing Board is comprised primarily of practicing physicians, dentists, and hospital administrators. More than 990 of the University's faculty physicians and dentists are enrolled in MCIC or MLMIC.

18. Related Party Transactions

The University maintains several clinical and education affiliation agreements with other organizations. Revenues and expenses from these agreements are accounted for in the operating activities segment of the Consolidated Statement of Activities. The most significant affiliation agreement is with NYPH.

The University has an alliance dating back to 1921 with Presbyterian Hospital, which merged with New York Hospital effective January 1, 1998, and formed the new corporate entity called NewYork-Presbyterian Hospital. The University provides NYPH with medical, professional, and supervisory staff as well as other technical assistance. These services are reimbursed by NYPH. NYPH provides funding to the clinical departments for specific purposes, including administration, supervision, and teaching of the NYPH resident staff and salary support for faculty and staff providing services to NYPH. In addition, NYPH provides funding for clinical programs that the University and NYPH would like to see developed or expanded. NYPH also provides the departments with certain facilities and services (outpatient faculty practice offices, nursing, telecommunications, etc.) for which the University is invoiced on a monthly basis. Finally, the University and NYPH collaborate and fund joint projects for which specific agreements are negotiated.

The University and NYPH negotiated a joint budget, which forms the basis for the reimbursement agreement. The fiscal year 2011 joint budget was approximately \$188 million. The payments to NYPH for goods and services were \$75 million. The majority of revenues received pursuant to this reimbursement arrangement for services rendered are reflected in the consolidated financial statements as a portion of "Patient care revenue." In addition, the majority of the expenses related to this agreement are reflected in "Patient care expense."

The University records both receivables from and payables to NYPH on the Consolidated Balance Sheet. The University has no liability for obligations and debt incurred by NYPH.

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The University has financial arrangements with several for-profit physician professional corporations (“PCs”), whereby the University provides facilities and other services to these PCs for a negotiated fee. These PCs provide clinical services to patients and are owned and controlled by physicians who are also faculty members of the University. These non-controlled PCs generated revenue of approximately \$75 million and \$73 million during fiscal year 2011 and 2010, respectively, which has not been consolidated into the University’s consolidated financial statements. The University is also the sole corporate member of two not-for-profit practice entities and a for-profit professional corporation and as such, consolidates these entities into the University’s consolidated financial statements.

The Trustees of the CPMC Fund, Inc. approved the transfer of two endowments to NYPH, in June 2010, and CPMC Fund, Inc. recorded a payable to NYPH of \$3.4 million, with \$.5 million being permanently restricted. The funds were transferred to NYPH during fiscal year 2011. In addition, the CPMC Fund, Inc. transferred three endowments to the University. The value of the endowments at the time of transfer was \$12.7 million, with \$3.1 million being permanently restricted.

19. Contingencies and Commitments

From time to time, various claims and suits generally incident to the conduct of normal business are pending or may arise against the University.

In the opinion of counsel and management of the University, after taking into account insurance coverage, losses, if any, from the resolution of pending litigation should not have a material effect on the University’s financial position or results of operations.

All funds expended in connection with government grants and contracts are subject to audit by government agencies. While the ultimate liability, if any, from audits of government grants and contracts by government agencies, claims, and suits is presently not determinable, it should not, in the opinion of counsel and management, have a material effect on the University’s financial position or results of activities.

The University is subject to laws and regulations concerning environmental remediation and will, from time to time, establish reserves for potential obligations that management considers probable and for which reasonable estimates can be made. As of June 30, 2011, the University has recorded \$105.3 million for conditional asset retirement obligations. These estimates may change depending upon the nature and extent of contamination, appropriate remediation technologies, and regulatory approvals. The University is not aware of any existing conditions that it currently believes are likely to have a material adverse effect on the University’s financial position, changes in net assets, or cash flows.

The University's capital improvement program and related commitments includes projects that address the major strategic objectives of the University. As part of the capital improvement program, the University has entered into contracts to purchase properties with an aggregate value of \$44.9 million. As of June 30, 2011 approximately \$34.3 million is still outstanding.

The University has made commitments related to its expansion in Manhattanville, certain of which are based upon events in the future which would result in cash and in-kind payments from the University.

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The University offered a loan program for students and families to pay tuition, fees and other costs. Loans were issued by a private lending institution and are guaranteed by the University. Upon default by the borrower, the University is required to pay all or a portion of the outstanding loan balance. The amount guaranteed is \$5.0 million at June 30, 2011.

The University has performed an evaluation of subsequent events through October 21, 2011, which is the date the consolidated financial statements were available to be issued.

20. Expense Allocation by Program

Expenses are reported for the University's primary program activities. The consolidated financial statements also report certain categories of expenditures that support more than one major program of the University. These expenses include operation and maintenance of plant, depreciation expense, and interest expense.

These costs are allocated to the applicable program activities as indicated in the following chart:

	2011			2010		
	Expenses per Statement of Activities	Allocation	Final Allocated Expenses	Expenses per Statement of Activities	Allocation	Final Allocated Expenses
Instruction and educational administration	\$ 1,188,959	\$ 220,900	\$ 1,409,859	\$ 1,131,676	\$ 205,755	\$ 1,337,431
Research	559,431	94,223	653,654	522,668	89,700	612,368
Patient care expense	719,723	34,460	754,183	704,363	21,786	726,149
Library	61,284	55,945	117,229	60,307	50,698	111,005
Operation and maintenance of plant	214,109	(214,109)		187,857	(187,857)	
Institutional support	213,015	28,626	241,641	203,575	26,315	229,890
Auxiliary enterprise	93,914	14,105	108,019	89,382	13,983	103,365
Depreciation expense	175,248	(175,248)		165,794	(165,794)	
Interest expense	59,086	(59,086)		54,790	(54,790)	
Other	30,046	184	30,230	38,076	204	38,280
	<u>\$ 3,314,815</u>		<u>\$ 3,314,815</u>	<u>\$ 3,158,488</u>		<u>\$ 3,158,488</u>

The allocation of operation and maintenance of plant is based on square footage occupancy with the exception of certain rent costs directly attributable to patient care expense. Depreciation expense includes depreciation of buildings and building improvements and equipment. The allocation of depreciation on buildings and building improvements is based on square footage occupancy. Depreciation on equipment is allocated to the programs for which the equipment was purchased. Interest expense is allocated according to the same methodologies used for building depreciation.

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R&D Cluster

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
RESEARCH & DEVELOPMENT CLUSTER				
Department of Health & Human Services				
Direct Awards				
Center for Disease Control				
TUBERCULOSIS EPIDEMIOLOGIC STUDIES CONSORTIUM (T.O. 1)	93.000	CDC 200-2001-00076/0		\$ 521,033
TUBERCULOSIS TRIALS CONSORTIUM	93.000	CDC 200-2009-32593		336,708
SAFETY OF KEY INHALED AND INTRAVENOUS DRUGS IN PEDIATRICS (SAFEKIDS) INITIATIVE	93.000	HHSF 223200810036C		201,042
EVALUATION OF NEW INTERFERON Y RELEASE ASSAYS IN THE DIAGNOSIS OF LATENT TUBERCULOSIS INFECTION IN HEALTHCARE WORKERS:18	93.000	CDC 200200100076/001		178,546
TO28: TREATMENT PRACTICES, OUTCOMES AND COST OF MULTIDRUG-RESISTANT (MDR TB) AND EXTENSIVELY DRUG RESISTANT TUBERCULOSIS	93.000	CDC20020010007663478		89,373
NATIONAL STUDY OF DETERMINANTS OF EARLY DIAGNOSIS, PREVENTION, AND TREATMENT OF TB IN THE AFRICAN-AMERICAN COMMUNITY	93.000	CDC20020010007641287		83,075
TUBERCULOSIS MORTALITY IN THE UNITED STATES:EPIDEMIOLOGY AND PREVENTION OPPORTUNITIES TASK ORDER 25	93.000	CDC20020010007663568		65,187
IMPROVING TESTING FOR TB AND LTBI FOR PERSONS WITH HIV AT HRSA TITLE III-FUNDED CLINICS (TBESC TASK ORDER 29)	93.000	CDC 200-2001-00076/0		34,704
MENTAL HEALTH CONSEQUENCES OF THE U.S. ECONOMIC DOWNTURN: WHAT DO WE KNOW AND WHAT CAN BE DONE?	93.000	HHSP233200900241A		30,013
				1,539,681
Innovations in Applied Public Health Research				
A STUDY OF AN EHR TO TRANSLATE PUBLIC HEALTH PRACTICES	93.061	5 R18 HK000057-03		127,933
LATE 20TH-CENTURY CONSUMER ADVOCACY AND THE SHAPING OF PUBLIC HEALTH POLICY AND PRACTICE	93.061	1 R36 CD000985-01		8,277
EMERGENCE OF DISPARITIES IN US MORTALITY: A FOCUS ON PREVENTION AND TREATMENT	93.061	1 R36 SH000004-01		4,759
				140,969
Food and Drug Administration_Research				
HIGH-T SUSCEPTOMETER TO MONITOR TRANSFUSIONAL IRON OVERLOAD (NSR DEVICE)	93.103	1 R01 FD003702-01		355,360
TREATMENT OF HYPOPARATHYROIDISM WITH PARATHYROID HORMONE	93.103	5 R01 FD-002525-05		313,900
PHASE II TRIAL TIOPRONIN ANEURYSMAL SUBARACHNOID HEMORRHAGE	93.103	5 R01 FD003728-02		225,834
HIGH-T SUSCEPTOMETER TO MONITOR TRANSFUSIONAL IRON OVERLOAD (NSR DEVICE)	93.103	5 R01 FD003702-02		29,751
				924,845
Maternal and Child Health Federal Consolidated Programs				
TEXTFLUENZA: USING TECHNOLOGY TO PROMOTE FLU VACCINATION IN UNDERSERVED MATERNAL AND CHILD POPULATIONS	93.110	1 R40 MC17169-01-00		119,904
TEXTFLUENZA: USING TECHNOLOGY TO PROMOTE FLU VACCINATION IN UNDERSERVED MATERNAL AND CHILD POPULATIONS	93.110	5 R40 MC17169-02-00		116,350
TEXT 4 HEALTH: THE USE OF TEXT MESSAGE REMINDER-RECALLS TO COUNTER DISPARITIES IN ADOLESCENT IMMUNIZATION COVERAGE	93.110	5 R40MC08961-02-01		27,140
TRAINING CED/COR PEDIATRIC AND CHILD PSYCHIATRY - COLLABORATIVE OFFICE ROUNDS IN PEDIATRIC AMBULATORY CARE NETWORK	93.110	T20MC07470-05-00		12,369
				275,763
Emergency Medical Services for Children				
EMSC NETWORK DEVELOPMENT DEMONSTRATION PROJECT (NDDP)	93.127	6 U03 MC00007-10-02		622,928
EMSC NETWORK DEVELOPMENT DEMONSTRATION PROJECT (NDDP)	93.127	5 U03 MC00007-09-02		451,198
				1,074,126

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Grants to Increase Organ Donations				
CLINICAL INTERVENTIONS TO INCREASE ORGAN PROCUREMENT	93.134	5 R38OT10588-03-01		305,766
				305,766
Centers for Research and Demonstration for Health Promotion and Disease Prevention				
CATEGORY I: TECHNOLOGY AND COMMUNITY-BASED APPROACHES TO IMPROVE HEALTH IN HARLEM	93.135	5 U48 DP001916-02		622,980
CATEGORY I: TECHNOLOGY AND COMMUNITY-BASED APPROACHES TO IMPROVE HEALTH IN HARLEM	93.135	1 U48 DP001916-01		204,824
INCIDENCE AND PROGNOSIS OF EPILEPSY IN HARLEM, NY (SIP 09-013)	93.135	5 U48 DP001916-02	S1	166,542
PARTNERSHIP FOR INTERDISCIPLINARY HEALTH SYSTEMS CAPACITY, EVALUATION AND SUPPORT - PISCES (SIP 10-038)	93.135	5 U48 DP001916-02	S4	87,041
CDC SIP GRANT ON COMMUNITY CELLS & CIRCLES FOR PH MESSAGING (SIP 09-024)	93.135	1 U48 DP001916-01	S2	69,385
A COST ANALYSIS OF A FAMILY BASED HYPERTENSION INTERVENTION (SIP 09-021)	93.135	5 U48 DP001916-02	S3	64,225
INCIDENCE AND PROGNOSIS OF EPILEPSY IN HARLEM, NY (SIP 09-013)	93.135	1 U48 DP001916-01	S1	42,510
A COST ANALYSIS OF A FAMILY BASED HYPERTENSION INTERVENTION (SIP 09-021)	93.135	1 U48 DP001916-01	S3	19,125
				1,276,632
Injury Prevention and Control Research and State and Community Based Programs				
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-05		246,439
CHILD PEDESTRIAN INJURIES AND BUILD URBAN ENVIRONMENTAL EVALUATION OF A SAFE ROUTE	93.136	1 R21 CE001816-01		98,837
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-05	SC1	62,202
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-05	SC2	55,441
				462,919
AIDS Education and Training Centers				
NEW YORK/NEW JERSEY AIDS EDUCATION AND TRAINING CENTER	93.145	6 H4AHA00071-09-02		2,839,227
INCI NEW YORK (NEPI)	93.145	6 U92 HA12772-02-05	NE	541,886
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: NY CORE	93.145	6 U92 HA12772-02-03		491,745
INCI SOUTH AFRICA (COP)	93.145	6 U92 HA12772-02-05	S3	321,238
INCI ETHIOPIA (COP)	93.145	6 U92 HA12772-02-05	S5	215,697
INCI SWAZILAND (COP)	93.145	6 U92 HA12772-02-05	S4	127,470
NEPI - NEW YORK	93.145	6 U92 HA12772-03-01	NE	114,548
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: NY CORE	93.145	6 U92 HA12772-03-01		42,635
GLOBAL HIV/AIDS NURSING INITIATIVE: SA CORE	93.145	6 U92 HA12772-02-03	SA	40,553
INCI SOUTH AFRICA (NEPI)	93.145	6 U92 HA12772-02-05	S6	36,551
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: RWANDA CORE	93.145	6 U92 HA12772-02-03	S1	36,250
GLOBAL HIV/AIDS NURSING INITIATIVE: SA CORE	93.145	6 U92 HA12772-01-04	SA	27,547
INCI NEW YORK (COP)	93.145	6 U92 HA12772-02-05	S2	24,832
INCI LESOTHO (NEPI)	93.145	6 U92 HA12772-02-05	S7	23,053
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: ETHIOPIA CORE	93.145	5 U92 HA12772-02-01	ET	21,087
INCI ZAMBIA (NEPI)	93.145	6 U92 HA12772-02-05	S8	20,862
INCI NEW YORK (COP)	93.145	5 U92 HA12772-03-00	S2	17,470

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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R&D Cluster, continued

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GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: LESOTHO CORE	93.145	6 U92 HA12772-02-03 LS		17,264
NEPI - MALAWI	93.145	6 U92 HA12772-03-01 S9		16,222
NEPI - LESOTHO	93.145	6 U92 HA12772-03-01 S7		14,124
INCI MALAWI (NEPI)	93.145	6 U92 HA12772-02-05 S9		12,837
NEPI - ZAMBIA	93.145	6 U92 HA12772-03-01 S8		12,040
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: SWAZILAND CORE	93.145	6 U92 HA12772-01-04 SW		8,003
INCI SWAZILAND (COP)	93.145	5 U92 HA12772-03-00 S4		6,953
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: RWANDA CORE	93.145	5 U92 HA12772-03-00 S1		3,404
NEPI - SOUTH AFRICA	93.145	6 U92 HA12772-03-01 S6		3,255
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: ETHIOPIA CORE	93.145	5 U92 HA12772-03-00 ET		1,178
NEW YORK/NEW JERSEY AIDS EDUCATION AND TRAINING CENTER	93.145	6 H4AHA00071-06-04		558
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: RWANDA CORE	93.145	6 U92 HA12772-01-04 S1		-972
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: NY CORE	93.145	6 U92 HA12772-01-04		-6,285
				<u>5,031,232</u>
Immunization Research, Demonstration, Public Information and Education_Training and Clinical Skills Improvement Projects				
TEXT 4 HEALTH-KIDS: TEXT MESSAGE REMINDER-RECALLS FOR EARLY CHILDHOOD VACCINATION	93.185	1 U01IP000313-01		85,652
				<u>85,652</u>
National Research Service Award in Primary Care Medicine				
NRSA FOR PRIMARY MEDICAL CARE	93.186	5 T32 HP10260-03-01		248,779
NRSA FOR PRIMARY MEDICAL CARE	93.186	5 T32HP10260-02-01		-3,996
				<u>244,783</u>
Human Health Studies_Applied Research and Development				
TUBERCULOSIS TRIALS CONSORTIUM	93.206	5 B02 CDC 200-2003-0		67,249
TUBERCULOSIS TRIALS CONSORTIUM	93.206	5 B02 CDC 200-2003-0 S1		7,562
				<u>74,811</u>
Research on Healthcare Costs, Quality and Outcomes				
FLU ALERT: INFLUENZA VACCINE ALERTS FOR PROVIDERS IN THE ELECTRONIC HEALTH RECORD	93.226	5 R18 HS018158-03		257,148
ELECTRONIC MEDICATION MANAGEMENT	93.226	1 R03 HS0182550-01		38,247
SAFETY IN THE HOME HEALTHCARE SECTOR: A PILOT STUDY	93.226	1 R03 HS018284-01		6,200
OFF-SHIFT NURSING AND QUALITY PATIENT OUTCOME	93.226	1 R36 HS018216-01		848
EXPLORATORY STUDY USING QUEUEING THEORY TO IMPROVE NURSE STAFFING EFFECTIVENESS	93.226	5 R21 HS017423-02		-845
				<u>301,598</u>
Public Health Training Centers Grant Program				
PUBLIC HEALTH TRAINING CENTERS	93.249	6 D20 HP00016-10-03		223,463
PUBLIC HEALTH TRAINING CENTERS	93.249	5 D20 HP00016-09-01		198,667
				<u>422,130</u>
Centers for Disease Control and Prevention_Investigations and Technical Assistance				

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
SUSCEPTIBILITY TESTING, TREATMENT CHOICES, AND OUTCOMES OF MDR-GNB INFECTIONS	93.283	5 R01 CI000537-03		119,391
STOPPING URIS AND FLU IN THE FAMILY: THE STUFFY TRIAL	93.283	3 U01 CI000442-02S1 SC2		32,961
STOPPING URIS AND FLU IN THE FAMILY: THE STUFFY TRIAL	93.283	5 U01 *CI00044202		5,548
STOPPING URIS AND FLU IN THE FAMILY: THE STUFFY TRIAL	93.283	3 U01 CI000442-02S1 SC3		2,202
APPLIED RESEARCH IN ANTIMICROBIAL RESISTANCE: STUDIES OF SUSCEPTIBILITY TESTING	93.283	5 R01 CI000537-02R1		-225
				159,877
Trans-NIH Research Support				
USE OF INDUCED PLURIPOTENT STEM CELLS TO STUDY MECHANISMS OF FAMILIAL AND SPORADIC ALS	93.310	5 DP1 OD003930-05		712,498
				712,498
Social Services Research and Demonstration				
CHILD CARE AND EARLY EDUCATION RESEARCH CONNECTIONS	93.647	90YE0104/03		1,052,675
CHILD CARE AND EARLY EDUCATION RESEARCH CONNECTIONS	93.647	90YE0104/02		477,892
				1,530,567
Grants for Training in Primary Care Medicine and Dentistry				
POSTDOCTORAL TRAINING IN GENERAL, PEDIATIC AND PUBLIC HEALTH DENTISTRY AND DENTAL HYGIENE	93.884	1 D88HP20109-02-00		160,227
PREDOCTORAL TRAINING IN GENERAL, PEDIATRICS, AND PUBLIC HEALTH DENTISTRY AND DENTAL HYGIENE	93.884	1 D85HP20031-01-00		104,103
				264,330
Epidemiologic Research Studies of Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV) Infection in Selected Population Groups				
PS07-003, MINORITY HIV/AIDS RESEARCH INITIATIVE (MARI)	93.943	5 U01 PS000700-04		267,109
EVALUATION OF PHARMACY SYRINGE ACCESS LINKED TO HIV TESTING IN BLACK/HISPANIC IDU	93.943	7 U01 PS000698-05		127,898
PS07-003, MINORITY HIV/AIDS RESEARCH INITIATIVE (MARI)	93.943	5 U01 PS000700-03		56,979
PS07-003, MINORITY HIV/AIDS RESEARCH INITIATIVE (MARI)	93.943	5 U01 PS000700-02		-192
				451,794
Cooperative Agreements to Support State-Based Safe Motherhood and Infant Health Initiative Programs				
FAMILY AND CULTURAL INFLUENCES ON SEX AMONG LATINO YOUTH	93.946	3 U01 DP000175-05S1		22,020
				22,020
Family Planning Service Delivery Improvement Research Grants				
FAMILY PLANNING SERVICE DELIVERY IMPROVEMENT RESEARCH	93.974	5 FPRPA006032-03-00		190,630
FAMILY PLANNING SERVICE DELIVERY IMPROVEMENT RESEARCH	93.974	6 FPRPA006032-02-02		29,956
IMPACT OF PACK SUPPLY ON CONTRACEPTIVE CONTINUATION	93.974	5 FPRPA006025-03-00		11,928
				232,514
Total Direct Award Programs:				15,534,507
Pass-through Awards				
Misc HSS Funding				
NORTHROP GRUMMAN CORPORATION	93.000	NGC 8140000646	BARDA HHSO100201000048C	454,115
SYSTEMS RESEARCH AND APPLICATIONS CORPORATION (SRA)	93.000	SRAC S928000011	CDC #200-2004-10182	302,191

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
NORTHROP GRUMMAN CORPORATION	93.000	NGC 8140000583	HHSO100201000002C	260,426
ARIZONA STATE UNIVERSITY	93.000	ASU 10-378	HHSO100201000008C	255,199
NEW YORK BLOOD CENTER	93.000	NYBC 33210707	NIH	99,886
HARVARD PILGRIM HEALTH CARE	93.000	HPHC CU10-1633	FDA HHSF223200910006I	59,338
URBAN INSTITUTE	93.000	URBAN 08350-006-00-C	HHSP23320095654WC	30,862
AMERICAN PSYCHIATRIC ASSOCIATION	93.000	APA CU10-2390	SAMHSA	11,932
RESEARCH TRIANGLE INSTITUTE	93.000	RTI 3-312-0212684	HHSF223201000044C	10,000
ALTARUM INSTITUTE	93.000	ALTARUM CU08-8678	HHSH250200646028I	8,226
ICF INCORPORATED	93.000	ICFI 28HT00294	HHSP233-2008-RFQ0011	-7,363
				1,484,812
Area Health Education Centers Point of Service Maintenance and Enhancement Awards				
PUBLIC HEALTH SOLUTIONS	93.107	PUBHS 07-CU-01	H12 HA07834	75,643
PUBLIC HEALTH SOLUTIONS	93.107	PUBHS 07-CU-01	H12 HA07835	12,976
				88,619
Maternal and Child Health Federal Consolidated Programs				
MASSACHUSETTS GENERAL HOSPITAL	93.110	MGH CU09-1178	UA3MC11054	49,999
MASSACHUSETTS GENERAL HOSPITAL	93.110	MGH CU11-1667	5 UA3MC11054-03-00	23,897
				73,896
Project Grants and Cooperative Agreements for Tuberculosis Control Programs				
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	93.116	UMDNJ CU00-0713	CDC CU00-0713	109,737
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	93.116	UMDNJ CU00-0713	CDC CU00-0713	39,048
				148,785
Community Programs to Improve Minority Health Grant Program				
COMMUNITY HEALTHCARE NETWORK	93.137	CHCNTWK CU08-9012	G920A 03996-01-00	16,964
				16,964
Health Program for Toxic Substances and Disease Registry				
NEW YORK STATE DEPARTMENT OF HEALTH	93.161	SDH C-021002	HRSA C-021002	161,315
NEW YORK STATE DEPARTMENT OF HEALTH	93.161	SDH C-021002	HRSA C-021002	-8,939
				152,376
Research on Healthcare Costs, Quality and Outcomes				
RUTGERS UNIVERSITY	93.226	RUTGER 00003650	1 U18 HS017918-01	61,488
MOUNT SINAI HOSPITAL	93.226	MSH 0254-5681-4609	1 R01 HS019670-01	42,667
RUTGERS UNIVERSITY	93.226	RUTGER CU10-2730	U18 HS016097-05	34,993
INSTITUTE FOR FAMILY HEALTH	93.226	IFFAMH CU08-7819	HRSA 1 H2HIT08613-01-00	11,469
PRIMARY CARE DEVELOPMENT CORPORATION	93.226	PCDC CU09-1354	1 R18 HS017167-01	9,930
PRIMARY CARE DEVELOPMENT CORPORATION	93.226	PCDC CU09-1354	1 R18 HS017167-01	8,944
				169,491

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Mental Health Research Grants				
UNIVERSITY OF ROCHESTER MEDICAL CENTER	93.242	URMC 415292-G	1 R01 MH091452-01	22,055
				<u>22,055</u>
Substance Abuse and Mental Health Services_Projects of Regional and National Significance				
AMERICAN PSYCHIATRIC ASSOCIATION	93.243	APA CU10-2191	SAMHSA	28,455
				<u>28,455</u>
Drug Abuse and Addiction Research Programs				
UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	93.279	UKRK 3048105116-09-2	DHHS	140,445
				<u>140,445</u>
Centers for Disease Control and Prevention_Investigations and Technical Assistance				
HEALTH RESEARCH INCORPORATED	93.283	SHRI 3476-03	5 U58 DP00078303	372,417
ASSOCIATION FOR PREVENTION TEACHING AND RESEARCH	93.283	APTAR CU08-9263	5 U50CD300860-22W1	141,762
HEALTH RESEARCH INCORPORATED	93.283	SHRI 3476-02	5 U58DP00078303	74,673
ASSOCIATION FOR PREVENTION TEACHING AND RESEARCH	93.283	APTAR CU08-9263		60,220
ASSOCIATION OF AMERICAN MEDICAL COLLEGES	93.283	AAMC MM-1002-07/07	5U36/CCU319276-06	49,995
ASSOCIATION OF AMERICAN MEDICAL COLLEGES	93.283	AAMC CU08-8820	5 U36CD319276	13,325
				<u>712,392</u>
Teenage Pregnancy Prevention Program				
UNIVERSITY OF COLORADO	93.297	UCOL FY11-355.001	1 TP2AH0003-01-00	121,152
ENGENDERHEALTH	93.297	ENGENDER TPP-001-01	1 TP2 AH000001-01-00	109,394
				<u>230,546</u>
Child Support Enforcement Research				
MARYLAND DEPARTMENT OF HUMAN RESOURCES	93.564	MDHR OGM/ETE 10-001	HHS209ACFOCSEFD0093	82,751
				<u>82,751</u>
Microbiology and Infectious Diseases Research				
AMERICAÆS HEALTH INSURANCE PLANS	93.856	AAHP 200-2002-00732	CDC 200-2002-00732	292,380
AMERICAÆS HEALTH INSURANCE PLANS	93.856	AAHP 200-2002-00732 SC1	CDC 200-2002-00732	128,895
AMERICAÆS HEALTH INSURANCE PLANS	93.856	AAHP 200-2002-00732	CDC 200-2002-00732	126,623
				<u>547,898</u>
Child Health and Human Development Extramural Research				
CHILDRENS HOSPITAL LOS ANGELES	93.865	CHLA 000222A3	5 R01 HD040777-07	55,928
				<u>55,928</u>
National Bioterrorism Hospital Preparedness Program				
JACOBI HOSPITAL CENTER	93.889	JACOBIH CU07-1762	U3RHS07565	4,113
				<u>4,113</u>
Family and Community Violence Prevention Program				

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HETRICK-MARTIN INSTITUTE	93.910	HMI CU09-3535	DHHS CU09-3535	62,525
HETRICK-MARTIN INSTITUTE	93.910	HMI CU09-3535	DHHS CU09-3535	-492
				<u>62,033</u>
HIV Emergency Relief Project Grants				
PUBLIC HEALTH SOLUTIONS	93.914	PUBHS 93-EVL-4645-20	NYCDOHMH CU10-0192	524,058
PUBLIC HEALTH SOLUTIONS	93.914	PUBHS 93-EVL-4645-21	NYCDOHMH CU11-0215	244,007
				<u>768,065</u>
Special Projects of National Significance				
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.928	PH CU08-9916	5 H97HA08483-03	98,078
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.928	PH CU08-9072	5 H97HA08483-03	81,598
PUBLIC HEALTH SOLUTIONS	93.928	PUBHS 09-CU-01	H97 HA15299	12,075
				<u>191,751</u>
Epidemiologic Research Studies of Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV) Infection in Selected Population Groups				
NEW YORK ACADEMY OF MEDICINE	93.943	NYAMED CU09-0209	5 U01 PS000698-03	22,433
NEW YORK ACADEMY OF MEDICINE	93.943	NYAMED 2	5 U01 PS000698-04	11,439
				<u>33,872</u>
Block Grants for Community Mental Health Services				
MACRO INTERNATIONAL	93.958	MACROINT 33430-10S-1	DHHS/SAMSA	31,268
				<u>31,268</u>
Geriatric Education Centers				
MOUNT SINAI SCHOOL OF MEDICINE	93.969	MSSM CU10-2186	1 UB4HP19194-01-00	57,737
				<u>57,737</u>
Maternal and Child Health Services Block Grant to the States				
RESEARCH INSTITUTE AT NATIONWIDE CHILDRENS HOSPITAL	93.994	RINCH CU10-1346	H34MC16870	10,896
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDH C-021002 SC2	HRSA C-021002	10,295
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDH C-021002 SC2	HRSA C-021002	3,530
				<u>24,721</u>
Total Pass-through Programs:				<u>5,128,973</u>
Total: Department of Health & Human Services (Excluding NIH)				<u>20,663,480</u>

National Institute of Health
Direct Awards

National Heart, Lung, & Blood Institute

MESA: MULTIETHNIC STUDY OF ATHROSCLEROSIS-FIELD CENTER	93.000	N01-HC-95161		1,541,080
THE NATIONAL STANDARD FOR NORMAL FETAL GROWTH	93.000	HHSN275200800013C		1,388,699
THE NATIONAL STANDARD FOR NORMAL FETAL GROWTH	93.000	HHSN275200800013C	SC1	250,846

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
PARALLEL GROUP STUDY TO EVALUATE... PATCHES CONTAINING DIFFERENT DOSES OF LEVONORGRDYTRL(LNG) PATCH STUDY	93.000	HHSN275201000019U -T		197,597
CONTRACEPTIVE EFFICACY EVALUATION OF THE PATH FEMALE CONDOM	93.000	HHSN275200900099U		123,051
SUBPOPULATIONS AND INTERMEDIATE OUTCOME MEASURE IN COPD STUDY (SPIROMICS: CLINICAL CENTER)	93.000	HHSN268200900017C		119,475
SUBPOPULATIONS AND INTERMEDIATE OUTCOME MEASUER IN COPD STUDY (SPIROMICS: CLINCIAL CENTER)	93.000	HHSN268200900017C		117,477
JAIDS SUPPLEMENT	93.000	OAR CU10-2978		50,940
HIV AND HEALTH SYSTEMS: LEVERAGING HIV SCALE TO STRENGTHEN CHRONIC DISEASES SERVICES NIH CONFERENCE	93.000	OAR CU11-1358		10,724
CORE FUNCTION ACTIVITIES TASK ORDER	93.000	NICHD CU11-1362		6,758
MESA: CODING OCCUPATIONAL AND INDUSTRIAL DATA (NIOSH)	93.000	NO1-HC-95161	SC1	3,692
				3,810,339
Environmental Health				
HEALTH EFFECTS OF EARLY-LIFE EXPOSURE TO URBAN POLLUTANTS IN MINORITY CHILDREN	93.113	5 R01 ES008977-14		1,115,483
RISK FACTORS ACCOUNTING FOR NEIGHBORHOOD DIFFERENCES IN ASTHMA PREVALENCE	93.113	5 R01 ES014400-04		634,297
MOLECULAR AND BEHAVIORAL EFFECTS OF LOW LEVEL MN EXPOSURE	93.113	5 R01 ES010975-08		612,109
ASSESS THE EFFECTS OF PRE- AND POSTNATAL EXPOSURE TO THE ORGANOPHOSPHORUS	93.113	5 R01 ES015579-03		591,835
MULTOCENTER ALS COHART STUDY OF OXIDATIVE STRESS AND DISEASE PROGRESSION	93.113	5 R01 ES016348-03		562,668
PHTHALATE EXPOSURE AND INNER CITY PEDIATRIC ASTHMA	93.113	5 R01 ES014393-05		525,768
EARLY-LIFE PHTHALATE EXPOSURE, THYROID FUNCTION AND CHILD COGNITIVE DEVELOPMENT	93.113	5 R01 ES013543-06		447,765
BIOMARKERS FOR ARSENIC TOXICITY: GENETICS, EPIGENETICS AND FOLATE	93.113	5 R01 ES017875-02		419,649
DEVELOPMENTAL EFFECTS OF EARLY-LIFE EXPOSURE TO AIRBORNE PAHS	93.113	5 R01 ES015282-03		413,677
PERIPHERAL BDZ RECEPTOR: BIOMARKER OF NEUROTOXICITY	93.113	5 R01 ES007062-14		403,711
BIOLOGICAL MARKERS OF AFLATOXIN EXPOSURE AND METHYLATION	93.113	5 R01 ES005116-20		396,965
NMDA RECEPTOR FUNCTION IN LEAD NEUROTOXICITY	93.113	5 R01 ES006189-18		389,491
INTEGRATIVE HEALTH SCIENCES FACILITY CORE	93.113	5 P30 ES009089-12	SC2	374,531
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04	S4	363,102
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	5 U01 ES016074-03		356,342
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04	S1	335,821
HEALTH EFFECTS OF EARLY-LIFE EXPOSURE TO URBAN POLLUTANTS IN MINORITY CHILDREN	93.113	5 R01 ES008977-14	SC1	329,072
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04	S3	307,437
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04	S2	306,415
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-12		213,008
PROJECT 2 - NEURODEVELOPMENT	93.113	5 P01 ES009600-12	PJ2	210,070
RAD9-BASED MOUSE MODEL OF PROSTATE CARCINOGENESIS	93.113	5 R21 ES017557-02		208,111
NMDA RECEPTOR FUNCTION IN LEAD NEUROTOXICITY - VICTER	93.113	5 R01 ES006189-18	S1	204,111
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04		203,555
TRACE METALS FACILITY CORE	93.113	5 P30 ES009089-12	SC1	186,303
URBAN DIESEL EXPOSURE AND INNER CITY ASTHMA	93.113	5 R01 ES013163-5		184,780
PROJECT 1 - OBESITY	93.113	5 P01 ES009600-12	PJ1	167,499

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THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04 S6		157,263
INTERDISCIPLINARY TRAINING IN ENVIRONMENTAL HEALTH	93.113	5 T32 ES007322-10		130,542
PRENATAL PAH EXPOSURE AND GENOME-WIDE METHYLATION IN A COHORT OF SIBLING-PAIRS	93.113	4 R00 ES017051-03		123,035
EXPOSURE ASSESSMENT FACILITY CORE/LAMONT	93.113	5 P30 ES009089-12 SC4		113,488
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	5 U01 ES016110-04		111,003
COMMUNITY OUTREACH & EDUCATION CORE	93.113	5 P30 ES009089-12 SC6		110,884
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04 S7		110,423
NOISE EXPOSURE IN SUBWAY RIDERS	93.113	5 R21 ES015347-02		109,464
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04 S5		108,646
PROJECT 3 - MECHANISTIC PRIMARY SCOPE - PSYCH	93.113	5 P01 ES009600-12 PS3		106,255
COLUMBIA CENTER FOR CHILDREN'S ENVIRONMENTAL HEALTH - ADMIN CORE	93.113	5 P01 ES009600-12		103,191
EXPOSURE ASSESSMENT FACILITY CORE/MSPH	93.113	5 P30 ES009089-12 SC3		98,263
DSM CORE	93.113	5 P01 ES009600-12 DSM		91,260
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-13		84,776
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	3 U01 ES016110-04S1 CHI		79,998
ADMIN CORE/DIRECTOR'S FUND	93.113	5 P30 ES009089-12 S1		77,218
TRACE METALS FACILITY CORE	93.113	5 P30 ES009089-13 SC1		73,188
INTERRELATIONSHIPS AMONG NUTRIENTS INVOLVED IN ONE-CARBON METABOLISM IN BANGLADESHI ADULTS: INFLUENCES ON METHYLATION OF	93.113	5 K99 ES018890-02		72,246
CAREER DVLPMT/JR. FACULTY SUPPORT	93.113	5 P30 ES009089-12 CD2		72,068
HIGH THROUGHPUT TECHNOLOGY FOR ASSESSING GLOBAL DSB REPAIR CAPACITY	93.113	1 R21 ES019494-01		69,733
COTC CORE SCOPE - CCCEH	93.113	5 P01 ES009600-12 COT		57,898
PRENATAL PAH EXPOSURE AND GENOME-WIDE METHYLATION IN A COHORT OF SIBLING-PAIRS	93.113	5 K99 ES017051-02		51,282
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-12 AK		46,216
INTEGRATIVE HEALTH SCIENCES FACILITY CORE	93.113	5 P30 ES009089-13 SC2		45,851
CAREER DVLPMT/JR. FACULTY SUPPORT	93.113	5 P30 ES009089-12 CD1		40,269
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	5 U01 ES016110-04 MA MAG		39,955
INTERVENING TO IMPROVE BIRTH WEIGHT AND INFANT RESPIRATORY HEALTH IN RURAL GHANA	93.113	1 R01 ES019547-01A1		36,587
PROJECT 3 - MECHANISTIC PRIMARY SCOPE - CCCEH	93.113	2 P01 ES009600-11 PS3		35,698
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	5 U01 ES016110-04 SPH		34,232
CYTOPLASMIC DAMAGE AND GENOTOXICITY	93.113	5 R01 ES012888-05		33,695
ROLE OF ULTRAVIOLET RADIATION IN MERKEL CELL CARCINOGENESIS	93.113	1 R21 ES020060-01		33,471
CAREER DEVELOPMENT	93.113	5 P30 ES009089-12 S10		33,443
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	3 U01 ES016110-04S1 SPH		29,697
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	3 U01 ES016110-03S2 MAG		28,947
PROJECT 2 - NEURODEVELOPMENT	93.113	2 P01 ES009600-11 PJ2		28,739
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-04 S8		27,126
PRENATAL ORGANOCHLORIDE EXPOSURE AND MALE REPRODUCTION	93.113	5 R01 ES012231-04		23,451

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HEALTH EFFECTS OF EARLY-LIFE EXPOSURE TO URBAN POLLUTANTS IN MINORITY CHILDREN	93.113	5 R01 ES008977-14 SC2		22,972
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-12 ST		20,203
PRENATAL EXPOSURES AND PROCARCINOGENIC MUTATIONS IN NEWBORNS	93.113	5 R01 ES012732-04		18,554
PROJECT 1 - OBESITY	93.113	2 P01 ES009600-11 PJ1		16,418
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	5 U01 ES016110-04 CIE		15,369
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05		15,168
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	3 U01 ES016110-04S1 MED		15,118
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03 S3		14,605
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S3		13,667
EXPOSURE ASSESSMENT FACILITY CORE/LAMONT	93.113	5 P30 ES009089-13 SC4		13,006
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-12 S6		12,869
DSM CORE	93.113	2 P01 ES009600-11 DSM		12,559
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S2		12,492
EXPOSURE ASSESSMENT FACILITY CORE/MSPH	93.113	5 P30 ES009089-13 SC3		10,866
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-12 GF		10,669
COLUMBIA CENTER FOR CHILDREN'S ENVIRONMENTAL HEALTH - ADMIN CORE	93.113	2 P01 ES009600-11		10,399
COMMUNITY OUTREACH & EDUCATION CORE	93.113	5 P30 ES009089-13 SC6		9,162
PROJECT 3 - MECHANISTIC PRIMARY SCOPE - CCCEH	93.113	5 P01 ES009600-12 PJ3		8,563
CAREER DVLPMNT/JR. FACULTY SUPPORT	93.113	5 P30 ES009089-13 CD1		8,512
OBESITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	5 R01 ES014229-04 S1		7,971
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S6		7,384
PRENATAL PHTHALATES, PLACENTAL FUNCTION AND FETAL GROWTH	93.113	5 R01 ES013543-04		7,366
CAREER DEVELOPMENT	93.113	5 P30 ES009089-13 S10		6,960
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03 S4		6,847
PILOT PROJECT	93.113	5 P30 ES009089-12 BY		6,812
ADMIN CORE/DIRECTOR'S FUND	93.113	5 P30 ES009089-13 S1		6,255
OBESITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	5 R01 ES014229-04		6,006
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03 S6		5,807
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PROJECT	93.113	5 P30 ES009089-12 S4		4,072
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S1		3,980
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S4		3,813
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-12 JS		3,758
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S5		3,650
CAREER DVLPMNT/JR. FACULTY SUPPORT	93.113	5 P30 ES009089-13 CD2		3,640
MULTICENTER ALS COHORT STUDY OF OXIDATIVE STRESS AND DISEASE PROGRESSION	93.113	5 R01 ES016348-03S1		2,759
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-13 AK		2,699
COTC CORE SCOPE - CCCEH	93.113	2 P01 ES009600-11 COT		2,627

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ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-13 JS		1,810
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-05 S7		1,793
FINDING GROUPS IN SIMULATED WFMOS DATA SETS	93.113	5 U01 ES016110-03 SPH		1,347
MULTICENTER ALS COHORT STUDY OF OXIDATIVE STRESS AND DISEASE PROGRESSION	93.113	5 R01 ES016348-03S1 SC2		1,340
MULTICENTER ALS COHORT STUDY OF OXIDATIVE STRESS AND DISEASE PROGRESSION	93.113	5 R01 ES016348-03		1,189
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	3 U01 ES016074-03S2 SC3		699
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03 S2		372
OBESITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	5 R01 ES014229-04 SUP		246
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03 S1		130
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN - PILOT PRJT	93.113	5 P30 ES009089-12 DJ		110
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03		85
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11 DK		-155
INTERDISCIPLINARY TRAINING IN ENVIRONMENTAL HEALTH	93.113	5 T32 ES007322-09		-342
URBAN DIESEL EXPOSURE AND INNER CITY ASTHMA	93.113	5 R01 ES013163-05 SC1		-7,236
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	5 U01 ES016074-03		-63,114
				13,384,927

Nat. Inst. of Environmental Health Sciences

THE IMPACT OF ENVIRONMENTAL CONDITIONS ON THE PRODUCTIVITY OF AGRICULTURAL WORKERS	93.115	1 R21 ES019670-01		53,361
				53,361

Oral Diseases and Disorders Research

ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-10		854,117
TIGHT ADHERENCE GENES OF A PERIODONTAL PATHOGEN	93.121	5 R01 DE014713-09		367,650
ENGINEERING OF VASCULARIZED BONE	93.121	5 R01 DE018248-03		318,723
CRANIOFACIAL TISSUE ENGINEERING	93.121	5 R01 DE016525-05R1		194,780
PERIODONTAL INFECTIONS AND TYPE 2 DIABETES MELLITUS RISK	93.121	5 R00 DE018739-04		172,766
BRN3 TRANSCRIPTION FACTOR FAMILY IN OSTEOCLASTOGENESIS	93.121	5 K08 DE018968-03		152,120
ORAL TRANSMISSION OF HIV THROUGH BREASTFEEDING	93.121	5 R01 DE021238-02		139,563
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-10 SC1		74,087
BISPHOSPHONATE-RELATED OSTEONECROSIS OF THE JAW: A POLIT PHARMACOGENETIC STUD	93.121	7 R21 DE018143-03		42,996
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-09		17,837
INTERNATIONAL CONFERENCE ON DENTAL AND CRANIOFACIAL STEM CELLS	93.121	1 U13DE019994-01A1		15,000
PERIODONTAL INFECTIONS AND TYPE 2 DIABETES MELLITUS RISK	93.121	5 K99 DE018739-02		9,634
ATF4 A NOVEL REGULATOR OF OSTEOBLAST BIOLOGY	93.121	5 R01 DE011290-16		-23
TIGHT ADHERENCE GENES OF A PERIDONTAL PATHOGEN	93.121	5 R01 DE014713-05		-4,561
PERIODONTITIS, ATHEROSCLEROSIS AND THE HOST RESPONSE	93.121	5 R01 DE014575-05		-12,393
				2,342,296

NIEHS Superfund Hazardous Substances_Basic Research and Education

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CORE B - TRACE METALS LABORATORY CORE	93.143	5 P42 ES010349-10 S3		390,599
PJ3 - CONSEQUENCES OF AS & MN EXPOSURE IN CHILDHOOD INTELLIGENCE	93.143	5 P42 ES010349-10 S8		379,819
PJ 7 - MITIGATION OF AS MOBILIZATION IN GROUND WATER	93.143	5 P42 ES010349-10 S17		334,124
CORE C - BIOCHEMISTRY CORE	93.143	5 P42 ES010349-10 S14		250,630
PJ1- GENOTOXIC & CELL SIGNALING PATHWAYS IN MAMMALIAN CELLS	93.143	5 P42 ES010349-10 S6		225,720
PJ5 - MOBILIZATION OF NATURAL AS & MN IN GROUND WATER	93.143	5 P42 ES010349-10 S11		205,644
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY - BANGLADESH	93.143	5 P42 ES010349-10 S10		172,059
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY	93.143	5 P42 ES010349-10 S7		171,417
CORE A - DATA MANAGEMENT CORE	93.143	5 P42 ES010349-10 S2		166,288
CORE D - HYDROGEOLOGY CORE	93.143	5 P42 ES010349-10 S15		161,679
THAILAND/VIETNAM SUPPLEMENT - SUPERFUND	93.143	5 P42 ES010349-10 THV		155,565
HEALTH EFFECTS AND GEOCHEMISTRY OF ARSENIC AND MANGANESE	93.143	5 P42 ES010349-10		146,779
PJ4-1 CARBON META, OXIDATIVE STRESS & TOXICITY IN BANGLADESH	93.143	5 P42 ES010349-10 S5		144,601
PJ6 - MOBILIZATION OF ANTHROPOGENIC AS IN GROUND WATER	93.143	5 P42 ES010349-10 S13		136,099
HEALTH EFFECTS & GEOCHEMISTRY OF ARSENIC & MANGANESE	93.143	5 P42 ES010349-10 BGL		118,800
HEALTH EFFECTS AND GEOCHEMISTRY OF ARSENIC AND MANGANESE - PRJT 5 SUPP	93.143	5 P42 ES010349-10 YZ		114,146
HEALTH EFFECTS AND GEOCHEMISTRY OF ARSENIC AND MANGANESE - JG	93.143	5 P42 ES010349-10 JG		98,278
RESEARCH TRANSLATION CORE - CIESIN	93.143	5 P42 ES010349-10 S1		78,992
RESEARCH TRANSLATION CORE - LDEO	93.143	5 P42 ES010349-10 S12		51,554
PJ3 -CONSEQUENCES OF AS & MN EXPO IN CHILDHOOD INTEL/BANGDSH	93.143	5 P42 ES010349-10 S9		39,516
CORE E - TRAINING CORE	93.143	5 P42 ES010349-10 S4		32,979
INNOVATIVE METHODOLOGIES & MAPPING TO ASSESS VULNERABLE POPULATIONS NEAR SF SITES	93.143	5 P42 ES010349-10 GOL		19,074
PJ4 -1 CARBON METABSM, OXIDATIVE STRESS & AS TOXICITY/BANGDSH	93.143	5 P42 ES010349-10 S16		11,058
PJ5 - MOBILIZATION OF NATURAL AS & MN IN GROUND WATER	93.143	5 P42 ES010349-09 S11		-273
CORE B - TRACE METALS LABORATORY CORE	93.143	5 P42 ES010349-09 S3		-1,047
CORE A - DATA MANAGEMENT CORE	93.143	5 P42 ES010349-09 S2		-2,056
PJ3 -CONSEQUENCES OF AS & MN EXPO IN CHILDHOOD INTEL/BANGDSH	93.143	5 P42 ES010349-09 S9		-3,042
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY - BANGLADESH	93.143	5 P42 ES010349-09 S10		-47,208
				3,551,794

Human Genome Research

SINGLE MOLECULE DNA SEQUENCING BY FLUORESCENT NUCLEOTIDE REVERSIBLE TERMINATORS	93.172	5 R01 HG005109-03		2,325,414
INFERRING GENE REGULATORY CIRCUITRY FROM FUNCTIONAL GENOMICS DATA	93.172	5 R01 HG003008-07		367,264
LOW-COST ACTIVE CMOS BIOCHIPS FOR WHOLE GENOME ANALYSIS	93.172	5 R33 HG003089-05 SHE		215,824
CENTER FOR ELSI RESEARCH ON PSYCHIATRIC, NEUROLOGIC, AND BEHAVIORAL GENETICS	93.172	5 P20 HG005535-02		202,302
AN INTEGRATED FRAMEWORK OF EPIGENOMICS AND HUMAN DISEASE	93.172	5 K22 HG002915-05		175,760
LOW-COST ACTIVE CMOS BIOCHIPS FOR WHOLE GENOME ANALYSIS	93.172	5 R33 HG003089-05		127,470
GENETICS AND STIGMA: THE ROLE OF MASS MEDIA	93.172	3 R01 HG003380-02 S1		77,753

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STATISTICAL METHODS TO ASSESS THE ROLE OF RARE VARIANTS IN COMPLEX TRAITS	93.172	5 R03 HG005908-02		76,943
DNA SEQUENCING WITH REVERSIBLE DNTP AND CLEAVABLE FLUORESCENT DDNTP TERMINATORS	93.172	5 R01 HG004774-02		12,422
MODULATING NUCLEOTIDE SIZE IN DNA FOR DETECTION BY NANOPORE	93.172	5 R21 HG003718-03		2,774
GENETICS AND STIGMA: THE ROLE OF MASS MEDIA	93.172	5 R01 HG003380-02		-448
AN INTEGRATED SYSTEM FOR DNA SEQUENCING BY SYNTHESIS	93.172	5 R01 HG003582-05		-5,366
AN INTEGRATED SYSTEM FOR DNA SEQUENCING BY SYNTHESIS	93.172	5 R01 HG003582-06		-18,110
				3,560,002
Research Related to Deafness and Communication Disorders				
ADULT NEUROGENESIS IN THE MAMMALIAN OLFACTORY BULB	93.173	5 R01 DC009239-04		588,608
NEURAL CODING AND PERCEPTION OF LEARNED VOCALIZATIONS	93.173	5 R01 DC009810-02R1		295,962
CRCNS: INPUT/OUTPUT CHARACTERIZATION OF THE ANTENNAL LOBE OF THE DROSOPHILA	93.173	5 R01 DC008701-05		191,693
INTRACOCHELEAR MEASURES OF ACTIVE COCHLEAR MECHANICS	93.173	5 R21 DC010416-02		182,482
OBSERVING AUDITORY MECHANICS WITH PRESSURE AND MOTION MEASUREMENTS	93.173	5 R01 DC003130-16		144,114
OBSERVING AUDITORY MECHANICS WITH PRESSURE AND MOTION MEASUREMENTS	93.173	2 R01DC003130-17A1		94,021
OBSERVING AUDITORY MECHANICS WITH PRESSURE MEASUREMENTS	93.173	5 R01 DC003130-16 HUG		48,846
SYNAPTIC PROCESSES MEDIATING CORTICAL ODOR CODING	93.173	5 K99 DC009839-02		37,253
ENCODING AND MODULATION OF INNATELY RELEVANT ODOR INFORMATION IN THE MOUSE	93.173	5 F31 DC009922-03		35,737
ANALYSIS OF FUNCTIONAL DIVERSITY IN THE CHEMOSENSORY SYSTEM OF C. ELEGANS	93.173	5 F30 DC009098-03		28,515
DISCRIMINATION OF COMMUNICATION SOUNDS IN AUDITORY SCENES	93.173	5 F31 DC010301-02		22,307
DISCRIMINATION OF COMMUNICATION SOUNDS IN AUDITORY SCENES	93.173	1 F31 DC010301-01A1		18,936
OBSERVING AUDITORY MECHANICS WITH PRESSURE MEASUREMENTS	93.173	2 R01DC003130-17A HUG		18,816
OBSERVING AUDITORY MECHANICS WITH PRESSURE AND MOTION MEASUREMENTS	93.173	5 R01 DC003130-16 SC3		17,381
ENCODING MODULATION OF INNATELY RELEVANT ODOR INFORMATION IN THE MOUSE	93.173	5 F31 DC009922-02		2,166
OBSERVING AUDITORY MECHANICS WITH PRESSURE AND MOTION MEASUREMENTS	93.173	5 R01 DC003130-16 SC2		153
				1,726,990
Research and Training in Complementary and Alternative Medicine				
CHOLINE TREATMENT FOR INFLAMMATORY PAIN	93.213	5 R21 AT004708-02		167,696
PREVENTION OF PEPARTIC FIBROSIS BY PROBIOTICS	93.213	5 R21 AT003878-02		153,949
CHOLINE TREATMENT FOR INFLAMMATORY PAIN	93.213	5 R21 AT004708-03		33,156
ANTICANCER POTENTIAL OF BLACK COHOSH ON BREAST CANCER	93.213	5 K01 AT001692-03		675
				355,476
National Center on Sleep Disorders Research				
REDUCING SLEEP DISPARITIES IN URBAN, MINORITY SCHOOL-AGED CHILDREN	93.233	5 R01 HL092856-03		896,418
VASCULAR ENDOTHELIAL ACTIVATION IN SLEEP	93.233	1 R01 HL106041-01A1		1,969
				898,387
Mental Health Research Grants				
2/2 A COMPARISON OF LONG-ACTING INJECTABLE MEDICATIONS FOR SCHIZOPHRENIA-ACLAIMS - SUB-SITES	93.242	5 R01 MH081107-03 SC2		998,099

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2/2 A COMPARISON OF LONG-ACTING INJECTABLE MEDICATIONS FOR SCHIZOPHRENIA-ACLAIMS	93.242	5 R01 MH081107-03		825,936
BIOSIGNATURES OF TREATMENT REMISSION IN MAJOR DEPRESSION	93.242	5 U01 MH092250-02		787,945
COLUMBIA CENTER FOR HOMELESSNESS PREVENTION STUDIES	93.242	5 P30 MH071430-05		647,769
MULTI-LEVEL DETERMINANTS OF LATE ART INITIATION IN SUB-SAHARAN AFRICA	93.242	5 R01 MH089831-02		501,707
FUTURE SUICIDE ATTEMPT: PSYCHOBIOLOGICAL FEATURES	93.242	5 R01 MH048514-18		462,609
PARENTAL REMISSION FROM DEPRESSION AND CHILD PSYCHOPATHOLOGY	93.242	5 R01 MH082255-03		452,559
USING MULTIMEDIA AND DIGITAL TECHNOLOGIES IN THE DISSEMINATION OF AN HIV/STI PREVENTION INTERVENTION	93.242	5 R01 MH080659-05		436,118
SCN NETWORKS AND EFFERENT SIGNALS	93.242	5 R01 MH075045-05		427,570
CATEGORICAL DECISION-MAKING IN FRONTO-STRIATAL CIRCUITS	93.242	5 R01 MH059244-12		425,257
MAPPING GENES FOR SCHIZOPHRENIA IN A FOUNDER POPULATION	93.242	5 R01 MH061399-09		415,803
5-HT1A RECEPTOR ANTI-APOPTOTIC TRANSDUCTION PATHWAYS IN SUICIDE	93.242	5 R01 MH079439-04		412,322
TRANSLATIONAL RESEARCH TRAINING IN CHILD PSYCHIATRY	93.242	2 T32 MH016434-31		411,950
THERAPEUTIC POTENTIAL OF GLS1 INHIBITION FOR THE PHARMACOTHERAPY OF SCHIZOPHRENIA	93.242	5 R01 MH087758-02		407,989
HIV/STI RISK AMONG MIGRANT MARKET WORKERS IN KAZAKHTAN	93.242	5 R01 MH082684-02		402,553
COMPLICATED GRIEF TREATMENT IN ELDERLY ADULTS	93.242	5 R01 MH070741-05		387,015
MECHANISMS MEDIATING LONG-TERM SYNAPTIC PLAST	93.242	5 R01 MH060387-11		380,372
FUNCTIONAL ANALYSIS OF 22Q11 SCHIZ. SUSCEPTIBILITY GENES	93.242	5 R01 MH067068-9		377,673
MINDBOGGLING SHAPE ANALYSIS AND IDENTIFICATION	93.242	5 R01 MH084029-03		364,986
NEURAL MECHANISMS OF INCREASED ANXIETY IN SEROTONIN 1A RECEPTOR-DEFICIENT MICE	93.242	5 R01 MH081968-04		350,787
INFERRING PHENOGENETIC MECHANISMS IN PSYCHIATRIC AND OTHER COMPLEX TRAITS	93.242	5 R01 MH084995-03		342,698
THE ROLE OF NEURONAL INTEGRATION IN WORKING MEMORY	93.242	5 R01 MH045923-20		338,061
BUILDING TRANSLATIONAL RESEARCH IN OBSESSIVE-COMPULSIVE DISORDER	93.242	5 R24 MH080022-03		336,909
MENTAL HEALTH AND SERVICE UTILIZATION AMONG RESERVE AND NATIONAL GUARD FORCES	93.242	5 R01 MH082729-04		330,889
A FAMILY-BASED ECONOMIC EMPOWERMENT MODEL FOR ORPHANED CHILDREN IN UGANDA	93.242	5 R34MH081763-03		328,867
REJECTION SENSITIVITY AND SELF-REGULATION IN PERSONALITY DISORDERS	93.242	5 R01 MH081948-04		326,437
APPROACH/AVOIDANCE ORIENTATIONS AND OPERATIONS	93.242	5R01MH039429-28R1		321,215
MULTIMODAL NEUROIMAGING FOR MAPPING DECISION MAKING IN THE HUMAN BRAIN	93.242	5 R01 MH085092-03		317,172
HCN1 CHANNELS IN HIPPOCAMPAL FUNCTION AND SPATIAL MEMORY	93.242	5 R01 MH080745-04		299,556
NEUROPHYSIOLOGY UNDERLYING NEURAL REPRESENTATIONS OF VALUE	93.242	5 R01 MH082017-04		299,025
HIV/STI RISK AMONG MIGRANT MARKET WORKERS IN KAZAKHTAN	93.242	5 R01 MH082684-02 KAZ		295,985
BEHAVIORAL SCIENCES RESEARCH IN HIV INFECTION	93.242	2 T32 MH019139-21		293,604
EVALUATING A MICROFINANCE INTERVENTION FOR HIGH RISK WOMEN IN MONGOLIA	93.242	1 R34MH093227-01		292,513
GENETIC AND ENVIRONMENTAL MODULATION OF RNA EDITING	93.242	5 R01 MH078993-04		276,214
DESIGN OF MOLECULAR PROBES FOR OPTICAL IMAGING OF DOPAMINE NEUROTRANSMISSION	93.242	5 R01 MH086545-02		267,823
THE NEURAL BASES OF THE COGNITIVE CONTROL OF EMOTION	93.242	5 R01 MH076137-05		254,725
PSYCHIATRIC GENETICS AND FAMILY STUDIES: ROBUST METHODS	93.242	5 R01 MH048858-15		247,072
MECHANISMS OF AXONAL PATHFINDING CONTROLLED BY NETRIN-1	93.242	5 R00MH081058-05		246,967

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POSTMORTEM NEUROCHEMICAL STUDIES IN SUICIDE	93.242	5 R01 MH040210-26		231,839
NEUROBEHAVIORAL SCIENCES RESEARCH TRAINING PROGRAM	93.242	5 T32 MH015174-34		231,120
BIOLOGY OF LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.242	5 P50 HL077096-04 R5 CL1		230,700
CONSISTENCY IN SOCIAL BEHAVIOR	93.242	5 R37 MH039349-25		226,369
DEVELOPMENTAL NEUROSCIENCE AND BEHAVIOR	93.242	5 T32 MH018264-27		218,737
GENETIC ANALYSIS: PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.242	5 T32 MH065213-09		204,700
COGNITIVE MECHANISMS OF SERIALY ORGANIZED BEHAVIOR	93.242	5 R01 MH081153-04		202,500
ELUCIDATING THE EFFECT OF DISC1 DEFICIENCY ON NEURODEVELOPMENT AND COGNITION	93.242	5 R01 MH080234-04		201,752
FUNCTIONAL ANALYSIS OF 22Q11 SCHIZ. SUSCEPTIBILITY GENES	93.242	5 R01 MH067068-09 SC SC1		199,146
MEN WHO HAVE SEX WITH MEN AND WOMEN - PATHWAYS, MOTIVE AND HIDDEN BEHAVIORS	93.242	5 R01 MH076680-03		195,371
OCD COLLABORATIVE GENETICS ASSOCIATION STUDY	93.242	5 R01 MH079488-04		194,956
COMPUTATIONAL DISCOVERY OF SYNERGISTIC MECHANISMS RESPONSIBLE FOR PSYCHIATRIC DISORDERS FROM BIOLOGICAL DATA ANALYSIS	93.242	5 R21 MH087395-02 KAR		193,719
COMPUTATIONAL DISCOVERY OF SYNERGISTIC MECHANISMS RESPONSIBLE FOR PSYCHIATRIC DISORDERS FROM BIOLOGI	93.242	5 R21 MH087395-02		185,244
IMAGING THE SEROTONIN SYSTEM IN OBSESSIVE-COMPULSIVE DISORDER	93.242	5 R01 MH073915-04		183,004
ELUCIDATING ABERRANT DOPAMINE RELEASE IN SCHIZOPHRENIA	93.242	5 R21 MH090356-02		171,946
1/4 OPTIMIZING TREATMENT FOR COMPLICATED GRIEF	93.242	5 R01 MH060783-07 SC SC1		156,218
PAROXETINE/BUPROPION IN SUICIDE ATTEMPTERS/IDEATORS WITH MAJOR DEPRESSION	93.242	5 K23 MH076049-05		151,641
ELUCIDATION OF GENE NETWORKS UNDERLYING SUSCEPTIBILITY TO SCHIZOPHRENIA	93.242	5 R01 MH077235-03 SC1		139,009
SELF-REGULATORY CONTROL AND HABIT LEARNING IN ADOLESCENTS WITH BULIMIA NERVOSA	93.242	5 K01 MH077652-05		134,749
CHARACTERIZATION OF A NOVEL 5-HT1A RECEPTOR AGONIST PET LIGAND	93.242	5 K08 MH076258-05		132,201
MULTIMODAL NEUROIMAGING FOR MAPPING DECISION MAKING IN THE HUMAN BRAIN	93.242	5 R01 MH085092-03 SHI		129,185
USING MULTIMEDIA AND DIGITAL TECHNOLOGIES IN THE DISSEMINATION OF AN HIV/STI PREVENTION INTERVENTION	93.242	5 R01 MH080659-05 SC1		116,879
BIOLOGICAL PREDICTORS OF RESPONSE TO ANTIDEPRESSANTS	93.242	5 R01 MH074813-05		111,385
DEVELOPMENT OF MULTIMODAL TREATMENT FOR LATE LIFE GENERALIZED ANXIETY DISORDER	93.242	5 R34 MH077156-03		105,063
METACOGNITION AND CONTROL IN HUMAN LEARNING MEMORY	93.242	5 R01 MH060637-08R1		104,877
CYTOKINE-INDUCED DEPRESSION & THE SEROTONIN TRANSPORTER	93.242	5 R21 MH067693-03 R2		89,878
1/4 OPTIMIZING TREATMENT FOR COMPLICATED GRIEF	93.242	5 R01 MH060783-07 R1		85,322
1/4 OPTIMIZING TREATMENT FOR COMPLICATED GRIEF	93.242	5 R01 MH060783-08 SC1		82,844
NEUROBIOLOGY OF DEPRESSION AND ANTIDEPRESSANTS	93.242	5 R01 MH040695-19		76,711
NEURAL MECHANISMS OF LONG-TERM PLANNING	93.242	5 R03 MH091590-02		75,380
CHILD/ADOLESCENTANXIETY MULTIMODAL EXTENDED LONG-TERM STUDY	93.242	5 R01 MH064092-08		71,528
ELUCIDATION OF GENE NETWORKS UNDERLYING SUSCEPTIBILITY TO SCHIZOPHRENIA	93.242	5 R01 MH077235-03		70,726
TRANSLATIONAL RESEARCH TRAINING IN CHILD PSYCHIATRY	93.242	3 T32 MH016434-31S1		61,297
COGNITIVE MECHANISMS OF SERIALY ORGANIZED BEHAVIOR	93.242	5 R01 MH081153-04 SUP		54,453
BEHAVIORAL CHANGE IN THE MOTHER-INFANT DYAD: PREVENTING POSTPARTUM DEPRESSION	93.242	1 R21 MH092665-01		45,428
COMPLICATED GRIEF TREATMENT IN ELDERLY ADULTS	93.242	5 R01 MH070741-05 PSY		40,531
PATTERN ANALYSIS OF BRAIN INTERACTIVITY TO PREDICT IMPLICIT EMOTION PERCEPTION	93.242	1 F31 MH088104-01A1		36,642

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NEUROPHYSIOLOGICAL CORRELATES OF EMOTIONAL MODULATION OF VISUAL PERCEPTION	93.242	5 F31 MH082612-03		34,681
MULTI-LEVEL DETERMINANTS OF LATE ART INITIATION IN SUB-SAHARAN AFRICA	93.242	3 R01 MH089831-01A1 S1		29,871
POSTNATAL SSRI TREATMENT: EFFECTS ON SEROTONERGIC PROJECTIONS AND GENE EXPRESSION	93.242	5 F30 MH084531-02		26,015
POSTNATAL SSRI TREATMENT: EFFECTS ON SEROTONERGIC PROJECTIONS AND GENE EXPRESSION	93.242	1 F30 MH084531-01		18,522
COOPERATIVE CLINICAL AGREEMENT: HIV/AIDS RISK REDUCTION FOR AFRICAN AMERICAN COUPLES	93.242	5 U10 MH064395-08		17,785
MENTAL-ILLNESS STIGMA AND STATUS PROCESSES IN INTERPERSONAL INTERACTIONS	93.242	5 R01 MH079162-02		12,884
AUTOMATED FALL AND INJURY RISK ASSESSMENT FOR BEHAVIORAL HEALTH (AFIP-BH)	93.242	5 R03 MH078071-02 R2		12,576
INDIA BILATERAL COLLABORATIVE RES ON PREVENTION OF HIV/AIDS	93.242	1 R34 MH078719 A		11,866
2/8 PROLONGING REMISSION IN DEPRESSED ELDERLY (PRIDE)	93.242	5 U01 MH084241-02 SC1		7,782
1/4 OPTIMIZING TREATMENT FOR COMPLICATED GRIEF	93.242	5 R01 MH060783-08		7,330
RESEARCH TRAINING IN CHILD PSYCHIATRY	93.242	5 T32 MH016434-30		7,246
ANALYZING THE ROLE OF ADULT HIPPOCAMPAL NEUROGENESIS IN CONTEXTUAL FEAR MEMORY	93.242	5 K99 MH083943-02		6,146
ADOLESCENT DEVELOPMENT OF EMOTION REGULATION MECHANISMS	93.242	1 F31 MH094056-01		5,923
MEDIUM SPINY NEURON EXCITABILITY AND MOTIVATION	93.242	1 R01 MH093672-01		5,823
NONCARDIAC CHEST PAIN IN CHILDREN AND ADOLESCENTS	93.242	5 R01 MH067912-03		5,805
DEVELOPMENT OF AGONIST PET TRACERS FOR QUANTIFYING 5HT2AR	93.242	1 R21 MH091470-01		5,201
HIV/STI RISK AMONG MIGRANT MARKET WORKERS IN KAZAKHTAN	93.242	1 R01 MH082684-01A1 RNT		4,620
RESEARCH TRAINING IN CHILD PSYCHIATRY	93.242	5 T32 MH016434-29		3,870
PATTERN ANALYSIS OF BRAIN INTERACTIVITY TO PREDICT IMPLICIT EMOTION PERCEPTION	93.242	5 F31 MH088104-02		3,775
NEUROBEHAVIORAL SCIENCES RESEARCH TRAINING PROGRAM	93.242	5 T32 MH08015174-33		1,804
DISTINCT FUNCTION OF THE NEUROLIGIN 3 POSTSYNAPTIC ADHESION COMPLEX	93.242	5 F30 MH083473-03		1,368
ROLE OF KLF9 IN HIPPOCAMPAL CIRCUIT MATURATION AND ANXIETY BEHAVIOR	93.242	5 F31 MH081473-02		1,262
DEVELOPMENTAL NEUROSCIENCE AND BEHAVIOR	93.242	5 T32 MH018264-26		787
GENETIC ANALYSIS--PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.242	2 T32 MH065213-06		8
ASSET OWNERSHIP DEVELOPMENT AMON HIV ORPHANED CHILDREN	93.242	5 R21 MH076475-02		-2
2/8 PROLONGING REMISSION IN DEPRESSED ELDERLY (PRIDE)	93.242	5 U01 MH084241-02R1		-38
NEUROPHYSIOLOGICAL CORRELATES OF EMOTIONAL MODULATION OF VISUAL PERCEPTION	93.242	5 F31 MH082612-02		-148
PROCESSING DYNAMICS OF REJECTION SENSITIVITY	93.242	5 R01 MH069703-05		-167
1/4 OPTIMIZING TREATMENT FOR COMPLICATED GRIEF	93.242	2 R01 MH060783-06A1		-202
REDUCING TEEN RISKY BEHAVIOR: A CLINIC-BASED APPROACH	93.242	5 R34 MH079719-03		-655
GENETIC ANALYSIS: PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.242	5 T32 MH065213-07		-1,020
GENETIC ANALYSIS: PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.242	5 T32 MH065213-08		-5,471
GENE EXPRESSION ANALYSIS OF APLYSIA NEURAL NETWORK	93.242	5 R01 MH075026-05		-120,765
				20,540,283
Nat. Inst. on Alcohol Abuse & Alcoholism				
EPIDEMIOLOGIC STUDIES OF ALCOHOL USE DISORDERS (ONGOING)	93.271	5K05 AA014223-09		168,259
				168,259

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Alcohol Research Programs				
DORSAL RAPHE NUCLEUS SEROTONIN NEURONS IN ALCOHOLISM	93.273	5 R01 AA11293-11		456,551
ALCOHOL AND GABA IN THE THALAMUS	93.273	5 R01 AA016393-06		285,150
ROLE OF THE GUT MICROBIOTA AND TLR4 IN ALCOHOLIC HEPATOCARCINOGENESIS	93.273	1 R01 AA020211-01		266,140
ALCOHOL IN AVIATION AND MOTOR CARRIERS	93.273	5 R01 AA009963-16		241,029
ALCOHOL AND DOPAMINE RELEASE: CELLULAR AND SYNAPTIC MECHANISMS	93.273	5 R01 AA019801-02		191,038
ECONOMICALLY DISADVANTAGED YOUTH AND ALCOHOL ABUSE PREVENTION	93.273	5 R01 AA011924-10		190,471
ALCOHOL, GILAL GENE EXPRESSION AND THE HEAT SHOCK PATHWAY	93.273	5 R21 AA018783-02		177,058
ALCOHOL AND DOPAMINE RELEASE: CELLULAR AND SYNAPTIC MECHANISMS	93.273	5 R01 AA019801-02	SC1	149,268
BRIEF ALCOHOL AND HIV PREVENTION FOR HOMELESS ADOLESCENTS WHO EXITED FOSTER CARE	93.273	5 R21 AA017862-02		136,080
HIGH-USE ALCOHOL VENUES: TOURISM, SEX WORK AND HIV IN THE DOMINICAN REPUBLIC	93.273	5 R21AA018078-02		24,045
HIV/STI PREVENTION AMONG ALCOHOL ABUSING WOMEN IN MONGOLIA	93.273	5 R21 AA01628601-02		-3,709
				2,113,121
National Institute on Drug Abuse				
NEUROPSYCHOLOGICAL EFFECTS OF BINGE-SMOKED COCAINE	93.277	5 K01 DA019933-05		189,211
DRUG ABUSE TREATMENT DEVELOPMENT AND RESEARCH MENTORING	93.277	5 K24 DA022412-05		165,266
BRIDGING EFFICACY AND EFFECTIVENESS IN DRUG ABUSE TREATMENT	93.277	5 K02 DA023200-04		128,207
MOLECULAR DETERMINANTS FOR THE ACTION OF PSYCHOSTIMULANTS	93.277	5 K05 DA022413-05		101,572
				584,256
National Institute on Drug Abuse				
UNDERSTANDING RISK-TAKING BEHAVIOR: ACUTE OF INTRANASAL METHAMPHETAMINE	93.278	5 F31 DA023883-04		20,184
UNDERSTANDING RISK-TAKING BEHAVIOR: ACUTE OF INTRANASAL METHAMPHETAMINE	93.278	5 F31 DA023883-03		3,526
				23,710
Drug Abuse and Addiction Research Programs				
MULTIMEDIA HIV/STI PREVENTION FOR DRUG-INVOLVED FEMALE OFFENDERS	93.279	5 R01 DA025878-04		899,073
HEALTH AND PSYCHOSOCIAL NEED - CHILDREN WITH DEVELOPMENTAL DISABILITIES IN TIME OF HIV	93.279	5 R01 DA023697-05		718,735
ASSESS THE EFFECTS OF ETS ON NEURODEVELOPMENT	93.279	5 R01 DA027100-02		662,913
MOLECULAR MECHANISMS OF BACTERIAL HOMOLOGS OF NEUROTRANSMITTER SODIUM SYMPORTERS	93.279	5 R01 DA017293-08		599,280
A MOLECULAR ANALYSIS OF THE GATEWAY HYPOTHESIS IN MICE	93.279	5 R01 DA024001-05		578,943
COUPLES-BASED HIV/STI PREVENTION FOR INJECTING DRUG USERS IN KAZAKHSTAN	93.279	5 R01 DA 022914-04		537,404
AMPA RECEPTORS: COMMON ROLE IN OPIATE WITHDRAWAL AND PAIN SENSITIVITY	93.279	5 R01 DA027460-02		535,841
RESEARCH FELLOWSHIP IN SUBSTANCE ABUSE DISORDER	93.279	5 T32 DA007294-18		423,680
MODAFINIL AND DRD4 GENOTYPE IN A HUMAN LABORATORY MODEL OF COCAINE RELAPSE	93.279	5 R01 DA023650-04		401,196
COUPLES-BASED HIV/STI PREVENTION FOR INJECTING DRUG USERS IN KAZAKHSTAN	93.279	5 R01 DA022914-04	OFF	362,851
PHARMACY REFERRAL INTERVENTION: IDU ACCESS TO SERVICES	93.279	7 R01 DA022144-05		324,761
POST EXPOSURE PROPHYLAXIS AMONG IDU SYRINGE CUSTOMERS - PHARMACY PILOT INTERVENTION	93.279	5 R01 DA030253-02		324,637
SEX DIFFERENCES IN STRESS & IMPULSIVITY IN COCAINE ABUSERS	93.279	5 R01 DA021242-04		316,137

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PRESYNAPTIC MECHANISMS IN DOPAMINE NEUROTRANSMISSION	93.279	5 R01 DA007418-18		301,863
MECHANISMS UNDERLYING OPIATE-INDUCED NEUROPLA	93.279	5 R01 DA025036-03		289,587
MULTI-SITE CONTROLLED TRIAL OF COCAINE VACCINE (6 OF 6) COLUMBIA UNIVERSITY SITE	93.279	5 R01 DA025250-02		272,705
ECSTASY "EPIDEMIC" AND YOUTH: TRENDS, COMORBIDITY, RISK AND PROTECTIVE FACTORS	93.279	5 R01 DA020733-03 R1		259,833
ADOLESCENT VULNERABILITY TO PSYCHOSTIMULANTS: EFFECTS OF SEX AND FOOD RESTRICTION	93.279	5 K01 DA024115-04		217,363
NICOTINE DEPENDENCE IN EARLY ADULTHOOD	93.279	5 R01 DA26305-03		217,228
AMYGDALA NEURONS AND COCAINE	93.279	5 R01 DA017727-06S1		208,434
A COGNITIVE MODEL OF INCENTIVE SALIENCE IN NON-HUMAN PRIMATES	93.279	5 R21 DA030095-02		204,167
ROLE OF INTRONIC VARIANTS AFFECTING SPLICING IN JUVENILE MYOCLONIC EPILEPSY	93.279	5 R03 DA027020-02		199,190
SEX DIFFERENCES & IMPULSIVITY: EFFECT OF DRUG HISTORY & STIMULANT ADMINISTRATION	93.279	5 K01 DA022282-05		189,053
GLUTAMATERGIC MODULATION OF EXPOSURE THERAPY IN CIGARETTE SMOKING	93.279	5 K23 DA025735-03		187,742
THE NEURAL BASES OF AFFECT REGULATION IN DRUG ABUSE	93.279	5R01DA022541-05		177,577
SERVICE USE, ATI PROGRAM OUTCOMES, AND PRO-SOCIAL CHANGE	93.279	5 R01 DA019496-04		167,571
ANTICONVULSANT PHARMACOTHERAPY FOR SEDATIVE-HYPNOTIC USE DISORDERS	93.279	5 K23 DA021209-05		166,123
AN EXPERIMENTAL MODEL OF HUMAN LANGUAGE AND COGNITION IN DRUG DEPENDENCE	93.279	5 K23 DA021850-05		164,460
IMAGING DOPAMINE TRANSMISSION IN CANNABIS DEPENDENCE	93.279	5 R01 DA022455-04		151,162
SUBSTANCE ABUSE TREATMENT DEVELOPMENT AND CLINICAL RESEARCH MENTORING	93.279	5 K24 DA029647-02		129,821
USING PET TO IMAGE THE NEUROCHEMISTRY OF ADDICTION	93.279	5 K02 DA026525-03		128,222
EPIDEMIOLOGICAL/FAMILIAL ASPECTS OF DRUG USE	93.279	5 K05 DA000081-30		128,202
IMPROVING DRUG ABUSE TREATMENT BY RESEARCH AND TRAINING	93.279	5 K05 DA014284-10		127,110
CORTICAL AND STRIATAL DOPAMINE DYSFUNCTION IN ADDICTION AND SCHIZOPHRENIA	93.279	5 K02 DA026075-07		127,006
ROLE OF DEPRESSION AND ANXIETY IN THE TOBACCO EPIDEMIC	93.279	5 R01 DA020892-04		102,056
SOCIAL PREDICTORS TRANSITION INTO INJECTION DRUG USE	93.279	5 R01 DA019964-05		90,324
TESTING A COMPREHENSIVE MODEL OF THE DIFFUSION OF EVIDENCE-BASED PRACTICES	93.279	1 R01 DA030459-01		86,569
IMAGING THE NEUROCHEMISTRY OF NEGATIVE REINFORCEMENT IN COCAINE ABUSE	93.279	1 R01 DA027777-01		76,840
TRAJECTORIES OF SUBSTANCE USE AND COMORBID MENTAL ILLNESS	93.279	1 K01 DA030449-01		71,071
DRUG ABUSE PREVENTION: A MOTHER-DAUGHTER INTERVENTION	93.279	3 R01 DA017721-05S1		62,035
EFFECTIVENESS OF MANDATORY PRESCRIPTION DRUG MONITORING	93.279	1 R21 DA0296670-01A1		53,416
ASENZE - MINORITY SUPPLEMENT	93.279	5 R01 DA023697-05 S1		44,493
NEURAL SYSTEMS OF LEARNING AND MEMORY IN ADDICTION	93.279	1 R03 DA026957-01		39,856
ADHERENCE TO BUPRENORPHINE/NALOXONE IN OPIOID DEPENDENT INDIVIDUALS AND ITS CORRELATES: AN EXPERIMENTAL STUDY ON INDIVID	93.279	NIDA CU10-2606		30,579
MULTIMEDIA HIV/STI PREVENTION FOR DRUG-INVOLVED FEMALE OFFENDERS	93.279	5 R01 DA025878-04 SCD		29,720
PRESYNAPTIC MECHANISMS IN DOPAMINE NEUROTRANSMISSION	93.279	3 R01 DA007418-16S1 SUP		25,340
ROLE OF INTRONIC VARIANTS AFFECTING SPLICING IN JUVENILE MYOCLONIC EPILEPSY	93.279	3 R03 DA027020-02S1 SUP		18,573
RESEARCH FELLOWSHIP IN SUBSTANCE ABUSE DISORDER	93.279	5 T32 DA007294-17		16,647
BASIC NEUROSCIENCE TRAINING GRANT AT COLUMBIA UNIVERSITY	93.279	2 T32 DA016224-06A1		8,802
COUPLES-BASED HIV/STI PREVENTION FOR INJECTING DRUG USERS IN KAZAKHSTAN	93.279	5 R01 DA022914-04 SC2		8,421

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ECSTASY "EPIDEMIC" AND YOUTH: TRENDS, COMORBIDITY, RISK AND PROTECTIVE FACTORS	93.279	5 R01 DA020733-03R1 SC1		8,376
TREATMENT OF SUBSTANCE ABUSE AND PSYCHIATRIC COMORBIDITY	93.279	5 K02 DA000465-10		6,081
RESEARCH FELLOWSHIP IN SUBSTANCE ABUSE DISORDER	93.279	5 T32 DA007294-19		434
HIV/STI PREVENTION FOR DRUG-INVOLVED COUPLES	93.279	5 R01DA016993-05 A		-1
DRUG ABUSE PREVENTION: A MOTHER-DAUGHTER INTERVENTION	93.279	3 R01 DA017721-05S1 SUP		-1
RESEARCH FELLOWSHIP IN SUBSTANCE ABUSE DISORDER	93.279	5 T32 DA007294-16		-1,895
INTRAVENOUS COCAINE ABUSE TREATMENT--A LABORATORY MODEL	93.279	5 R01 DA06234-15		-24,313
				11,453,293

Mental Health Research Career/Scientist Development Awards

NEGATIVE SYMPTOMS OF SCHIZOPHRENIA: FROM PHENOMENOLOGY TO TARGETED TREATMENT	93.281	5 K23 MH076976-05		270,125
COGNITIVE NEUROSCIENCE OF ANOREXIA NERVOSA	93.281	5 K23 MH076195-05		201,965
MODELING SCHIZOPHRENIA IN MICE BY ALTERED EXPRESSION OF NEUREGULIN 1 (NRG1)	93.281	5 K08MH90397-02		179,637
PSYCHOSIS IN SCHIZOPHRENIA: MECHANISMS OF RECOVERY	93.281	5 K23 MH077653-05		174,777
THE CONTRIBUTION OF ADULT-BORN TO HIPPOCAMPAL STRUCTURE AND CONNECTIVITY	93.281	5 K08 MH079088-05		166,822
RESEARCH SCIENTIST DEVELOPMENT AWARD: PROMOTING COMMUNITY COLLABORATION IN HIV RESEARCH	93.281	5 K01 MH081787-05		166,167
NEUROIMAGING OF FATTY ACIDS IN MAJOR DEPRESSION	93.281	5 K08 MH079033-04		163,936
PREVENTION FOR SYMPTOMATIC OFFSPRING OF BIPOLAR PARENTS	93.281	5 K23 MH071530-05R1		157,416
HIPPOCAMPAL NEUROGENESIS: MECHANISMS OF ANTIDEPRESSANT ACTION	93.281	5 K08 MH076083-05		156,947
BULIMIA NERVOSA AND DOPAMINE: A LINK TO ADDICTIONS?	93.281	5 K23 MH082097-04		152,827
EPIDEMIOLOGY OF PRENATAL FACTORS AND ADULT PSYCHOPATHOLOGY	93.281	5 K02 MH065422-09		134,462
AN FMRI STUDY OF THE BRAIN CIRCUITRY OF SAD EMOTION IN BEREAVEMENT	93.281	5 K08 MH080377-03		132,681
STATISTICAL METHODS FOR PREDICTING SUICIDE ATTEMPTS	93.281	5 K25 MH074068-05		129,029
INTRINSIC MOTIVATION AND LEARNING IN SCHIZOPHRENIA	93.281	1 K23 MH086755-01A2		87,446
ENHANCING PATIENT-ORIENTED RESEARCH AND TRAINING IN OCD	93.281	5 K24 MH091555-02		87,244
EE AND STIGMA AMONG CHINESE-AMERICANS WITH SCHIZOPHRENIA	93.281	5 KO1 MH073034-05		58,245
IMPROVING CHILD PSYCHIATRISTS CLINICAL DECISION-MAKING	93.281	5 K23 MH071337-05		23,656
EXCITATORY CONTROLS OF EATING IN EATING DISORDERS	93.281	5 K23 MH071285-05		21,635
MRI IN CHILDHOOD NEUROPSYCHIATRIC DISORDERS	93.281	5 K02 MH074677-05		15,429
HOW THE LARGE-SCALE ORGANIZATION OF GENE EXPRESSION RELATES TO BEHAVIOR	93.281	1 K08 MH080228-01A2		-11,090
MATERNAL POST TRAUMATIC STRESS DISORDER AND INTERACTIVE BEHAVIOR WITH CHILDREN	93.281	5 K23 MH068405-05		-30,826
				2,438,530

Mental Health National Research Service Awards for Research Training

RESEARCH TRAINING PROGRAM IN PSYCHIATRIC EPIDEMIOLOGY	93.282	5 T32 MH013043-39		503,798
TRAINING IN SCHIZOPHRENIA AND PSYCHOTIC DISORDERS: FROM ANIMAL MODELS TO PATIENTS	93.282	2 T32 MH18870-23		352,386
RESEARCH TRAINING IN MOOD AND ANXIETY DISORDERS: FROM ANIMAL MODELS TO PATIENTS	93.282	5 T32 MH015144-33 RE		302,572
RESEARCH TRAINING IN LATE-LIFE NEUROPSYCHIATRIC DISORDERS	93.282	5 T32 MH020004-12		162,568
DOPAMINE D2 RECEPTORS OVEREXPRESSIONS, ADENOSINE A2A RECEPTORS, AND MOTIVATION	93.282	1 F32 MH090750-01A1		43,572

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NETWORK DYNAMICS OF VHIP-AMYGDALA-MPFC CIRCUIT IN INNATE AND LEARNED ANXIETY	93.282	1 F32 MH088103-01		42,046
ANALYSIS OF THE ROLE OF HIPPOCAMPAL ADULT-BORN NEURONS IN BEHAVIOR AND PHYSIOLOGY	93.282	5 F31 MH084529-02		40,696
EFFECTS OF HIV-1 MA DOMAIN ON GAG MULTIMERIZATION AND VIRAL ASSEMBLY IN MICE	93.282	5 F31 MH085612-03		37,850
NEURONAL OSCILLATION AS A TOOL FOR SELECTIVE ATTENTION	93.282	1 F32 MH093061-01 RE		29,952
HIV RISK IN URBAN POPULATION OF BLACK MEN WHO HAVE SEX WITH MEN AND WOMEN	93.282	1 F31 MH087125-01A1		27,108
SOCIAL DETERMINANTS OF HIV RISK AND VULNERABILITY AMONG BLACK MSM IN SOUTH AFRICA	93.282	1 F31 MH088943-01A1		26,769
MIRNA REGULATION OF CPEB AND ITS ROLE IN SYNAPSE- SPECIFIC FACILITATION AND MEMORY	93.282	5 F30 MH086267-02		25,812
MIRNA REGULATION OF CPEB AND ITS ROLE IN SYNAPSE- SPECIFIC FACILITATION AND MEMORY	93.282	1 F30 MH086267-01A1		23,049
EPIGENETIC PROFILING OF MAJOR DEPRESSION	93.282	5 F30 MH085471-03		23,001
BEYOND ALLERGY: MAST CELLS MEDIATE BRAIN-BEHAVIOR-IMMUNE INTERACTIONS	93.282	5 F31 MH084384-02		22,369
EPIGENETIC PROFILING OF MAJOR DEPRESSION	93.282	5 F30 MH085471-02		14,219
RESEARCH TRAINING PROGRAM IN PSYCHIATRIC EPIDEMIOLOGY	93.282	5 T32 MH013043-38		13,006
NETWORK DYNAMICS OF VHIP-AMYGDALA-MPFC CIRCUIT IN INNATE AND LEARNED ANXIETY	93.282	1 F32 MH088103-02		12,087
RESEARCH TRAINING IN MOOD AND ANXIETY DISORDERS: FROM ANIMAL MODELS TO PATIENTS	93.282	5 T32 MH015144-32		11,363
MINORITY PREDOCTORAL RESEARCH TRAINING PROGRAM IN HOMELESS MENTAL HEALTH	93.282	5 F31 MH082621-03		5,224
SCHIZOPHRENIA RESEARCH FELLOWSHIP	93.282	5 T32 MH018870-21		3,328
MINORITY PREDOCTORAL RESEARCH TRAINING PROGRAM IN HOMELESS MENTAL HEALTH	93.282	5 F31 MH082621-02		2,450
SCHIZOPHRENIA RESEARCH FELLOWSHIP	93.282	5 T32 MH018870-20		1,042
BEYOND ALLERGY: MAST CELLS MEDIATE BRAIN-BEHAVIOR-IMMUNE INTERACTIONS	93.282	1 F31 MH084384-01A1		627
BEHAVIORAL SCIENCES RESEARCH IN HIV INFECTION	93.282	5 T32 MH019139-20		-982
SCHIZOPHRENIA RESEARCH FELLOWSHIP	93.282	5 T32 MH018870-22		-3,403
RESEARCH TRAINING IN LATE-LIFE NEUROPSYCHIATRIC DISORDERS	93.282	2 T32 MH020004-11A1		-4,073
ANALYSIS OF THE ROLE OF HIPPOCAMPAL ADULT-BORN NEURONS IN BEHAVIOR AND PHYSIOLOGY	93.282	1 F31 MH084529-01A1		-4,318
				1,714,118

Discovery and Applied Research for Technological Innovations to Improve Human Health

RADIOLOGICAL RESEARCH ACCELERATOR FACILITY (RARAF)	93.286	5 P41 EB002033-15		845,796
OPTIMIZATION OF ULTRASOUND-FACILITATED BLOOD-BRAIN BARRIER OPENING	93.286	5 R01 EB009041-03		420,938
TRACKING STEM CELLS IN ENGINEERED TISSUE AND ORGANS IN VIVO AND IN REAL TIME	93.286	R01 EB009663-02		392,411
MECHANISMS OF MECHANICAL TRANSDUCTION BY CYTOSKELETONS	93.286	5 R01 EB001480-08R1		388,876
STEM CELL BASED SOFT TISSUE RECONSTRUCTION	93.286	5 R01 EB006261-04		301,791
EARLY DETECTION AND MAPPING OF ISCHEMIA USING MYOCCARDIAL ELASTOGRAPHY	93.286	5 R01 EB006042-05		247,414
SILK HYDROGEL FOR FUNCTIONAL CARTILAGE TISSUE ENGINEERING	93.286	5 R21 EB011869-02R1		221,371
IMMUNE-SHIELDED, ULTRASOUND-STIMULATED CONTRAST AGENTS FOR MOLECULAR IMAGING	93.286	5 R01 EB009066-02		216,335
FUNCTIONAL REGRESSION MODELS WITH PLLICATION IN BRAIN IMAGING STUDIES.	93.286	5 R01 EB009744-02		202,486
RADIOLOGICAL RESEARCH ACCELERATOR FACILITY (RARAF)	93.286	2 P41 EB002033-14		179,202
MODULATION OF T CELL FUNCTION BY PATTERNING OF COSTIMULATORY LIGANDS	93.286	5 R21 EB008199-02R1		146,611
MECHANOBIOLOGICAL MECHANISM FOR INFLAMMATORY BONE LOSS	93.286	5 R01 EB006834-04		113,242

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
STEM CELL BASED SOFT TISSUE RECONSTRUCTION	93.286	5 R01 EB006261-04 SC1		100,876
RADIOLOGICAL RESEARCH ACCELERATOR FACILITY (RARAF)	93.286	5 P41 EB002033-15 SC1		84,101
MULTIVARIATE APPROACHES TO NEUROIMAGING ANALYSIS	93.286	5 R01 EB0062404-03		52,839
IMAGE GUIDED IN VIVO TOOLING PLATFORM FOR MINIMAL ACCESS SURGERY	93.286	5 R21 EB007779-02 PJ2		20,232
OPTIMIZATION OF ULTRASOUND-FACILITATED BLOOD-BRAIN BARRIER OPENING	93.286	5 R01 EB009041-03 BRO		19,734
REAL TIME MOTION CORRECTION FOR BRAIN MRI	93.286	5 R21 EB006877-02		15,460
RADIOLOGICAL RESEARCH ACCELERATOR FACILITY (RARAF)	93.286	2 P41 EB002033-14		11,955
IMAGE GUIDED IN VIVO TOOLING PLATFORM FOR MINIMAL ACCESS SURGERY	93.286	5 R21 EB007779-02 PJ1		11,111
BMES-SPRBM CONFERENCE ON CELLULAR AND MOLECULAR BIOENGINEERING	93.286	1 R13 EB012902-01		9,450
IMAGE GUIDED IN VIVO TOOLING PLATFORM FOR MINIMAL ACCESS SURGERY	93.286	5 R21 EB007779-02 PJ3		7,711
APTAMERIC MODULATORS OF RELAXIVITY OF MRI CONTRAST AGENTS	93.286	1 R21 EB013347-01		7,015
OPTIMIZATION OF ULTRASOUND-FACILITATED BLOOD-BRAIN BARRIER OPENING	93.286	5 R01 EB009041-03 VAU		4,200
REAL TIME MOTION CORRECTION FOR BRAIN MRI	93.286	5 R21 EB006877-02 SC SC1		145
IMAGE GUIDED IN VIVO TOOLING PLATFOEM FOR MINIMAL ACCESS SURGERY	93.286	5 R21 EB007779-02		-185
DEVELOPMENT OF A NOVEL TMS DEVICE WITH CONTROLLABLE PULSE	93.286	5 R21 EB006855-02		-2,322
EARLY DETECTION OF ACUTE ISCHEMIA USING MYOCARDIAL ELASTOGRAPHY	93.286	5 R01 EB006042-03R1		-10,856
A NOVEL SYSTEM FOR SIMULTANEOUS GENERATION AND MONITORING OF TUMOR ABLATION	93.286	05 R21 EB008521-02		-34,983
				3,972,956

Minority Health and Health Disparities Research

COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-08		567,835
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITIES	93.307	2 P60 MD000206-08S1		346,525
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-08 CO CO1		213,396
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-08 PJ2		205,957
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-08		182,263
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITES (CHUM)	93.307	2 P60 MD000206-09		151,782
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITES (CHUM)	93.307	5 P60 MD000206-09		112,785
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITES (CHUM)	93.307	5 P60 MD000206-09		66,058
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITES (CHUM)	93.307	5 P60 MD000206-09		4,556
				1,851,157

Trans-NIH Research Support

NIH PIONEER'S AWARD	93.310	5 DP1 OD003635-04		892,580
NIH DIRECTOR'S PIONEER AWARD	93.310	5 DP1 OD000114-06		855,646
GENETIC VARIATION AND REGULATORY NETWORKS: MECHANISMS AND COMPLEXITY	93.310	3DP2 OD002414-01S1		757,914
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-05		744,790
EPIGENETIC MECHANISMS MEDIATING THE INHERITANCE OF REPRODUCTIVE BEHAVIOR	93.310	1 DP2 OD001674-01		665,501
EPIGENOMICS OF ALZHEIMER'S DISEASE	93.310	5 R01 AG036040-02		643,605
INVESTIGATING THE POTENTIAL OF ENDOGENOUS RNAI IN MEDIATING ADAPTATION TO ENVIRONMENT	93.310	1 DP2 OD006412-01		575,811

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CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-05 PJ		96,267
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-04 CO		67,282
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-05 PJ		66,215
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-05 TU		10,157
DEVELOPMENT OF THE HTS ASSAY FOR VISUAL CYCLE INHIBITORS	93.310	1 R21 NS067594-01		5,340
				5,381,108
Nursing Research				
IMPROVING ANTIMICROBIAL PRESCRIBING PRACTICES IN THE NEONATAL INTENSIVE CARE UNIT	93.361	5 R01 NR010821-04		659,534
PREVENTION OF NOSOCOMIAL INFECTIOUS AND COST-EFFECTIVENESS REFINED (P-NICER)	93.361	5 R01 NR010107-05		644,705
MATERNAL AND CHILD OUTCOMES OF A PRISON NURSERY PROGRAM	93.361	5 R01 NR007782-08		433,615
IMPROVING ANTIMICROBIAL PRESCRIBING PRACTICES IN THE NEONATAL INTENSIVE CARE UNIT	93.361	5 R01 NR010821-04 SC1		414,732
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UND	93.361	5 P30 NR010677-04		413,123
FROM CELL TO SOCIETY: A NEW METHOD TO CHARACTERIZE CARDIAC AUTONOMIC CONTROL	93.361	5 R21 NR010858-04		220,576
TRAINING IN INTERDISCIPLINARY RESEARCH TO REDUCE ANTIMICROBIAL RESISTANCE (TIRAR)	93.361	5 T90 NR010824-04		218,729
DISTRIBUTION OF THE COSTS OF ANTIMICROBIAL RESISTANT INFECTION	93.361	5 R01 NR010822-05		211,561
REDUCING HEALTH DISPARITIES THROUGH INFORMATICS	93.361	5 T32 NR007969-09		124,799
DISTRIBUTION OF THE COSTS OF ANTIMICROBIAL RESISTANT INFECTION	93.361	5 R01 NR010822-05 SC1		107,748
A MULTIFACETED ADAPTIVE TESTING APPROACH TO HEALTH LITERACY IN OLDER ADULTS	93.361	5 R21 NR010710-02		65,574
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-04 SC2		40,588
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-04 SC1		27,169
ADAPTING CHAMP+ FOR SOUTH AFRICA: SUPPORTING HIV-INFECTED YOUTH AND FAMILIES	93.361	5 R21 NR010474-02		8,094
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-03 SC1		2,116
PSYCHOLOGICAL AND NEURAL MECHANISMS OF PAIN VALUATION	93.361	1 F32 NR012081-01A1		1,469
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-03 SC SC3		743
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-03 SC SC2		569
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-03		-970
PREVENTION OF NOSOCOMIAL INFECTIONS AND COST-EFFECTIVENESS ANALYSIS	93.361	5 R01 NR010107-03		-1,559
REDUCING HEALTH DISPARITIES THROUGH INFORMATICS	93.361	5 T32 NR07969-07		-1,569
TRAINING IN INTERDISCIPLINARY RESEARCH TO REDUCE ANTIMICROBIAL RESISTANCE (TIRAR)	93.361	5 T90 NR010824-03R1		-3,776
				3,587,570
National Heart, Lung, & Blood Institute				
MOLECULAR DETERMINANTS OF K+ CHANNEL REGULATION IN HEART	93.371	5 R01 HL044365-17		-4,692
				-4,692
National Center for Research Resources				
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05		2,120,393
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC2		1,852,181
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC1		1,146,709

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CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC3		851,487
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC6		757,864
MICRO-ULTRASOUND SCANNER FOR TRACKING GENETICALLY DRIVEN TUMOR MODELS	93.389	1 S10 RR025482-01A2		393,698
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC7		374,958
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC5		365,527
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC4		306,373
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-04		219,043
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (TL1)	93.389	5 TL1 RR024158-05		216,165
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-04 SC SC1		214,582
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC3		169,420
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC2		169,255
MICROFLUIDIC SELECTION OF APTAMERS FOR BIOLOGICAL PURIFICATION APPLICATIONS INSTITUTION: THE TRUSTEES OF COLUMBIA UNIVER	93.389	5 R21 RR025816-02		168,966
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC6		163,592
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05		162,325
PLUG AND PLAY BIOREACTOR	93.389	5 R21 RR026244-02		161,732
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC9		156,379
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC1		147,894
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC1		137,489
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC8		131,997
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05		110,761
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC5		84,714
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05		84,605
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05		84,325
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC4		47,572
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-05 SC8		40,000
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-02 SC SC6		39,584
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-05 SC1		38,833
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	3 UL1 RR024156-04 SC7		25,661
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (*SUBPROJECT*)	93.389	5 KL2 RR024157-04 SC SC2		23,790
DIFFERENCE GEL ELECTROPHORESIS SYSTEM FOR PROTEOMICS	93.389	1 S10 RR024728-01A1		10,686
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-04		9,179
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	3 UL1 RR024156-04S4		1,921
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (TL1)	93.389	5 TL1 RR024158-04		1,441
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (*SUBPROJECT*)	93.389	5 KL2 RR024157-04 SC6		336
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (*SUBPROJECT*)	93.389	5 KL2 RR024157-04 SC SC8		193
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-04		66
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (*SUBPROJECT*)	93.389	5 KL2 RR024157-04 SC SC7		-5

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CLINICAL AND TRANSLATIONAL SCIENCE AWARD (*SUBPROJECT*)	93.389	5 KL2 RR024157-04 SC4		-36
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-04 SC1		-71
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-04 SC SC5		-735
CLINICAL TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-04 SC SC4		-1,580
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (KL2)	93.389	5 KL2 RR024157-04 SC1		-2,227
CLINICAL AND TRANSLATIONAL SCIENCE AWARD (UL1)	93.389	5 UL1 RR024156-04 SC SC2		-6,091
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-02 SC1		-28,548
				10,952,403
National Cancer Institute				
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC3		848,906
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		552,892
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06		549,193
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		233,196
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC4		211,609
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC7		180,628
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 CO		169,116
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05		131,251
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC		130,023
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC		120,110
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		80,287
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC2		75,978
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		73,993
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC5		73,567
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C40		56,925
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		53,841
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C32		50,344
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		49,286
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		48,218
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C39		33,447
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC6		25,232
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C24		23,017
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 SC1		20,614
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C13		19,609
NATIONAL CENTER: MULTISCALE ANALYSIS OF GENOMIC AND CELLULAR NETWORKS (MAGNET)	93.390	2 U54 CA121852-06 CCS		16,571
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C21		16,063
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C14		15,649
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C33		13,004

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NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 C22		6,263
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.390	5 U54 CA121852-05 S38		6,199
				3,885,031
Cancer Cause and Prevention Research				
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-17		525,623
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	2 P01 CA049062-19 PJ PJ2		518,965
FOLIC ACID AND CREATINE AS THERAPEUTIC APPROACHES FOR LOWERING BLOOD ARSENIC	93.393	5 R01 CA133595-03		498,129
AIDS ASSOCIATED LYMPHOPROLIFERATIVE DISORDERS	93.393	5 R37 CA037295-28		446,976
STEM CELLS AND GASTRIC CANCER	93.393	5 R01 CA120979-05		436,354
REGULATION OF THE DNA DAMAGE RESPONSE BY THE MRN-ATM PATHWAY	93.393	5 R01 CA092245-10		398,379
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	2 P01 CA049062-19 PJ1		372,064
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	2 P01 CA049062-19 TC TC		363,543
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	2 P01 CA049062-19 PJ3		357,814
MECHANISMS OF RADIORESISTANCE AND CELL CYCLE PROGRESSION	93.393	5 R01 CA130536-17		350,066
ROLE OF INFLAMMATION IN MOUSE MODELS OF GASTRIC CANCER	93.393	5 R01 CA093405-11		291,034
CONSTRUCTION AND ANALYSIS OF RETROVIRUS MUTANTS	93.393	5 R37 CA030488-31		272,667
ONCOGENIC ROLE OF PIK3CA HOTSPOT MUTATIONS	93.393	5 R01 CA129432-03		261,005
MOLECULAR EPIDEMIOLOGY AND LUNG CANCER: A NESTED CASE-CONTROL STUDY	93.393	5 R01 CA127532-04		231,255
NON- CANCER GENE ADDITION AS ANTICANCER STRATEGY	93.393	5 R01 CA153233-02		201,704
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA49062-20 ADM		195,025
DETERMINANTS AND RISKS OF USE AND OVERUSE OF EXPENSIVE ONCOLOGY DRUGS	93.393	5 R01 CA134964-04		173,747
CANCER SCREENING AMONG LATINAS	93.393	5 R21 CA134247-02		166,161
COLUMBIA - GHI CONSORTIUM FOR CLAIMS-BASED CANCER STUDIES	93.393	5 R21 CA114064-02		108,955
EARLY DETERMINANTS OF MAMMOGRAPHIC DENSITY	93.393	5 R01 CA104842-05		100,154
SERVING AS A LAY HEALTH ADVISOR: THE IMPACT ON SELF AND COMMUNITY	93.393	5 R03 CA150543-03		97,821
DIETARY FACTORS AND RISK OF PANCREATIC CENTER IN A POOLED ANALYSIS	93.393	5 U01 CA139578-03		65,477
LEGACY: A COHORT OF YOUTH IN FAMILIES FROM THE BREAST CANCER FAMILY REGISTRY	93.393	1 R01 CA138822-01A2		56,493
NAPHTHALENE EXPOSURE, CHROMOSOMAL ABERRATIONS IN POOR URBAN SCHOOL CHILDREN	93.393	1 U01 CA159157-01		37,211
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-17 SC1		32,022
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-18 PJ2		25,979
STATISTICAL METHODS FOR DNA METHYLATION DATA	93.393	5 R03 CA150140-02		24,371
DIETARY FACTORS AND RISK OF PANCREATIC CENTER IN A POOLED ANALYSIS	93.393	7 U01 CA139578-02		16,822
MIND-BODY BEHAVIORAL MEDICINE CLINICAL TRIALS INFRASTRUCTURE	93.393	5 R24 HL076857-05		10,987
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-18 PJ1		10,837
MICRORNA IN BLOOD AS AN EARLY BIOMARKER OF BREAST CANCER	93.393	1 R03 CA159427-01		10,578
THE ROLE OF PARC IN THE P53 PATHWAY	93.393	5 R01 CA104843-04		9,109
MOLECULAR BASIC FOR SPITZOID TUMORS	93.393	5 R03 CA133925-02		7,862

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RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-18 PJ3		6,879
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-16		4,953
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-18 TEC		3,361
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-16 SC1		933
BARDI PHOSPHORYLATION IN BREAST AND OVARIAN CANCER	93.393	5 R01 CA113891-04		-13,877
				6,677,438
Cancer Detection and Diagnosis Research				
IN VIVO 31P MRS STUDIES OF NON-HODGKIN'S LYMPHOMA	93.394	5 R01 CA118559-04		522,231
MAMMARY CARCINOMA AND GENOMIC METHYLATION	93.394	5 R33 CA143453-02		436,766
ENHANCED INTRAARTERIAL DELIVERY OF CHEMOTHERAPEUTIC DRUGS TO THE BRAIN	93.394	5 R01 CA127500-04		363,257
SMALL ANIMAL TOMOGRAPHY SYSTEM FOR GREEN FLUORESCENT PROTEIN IMAGING	93.394	5 R33 CA118666-04		297,876
OPTIMIZING MSNP FOR PROFILING DNA METHYLATION IN CANCERS AND PRECURSOR LESIONS	93.394	5 R21 CA125461-02		261,413
PREDICTING OUTCOME OF EXPERIMENTAL THERAPY IN LYMPHOMAS BY 31P & 1H MRS	93.394	5 R21 CA152858-02		162,305
EARLY PREDICTION OF PATHOLOGICAL RESPONSE OF CHEMORADIOTHERAPY WITH FLT PET	93.394	7 R21 CA121551-03		54,168
OPTICAL IMAGING OF CHEMOTHERAPY FOR BRAIN TUMOR	93.394	1 R01 CA138643-01A2		25,332
IN VIVO 31P MRS STUDIES OF NON-HODGKIN'S LYMPHOMA	93.394	5 R01 CA118559-04		7,782
GENOMIC AND EPIGENOMIC PROFILLING BY MSNP	93.394	5 R21 CA128556-02		257
				2,131,387
Cancer Treatment Research				
GVL WITHOUT GVHD ACROSS HLA BARRIERS: TRANSLATIONAL STUDIES	93.395	7 P01 CA111519-05		1,164,627
CHEMICAL GENETIC PROFILING OF ENGINEERED TUMOR CELLS	93.395	5 R01 CA097061-09		475,326
REGULATION OF LKB1 AND AMPK SIGNALING BY BRAF IN MELANOMA	93.395	5 R00 CA133245-04		336,306
GVL WITHOUT GVHD ACROSS HLA BARRIERS: TRANSLATIONAL STUDIES	93.395	7 P01 CA111519-05		314,111
GVL WITHOUT GVHD ACROSS HLA BARRIERS	93.395	7 P01 CA111518-05		281,155
ADVANCED ANATOMIC AND FUNCTINAL RESPONSE ASSESSMENT IN LUNG CANCER	93.395	5 R01 CA125143-05		209,516
IMPLEMENTING DIETARY CHANGE AMONG HISPANIC BREAST CANCER SURVIVORS	93.395	5 R21 CA152903-02		179,587
COLUMBIA-SOUTH AFRICA TRAINING PROGRAM FOR RESEARCH ON HIV-ASSOCIATED MALIGNANCIES	93.395	1 D43 CA153715-01		168,955
CHEMICAL GENETIC PROFILING OF ENGINEERING TUMOR CELLS	93.395	3 R01 CA097061-09S1		73,373
THERAPEUTIC SELF-ASSEMBLY OF RECOGNITION ELEMENTS ON CELL SURFACES	93.395	5 R21 CA128452-03		33,040
				3,235,996
Cancer Biology Research				
REGULATION OF THE P53 TUMOR SUPPRESOR PROTEIN	93.396	5 R01 CA058316-19		588,100
THE ROLE OF AKT SIGNALING IN NOTCH1 INDUCED LEUKEMIAS	93.396	5 R01 CA129382-04		513,570
MECHANISMS OF T-CELL LEUKEMOGENESIS INDUCED BY NOTCH1	93.396	5 R01 CA120196-05		468,435
THE ROLE OF BRCA1/BARD1 IN BASAL-LIKE BREAST CANCER	93.396	5 R01 CA137023-03		403,086
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-10		389,303
ROLES AND REGULATION OF P53 (PROJECT 1)	93.396	5 P01 CA087497-10 PRI		386,920

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THE UREB-1 UBIQUITIN LIGASE IN NEURAL STEM CELLS AND CANCER	93.396	5 R01 CA131126-04		373,430
LUNG EPITHELIAL-MESENCHYMAL INTERACTIONS IN ADENOCARCINOMA INVASION	93.396	5 R01 CA120174-05		361,320
LEADERSHIP COMPONENT IN CHEMOPREVENTION: MOUSE MODELS OF HUMAN CANCER CONSORTIUM	93.396	5 U01 CA141535-02		358,923
INHIBITOR OF DIFFERENTIATION-2 IN CELL CYCLE REGULATION AND CANCER	93.396	5 R01 CA085628-11		347,090
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	5 U01 CA084294-12		341,973
ROLES AND REGULATION OF P53 (PROJECT 4)	93.396	5 P01 CA087497-10	CR1	339,502
PROPERTIES AND REGULATION OF P53 IN TUMOR CELLS	93.396	5 R01 CA077742-11		337,955
MODELING ANDROGEN-INDEPENDENT PROSTATE CANCER IN MUTANT MICE	93.396	5 R01 CA0115717-05		336,796
ROLE OF TGFBI GENE IN CELL PROLIFERATION AND TUMOR PROGRESSION	93.396	5 R01 CA127120-04		327,630
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	5 U01 CA084294-12	SC2	314,858
DYNAMIC ROLES OF HAUSP IN P53/MDM2 REGULATION	93.396	5 R01 CA129627-05		289,592
MECHANISMS AND REGULATION OF POST-TRANSLATIONAL MODIFICATIONS OF ID PROTEINS	93.396	5 R01 CA127643-04		277,484
P53 ACETYLATION AND DEACETYLATION IN TUMORIGENESIS	93.396	5 R01 CA085533-09		268,946
VEGF BLOCKADE AND ALTERNATIVE ANGIOGENIC PATHWAYS IN NEUROBLASTOMA	93.396	5 R01 CA124644-04		254,132
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-05	PJ1	236,684
MECHANISMS OF MDM2/MDMX IN REPRESSING P53	93.396	5 R01 CA131439-03		232,553
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-09		214,325
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-05	PJ2	211,698
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	5 U01 CA084294-12		206,336
THE ROLE OF ID PROTEINS IN TUMOR DEVELOPMENT AND ANGIOGENESIS IN THE BRAIN	93.396	5 R01 CA101644-09		204,791
NOTCH SIGNALING IN LYMPHANGIOGENESIS	93.396	5 R01 CA136673-03		200,920
MUTUAL REGULATION OF PTEN AND P-REX2A IN NORMAL AND CANCER CELLS	93.396	1 R01 CA155117-01		195,340
ROLE OF ALPHA6BETA4 INTEGRIN IN EPIDERMAL CARCINOGENESIS	93.396	5 R01 CA114014-05		182,062
VEGF BLOCKADE AND ALTERNATIVE ANGIOGENIC PATHWAYS IN NEUROBLASTOMA	93.396	5 R01 CA124644-04S1	SUP	179,387
NOTCH SIGNALING IN LYMPHANGIOGENESIS	93.396	5 R01 CA136673-03	SC1	142,575
THE ROLE OF ATM IN SUPPRESSION OF LYMPHOMAS	93.396	1 R01 CA158073-01		136,234
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-05	PJ4	135,716
GENETIC APPROACHES TO NEXT-GENERATION BREAST CANCER THERAPY	93.396	5 R00 CA127772-04		134,325
THE ROLE OF PHF6 IN T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA	93.396	1 R01 CA155743-01		132,084
THE ROLE OF ARF-BP1 IN TUMORIGENESIS	93.396	5 R01 CA118561-05		121,639
MOUSE MODEL FOR HUMAN PANCREATIC DUCTAL ADENOCARCINOMA	93.396	2 R01 CA109525-07A1		117,708
GENETIC NETWORK INFERENCE WITH COMBINATIONAL PHENOTYPES	93.396	5 R01 CA109755-05		115,302
LEADERSHIP COMPONENT IN CHEMOPREVENTION: MOUSE MODELS OF HUMAN CANCER CONSORTIUM	93.396	1 U01 CA141535-01		101,165
MECHANISM OF THE STROMAL RESPONSE TO SMOOTHENED INHIBITION IN PANCREATIC CANCER	93.396	1 R01 CA157980-01		95,791
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04	PJ5	91,432
THE TUMOR-SUPPRESSIVE ROLE OF ALK4/ACVR1B IN PANCREATIC TUMORIGENESIS	93.396	5 R21 CA127701-02		77,333
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04	COA	74,846

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ROLES AND REGULATION OF P53 (COREB)	93.396	5 P01 CA087497-10 CR2		72,751
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-05 COB		66,503
PTEN TUMOR SUPPRESSOR AND SIGNAL TRANSDUCTION	93.396	5 R01 CA082783-10		53,067
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04 PJ PJ7		43,473
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-05 COA		38,244
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	5 U01 CA084294-12		31,119
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04R1 COB		24,385
REGULATION OF IMMUNE PRIVILEGE IN METASTATIC SQUAMOUS CELL CARCINOMA	93.396	5 R21 CA131897-02		22,898
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-09 PRI		22,144
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	5 U01 CA084294-12 SC1		19,255
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04 PJ PJ1		17,430
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	2 U01 CA084294-11		15,499
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	2 U01 CA084294-11		5,764
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-09 COR		5,536
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-03		4,036
ELUCIDATION OF CANCER PATHWAYS AND DRUGGABLE TARGETS USING MOUSE MODELS	93.396	2 U01 CA084294-11		3,590
MOLECULAR ANALYSIS OF METATATIC PROSTATE CANCER IN MICE	93.396	5 R01 CA115985-05		1,788
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04 PJ6		1,334
MOUSE MODEL FOR HUMAN PANCREATIC DUCTAL ADENOCARCINOMA	93.396	2 R56 CA109525-06		369
ROLE OF B-CELL LYMPHOMA (BCL6) MUTATION IN LYMPHOMAGENESIS	93.396	5 R01 CA107489-5		-252
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-09 COR		-1,221
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U 54CA126613-03 COA		-4,036
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-04 PJ2		-13,673
				11,249,294

Cancer Centers Support Grants

CANCER CENTER SUPPORT GRANT	93.397	5 P30 CA013696-37		4,257,879
CANCER CENTER SUPPORT GRANT	93.397	3 P30 CA013696-37S1		98,207
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.397	5 U54 CA121852-04 C3 C37		73,946
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.397	3 U54 CA126513-05S1 SUP		49,355
DEVELOPMENT CORE	93.397	5 U54 CA101598-05 DEC		39,527
NATIONAL CENTER: MULTI-SCALE STUDY- CELLULAR NETWORKS(RMI)	93.397	5 U54 CA121852-05		28,694
PILOT PROJECT 6	93.397	5 U54 CA101598-05 PP6		16,800
PILOT PROJECT - 3	93.397	5 U54 CA101598-05 P10		13,558
CHE ADMINISTRATIVE SUPPLEMENT	93.397	3 U54 CA101598-05 CHE		12,994
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.397	5 U54 CA126513-04S1 SCI		10,560
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR	93.397	5 U54 CA121852-05 C36		10,074
PLANNING AND EVALUATION CORE	93.397	5 U54 CA101598-05 PEC		6,328

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PILOT PROJECT 5	93.397	5 U54 CA101598-05 P12		5,855
PILOT PROJECT - 2	93.397	5 U54 CA101598-05 PP9		3,558
RECRUITMENT CORE	93.397	5 U54 CA101598-05 RMC		3,386
PILOT PROJECT - 4	93.397	5 U54 CA101598-05 P11		2,368
CANCER CENTER SUPPORT GRANT	93.397	5 P30 CA013696-38		1,792
BIOSTATISTICS CORE	93.397	5 U54 CA101598-05 BSC		113
PILOT PROJECT 8	93.397	5 U54 CA101598-05 PP1		28
PROJECT #7	93.397	5 U54 CA101598-05 PJ2		4
CANCERS IN OLDER MINORITY POPULATIONS - CARIBBEAN AMERICAN EMPHASIS	93.397	5 U54 CA101598-05		-2,897
CANCER CENTER SUPPORT GRANT	93.397	3 P30 CA013696-36S1		-112,650
				4,519,479

Cancer Research Manpower

CANCER BIOLOGY TRAINING PROGRAM	93.398	5 T32 CA009503-24		399,483
CANCER EPIDEMIOLOGY, BIostatISTICS AND ENVIRONMENTAL SCIENCES	93.398	5 T32 CA009529-23		325,960
THE ROLE OF DKK1, A WNT-INHIBITOR, IN MESENCHYMAL DIFFERENTIATION/SARCOMAGENESIS	93.398	5 K08 CA132986-03		311,493
EFFECTS OF ANTIOXIDANT SUPPLEMENTATION DURING BREAST CANCER ADJUVANT THERAPY	93.398	5 K23 CA141052-03		161,718
ROLE OF REPLICATION STRESS DURING MYCDEPENDENT LYMPHOMAGENESIS	93.398	5 K99 CA151827-02		154,231
CANCER BIOLOGY TRAINING PROGRAM	93.398	5 T32 CA009503-23		154,002
CANCER EPIDEMIOLOGY, BIostatISTICS AND ENVIRONMENTAL SCIENCES	93.398	5 T32 CA009529-22		30,814
ANALYSIS OF BRCA1 E3 UBIQUITIN LIGASE & PHOSPHOPEPTIDE BINDING ACTIVITY	93.398	5 F31 CA132626-04		16,303
ANALYSIS OF BRCA1 E3 UBIQUITIN LIGASE & PHOSPHOPEPTIDE BINDING ACTIVITY	93.398	5 F31CA132626-03		12,141
CELL, MOLECULAR AND DEVELOPMENTAL BIOLOGY OF CANCER	93.398	5 T32 CA009503-21A		-862
THE ROLE OF ANGIOPOIETINS IN WILMS TUMOR	93.398	5 K08 CA107077-05		-3,856
CELL, MOLECULAR AND DEVELOPMENTAL BIOLOGY OF CANCER	93.398	2 T32 CA009503-22		-17,182
				1,544,245

Family Violence Prevention and Services/Grants for Battered Women's Shelters_Grants to States and Indian Tribes

MECHANISMS OF OCULAR SURFACE CELL MOVEMENT	93.671	5 R01 EY015835-04		1,662
				1,662

Cardiovascular Diseases Research

NOVEL ION CHANNEL APPROACHES TO REENTRANT ARRHYTHMIAS	93.837	5 R01 HL094410-03		924,860
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS PROJECT	93.837	5 P01 HL054591-15		924,825
EXERCISE AND INFLAMMATION: AUTONOMIC, AFFECTIVE & CELLULAR MECHANISMS	93.837	5 R01 HL094423-03		865,029
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-17		862,025
MECHANISTIC DETERMINANTS OF PACING-INDUCED CARDIAC MEMORY	93.837	5 R01 HL067101-09		776,711
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-03		768,686
BIVENTRICULAR PACING AFTER CARDIOPULMONARY BYPASS	93.837	5 R01 HL080152-05		714,106
ABCG1 AND ENDOTHELIAL FUNCTION	93.837	1 R01 HL102395-01A1		634,830

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CARDIOPULMONARY STRUCTURE AND FUNCTION IN MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS	93.837	5 R01 HL077612-06		627,637
EXTRACELLULAR REGULATION OF LIPOPROTEIN LIPASE ACTIVITY	93.837	5 R01 HL045095-21		586,568
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-04		569,285
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-04		561,436
RAGE-DIRECTED IMAGING IN DIABETES-INDUCED ACCELERATED ATHEROSCLEROSIS	93.837	1 R01 HL089874-03		557,560
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-09 CO COA		523,703
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-04		516,105
THE UNFOLDED PROTEIN RESPONSE IN STEROL CYTOTOXICITY	93.837	5 R01 HL075662-08		504,638
NEW TECHNIQUES FOR MICROFABRICATED VASCULARIZED 3D TISSUES	93.837	5 R01 HL095477-02		501,228
NANOMECHANICS OF THE EXTRACELLULAR MATRIX	93.837	5R01 HL066030-12R1		479,231
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-03 SC3		479,159
MOLECULAR BASIS OF HEART FAILURE	93.837	5 R01 HL061503-13		476,724
GPIB ALPHA-VWF-A1 BOND KINETICS IN HEALTH AND DISEASE	93.837	5 R01 HL103989-02		462,425
NEW SYNTHETIC REACTIONS FOR ACTIVE PRINCIPLES	93.837	5 R01 HL025848-31		444,067
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-04		426,372
FATTY ACID REGULATION OF LIVER LIPOPROTEIN PRODUCTION	93.837	5 R01 HL073030-09		406,497
MACROPHAGE FOAM CELLS, CATHEPSINS AND CHOLESTEROL EFFLUX	93.837	5 R01 HL022682-33		405,183
A NOVEL ATHEROSCLEROSIS LOCUS ON MOUSE CHROMOSOME 4	93.837	5 R01 HL102206-02		399,940
NETWORK FOR CARDIOTHORACIC SURGICAL INVESTIGATIONS IN CARDIOVASCULAR MEDICINE	93.837	5 U01 HL088951-04		389,440
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-04 PJ PJ3		387,876
RGK GTPASES/CA2+ CHANNEL CROSS TALK	93.837	5 R01 HL084332-05		379,345
MOLECULAR PHARMACOLOGY OF AN INHERITED HEART DISEASE	93.837	5 R01 HL056810-14		378,850
POSTDOCTORAL TRAINING IN ARTERIOSCLEROSIS RESEARCH	93.837	5 T32 HL007343-33		374,929
AUTOPHAGY IN ADVANCED ATHEROSCLEROSIS	93.837	1 R01 HL106019-01		374,866
MOLECULAR APPROACHES TO GENE IDENTIFICATION IN CONGENITAL HEART DISEASE	93.837	5 U01 HL098163-02		374,851
MOLECULAR DETERMINANTS OF K+ CHANNEL REGULATION IN HEART	93.837	5 R01 HL044365-19		373,813
P66SHC SIGNALING FUNCTIONS IN CARDIOMYOCYTES	93.837	5 R01 HL093343-02		363,369
ENDOTHELIAL OXIDATIVE STRESS AND INFLAMMATION:MECHANISMS AND HUMAN STUDIES	93.837	5 R01 HL092144-02		349,369
PEDIATRIC HEART NETWORK: FOLLOW-UP OF THE SINGLE VENTRICLE RECONSTRUCTION TRIAL	93.837	5 U01 HL68290-10		347,108
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-09		344,089
ASSEMBLY AND SECRETION OF APOB CONTAINING LIPOPROTEINS	93.837	5 R01 HL055638-15		343,997
POSTDOCTORAL TRAINING IN CARDIOVASCULAR DISEASE	93.837	5 T32 HL007854-15		343,393
PHYSICAL ACTIVITY, DEPRESSION, AND POST-ACS	93.837	5 R01 HL098037-03		341,239
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS PROJECT	93.837	5 P01 HL054591-15 PJ2		337,135
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/	93.837	5 P01 HL088117-03 SC4		331,338
MOLECULAR DETERMINANTS OF L-TYPE CALCIUM CHANNEL GATING	93.837	5 R01 HL069911-10		327,423
NONINVASIVE QUALITATIVE AND QUANTITATIVE ASSESSMENT OF VASCULAR DISEASE IN VIVO	93.837	5 R01 HL098830-02		324,683

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
HIGH-RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HL080146-04		319,246
SINGLE MOLECULE STUDIES OF TITIN ELASTICITY	93.837	5 R01 HL061228-14		316,915
LIPOPROTEIN OXIDATION AND UTILIZATION DURING EXERCISE IN CHF	93.837	5 R01 HL086845-04		313,637
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS PROJECT	93.837	5 P01 HL054591-15	PJ3	305,647
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL CARDIOVASCULAR RESEARCH	93.837	5 T32 HL087745-04		298,806
CREATING GLUCOSE RESPONSIVE CARDIOVASCULAR	93.837	5 U01 HL087945-05		295,681
STRUCTURAL MECHANISM OF K CHANNEL MODULATION BY CELLULAR REDOX STATE	93.837	5 R01 HL086392-05		291,104
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18	SC SC2	288,538
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-04		280,735
CLINICAL VALIDATION OF CARDIAC STRAIN MEASURES WITH REAL-TIME 4D ULTRASOUND	93.837	5 R01 HL086578-04		279,716
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-03	SC1	276,824
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18		276,655
ION CHANNEL REGULATION BY MACROMOLECULAR COMPLEXES	93.837	5 R01 HL68093-08		274,881
NONINVASIVE CONDUCTION MAPPING USING ELECTROMECHANICAL WAVE IMAGING	93.837	5 R21 HL096094-02		271,906
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS PROJECT	93.837	5 P01 HL054591-15	PJ4	268,158
PROTEIN KINASE C-DELTA ACTIONS IN CARDIOMYOCYTES	93.837	5 R01 HL077860-07		261,792
CARDIOVASCULAR DISEASES: DEPRESSION AND TELOMERE LENGTH	93.837	5 R01 HL091099-03		249,274
ION CHANNEL FUNCTION IN ARRHYTHMOGENIC CARDIAC CELL	93.837	5 R01 HL066140-08		246,839
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/	93.837	5 P01 HL088117-03	SC2	235,084
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-09	PJ2	227,145
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-09	COB	218,805
MOLECULAR APPROACHES TO GENE IDENTIFICATION IN CONGENITAL HEART DISEASE	93.837	5 U01 HL098163-02	PCG	212,113
INTERACTION OF ATHEROGENIC LIPOPROTEINS WITH MACROPHAGES	93.837	5 R01 HL057560-13		211,750
ASSEMBLY OF MEMBRANES IN HEART AND YEAST MITOCHONDRIA	93.837	5 R01 HL022174-31		211,058
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18	SC3	207,725
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	CLB	187,852
IMPROVING MED ADHERENCE IN POST-ACS PATIENT: PHASE 1B DOSE-FINDING RCT	93.837	5 K24 HL084034-05		185,309
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-04	PJ2	174,795
ROLE OF SP-A GENE POLYMORPHISM IN LUNG TRANSPLANTATION	93.837	5 R21 HL092478-02		171,386
REGULATION OF CARDIAC MORPHOGENESIS BY NKX GENES IN THE ZEBRAFISH EMBRYO	93.837	5 K08 HL088002-04		148,942
DIAGNOSTIC LABELING: EFFECT ON WHITE COAT HYPERTENSION	93.837	5 K23 HL086734-04		148,925
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	R5 CL3	148,684
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-04		147,365
NOTCH3 SIGNALING IN THE PATHOGENESIS OF HEMANGIOMA	93.837	1 K08 HL102068-02		145,920
GENDER RACE AND ETHNIC DISPARITIES RESEARCH IN CARDIOVASCULAR DISEASE PREVENTION	93.837	5 2 K24 HL076346-07		142,380
RACIAL DISPARITIES IN OBESITY: ROLE OF CULTURE AND ENVIRONMENT	93.837	5 K01 HL084700-06		135,659
CARDIAC AND SKELETAL MUSCLE METABOLISM AND PROTEOLYSIS IN HEART FAILURE	93.837	5 K23HL095742-03		135,484

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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FORECASTING THE CARDIOVASCULAR DISEASE EPIDEMIC IN CHINA	93.837	5 K08 HL089675-04		129,381
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-10		124,382
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-03	SC5	123,818
CARDIOVASCULAR DISEASE: DEPRESSION AND TELOMERE LENGTH	93.837	5 R01 HL091099-03	SC1	117,825
EXPLAINING RACIAL AND ETHNIC DISPARITIES IN IDIOPATHIC PULMONARY FIBROSIS	93.837	1 K23 HL086714-04		113,279
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-10	COB	106,963
CLINICAL VALIDATION OF CARDIAC STRAIN MEASURES WITH REAL-TIME 4D ULTRASOUND	93.837	5 R01 HL086578-04	MED	106,547
POSTDOCTORAL TRAINING IN CARDIOVASCULAR DISEASE	93.837	5 T32 HL007854-15		102,761
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18	SC5	98,861
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-05		98,129
MOLECULAR APPROACHES TO GENE IDENTIFICATION IN CONGENITAL HEART DISEASE	93.837	1 U01 HL098163-01		91,496
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-03		89,772
CREATING GLUCOSE RESPONSIVE CARDIOVASCULAR	93.837	5 U01 HL087945-04		85,301
EFFEROCYTOSIS IN CVD & INFLAMMATION	93.837	5 K99 HL097021-02		84,227
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	3 P01 HL088117-03SI	SUP	83,217
ETHNICITY, STRESS, AND LV MASS	93.837	5 K23 HL079343-05		75,722
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18	SC4	71,051
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	R5 CLD	70,580
ENGINEERING VASCULARIZED CARDIAC MUSCLE	93.837	5 R01 HL076485-06R		70,310
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	R5 CLC	69,264
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-10	PJ2	68,784
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL CARDIOVASCULAR RESEARCH	93.837	5 T32 HL087745-05		62,295
USE OF WAVEFORM AND FREQUENCY ANALYSES TO DIAGNOSE ATRIAL TACHYCARDIAS AFTER ATRI	93.837	1 K23 HL105893-01		60,149
CONTROLLED GENE DELIVERY FOR IN VIVO VASCULARIZATION OF AN ENGINEERED CARDIAC PAT	93.837	5 R21 HL089913-02		52,027
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-05	PJ3	50,247
CA2+ WAVES AND ARRHYTHMIAS	93.837	5 R01 HL58860-09		49,660
ENGINEERING VASCULARIZED CARDIAC MUSCLE	93.837	5 R01 HL076485-06R	SC2	49,242
PEDIATRIC HEART NETWORK: FOLLOW-UP OF THE SINGLE VENTRICLE RECONSTRUCTION TRIAL	93.837	5 U01 HL68290-09		49,108
ASSEMBLY OF MEMBRANES IN HEART & YEAST MITOCHONDRIA	93.837	2 R56 HL022174-30		46,660
REGULATION OF VASCULAR SMOOTH MUSCLE CELL PROLIFERATION	93.837	5 F32 HL088815-03		45,960
THE CONNECTION BETWEEN NOTCH SIGNALING AND VEGFR1 IN ANGIOGENESIS	93.837	5 F31 HL090032-04		45,535
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS PROJECT	93.837	5 P01 HL054591-13		43,342
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-03		42,168
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	PJ3	38,972
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18	SC6	38,607
WNT FUNCTION IN ANGIOGENESIS AND VASCULAR BIOLOGY	93.837	5 R01 HL076411-05		37,507
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	3 P01 HL067849-09S1	S1	37,054

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MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-10 COA		36,800
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	2 P01 HL047540-16A1		35,795
ROLE OF HEPATIC FOXO1 IN ATHEROSCLEROSIS	93.837	1 F32 HL103103-01		34,470
HIGH-RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HL080146-04 SC1		31,113
MOLECULAR AND CELLULAR PATHOGENESIS OF EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.837	1 F32 HL094037-01A2		30,257
MICROFLUIDIC BLOOD PURIFICATION	93.837	5 R21 HL088162-02 RE		26,728
MOLECULAR APPROACHES TO GENE IDENTIFICATION IN CONGENITAL HEART DISEASE	93.837	1 U01 HL098163-01 PCG		26,175
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-03		25,450
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10 COC		25,074
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-05 PJ2		24,959
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-05 SC1		23,633
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-03 PJ1		20,294
MOLECULAR AND CELLULAR PATHOGENESIS OF EMERY-DREIFUSS MUSCULA	93.837	5 F32 HL094037-02		20,219
POSTDOCTORAL TRAINING IN CARDIOVASCULAR DISEASE	93.837	5 T32 HL007854-14		17,217
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	3 P01 HL067849-10S1		15,189
APPLIED PREVENTIVE CARDIOLOGY RESEARCH	93.837	5 K24 HL076346-05		14,617
ABCA/ABCG1 IN MYELOID POPULATIONS AND ATHEROGENESIS	93.837	1 R01 HL107653-01		14,508
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-02		13,903
PROTEIN KINASE C-DELTA ACTIONS IN CARDIOMYOCYTES	93.837	5 R01 HL077860-05		12,684
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-02 SC3		12,448
MECHANISMS OF VENTRICULAR TACHYCARDIA IN LIPOTOXIC CARDIOMYOPATHY	93.837	1 K08 HL105801-01		12,323
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE (PPG2)	93.837	2 P01 HL047540-16A1 SC1		11,992
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10 PJ2		9,934
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10 COA		9,715
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-02 SC2		9,172
AGING AND ATRIAL FIBRILLATION: THE ROLE OF ATRIAL MYOCYTE INTRACELLULAR CA2+ DYNAMICS	93.837	1 F32 HL107029-01		7,104
NURSES' HEALTH STUDY: SHORT SLEEP DURATION AND RISK OF HYPERTENSION	93.837	1 R21 HL091443-01A2		6,956
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-03		6,663
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	3 P01 HL088117-03S2		4,047
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-03		3,775
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-03 PJ3		3,615
PHYSICAL ACTIVITY, DEPRESSION, AND POST-ACS	93.837	3 R01 HL098037-01S1 SC1		3,186
POSTDOCTORAL TRAINING IN CARDIOVASCULAR DISEASE	93.837	5 T32 HL007854-14 PJ1		2,794
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10 COB		1,597
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	5 P01 HL088117-02 SC1		1,567
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLERISUS	93.837	5 P01 HL054591-14 PJ3		1,371
POSTDOCTORAL TRAINING IN ARTERIOSCLEROSIS RESEARCH	93.837	5 T32 HL007343-32		1,018

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ENACTING THE BEHAVIORAL AND SOCIAL SCIENCES IN THE CLINICAL SETTING: INSTITUTION	93.837	1 R25 HL108014-01		712
MESA FAMILY STUDY - COLUMBIA UNIVERSITY FIELD CENTER	93.837	5 R01 HL071252-05		708
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	3 P01 HL067849-09S1		705
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15 COD		632
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE (CORE A)	93.837	2 P01 HL047540-16A1 SC3		561
THE CONNECTION BETWEEN NOTCH SIGNALING AND VEGFR1 IN ANGIOGENESIS	93.837	5 F31 HL090032-03		506
PSYCHOSOCIAL AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-18 SC2		116
NETWORK FOR CARDIOTHORACIC SURGICAL INVESTIGATIONS IN CARDIOVASCULAR MEDICINE	93.837	5 U01 HL088951-03		46
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04R COC		31
TRANSLATIONAL STUDY OF HOSITLITY, ATHEROTHROMBOSIS AND CORONARY ARTERY DISEASE	93.837	5 K23 HL072866-06		-1
CREATING GLUCOSE RESPONSIVE CARDOIVASCULAR COMPLICATIONS	93.837	5 U01 HL087945-03		-10
METABOLISM OF INTRAVENOUS LIPID EMULSIONS	93.837	5 R01 HL040404-19		-3,893
MECHANISMS OF FATTY ACID UPTAKE BY CARDIAC MUSCLE	93.837	5 R01 HL073029-05		-4,555
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-03 COA		-4,751
REGULATION OF APOB SECRETION IN INBRED MOUSE STRAINS	93.837	5 R01 HL062583-08		-4,866
IMMUNOPATHOGENIC FEATURES IN CALCIFIC AORTIC STENOSIS	93.837	5 R01 HL084599-04		-5,984
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-03 PJ2		-6,112
P13KDELTA MODULATION OF NEUTROPHIL TRAFFICKING	93.837	5 R01 HL075805-04		-11,101
EXTRACELLULAR REGULATION OF LIPOPROTEIN LIPASE ACTIVITY	93.837	5 R37 HL045095-19		-20,696
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04R1 PJ1		-31,188
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-03		-34,498
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-03		-35,119
EARLY GROWTH REPSONSE-1, PKC BETA, SIGNALING AND ATHEROSCLEROSIS	93.837	5 R01 HL73325-05		-42,050
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS - PJ3	93.837	5 P01 HL054591-13 PJ3		-88,302
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04R PJ3		-90,131
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10 PJ1		-91,702
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04 COB		-108,149
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLERISUS	93.837	5 P01 HL054591-14 PJ2		-117,450
ABCA7:CELLULAR FUNCTIONS AND ROLE IN ARTEROSCLEROSIS	93.837	5 R01 HL084555-04		-120,691
				33,170,011

Lung Diseases Research

PULMONARY VASCULAR CHANGES IN EARLY CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)	93.838	5 R01 HL093081-03		1,031,303
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES ACCORD	93.838	5 NOC -HC-95184-11		808,177
MICROPUNCTURE STUDIES OF LUNG WATER AND SOLUTE EXCHANGE	93.838	5 R01 HL036024-27		504,656
STAPHYLOCOCCUS AUREUS ACTIVATION OF TNF SIGNALING PATHWAYS	93.838	5 R01 HL079395-06		503,822
MICROSCOPIC IMAGING IN ALVEOLAR FUNCTION	93.838	5 R01 HL64896-12		480,661
OPTICAL IMAGING OF MESENCHYMAL STEM CELL INTERACTIONS WITH LUNG MOCROVESSELS	93.838	2 R01 HL057556-15A1		448,110

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CALCIUM DEPENDENT SIGNALING IN AIRWAY EPITHELIAL CELLS	93.838	5 R01 HL073989-07		385,502
THE EFFECTS OF PP2A ON TNF SIGNALING AND SMOKE-INDUCED LUNG INJURY	93.838	5 R01 HL098528-02		378,883
SMOKE INDUCED AIRWAY INJURY IN COPD	93.838	5 R01 HL086936-04		329,468
ALVEOLO-CAPILLARY SIGNALING IN LUNG IMMUNOLOGY	93.838	5 R01 HL069514-10		190,412
LIQUID SECRETION IN THE ALVEOLAR WALL	93.838	2 R01 HL078645-06		172,316
MITOCHONDRIAL DYSFUNCTION IN THE DEVELOPMENT OF BRONCHOPULMONARY DYSPLASIA.	93.838	5 K08 HL096953-02		107,723
CALCIUM REGULATION IN LUNG MICROVASCULAR ENDOTHELIUM	93.838	5 R01 HL057556-14		94,131
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES ACCORD	93.838	5 NOC-HC-95184-11	GOL	63,746
FISH OIL INTAKE, BIOMARKERS AND CHANGE IN LUNG FUNCTION	93.838	5 R01 HL075476-05		54,591
MENTORING IN TUBERCULOSIS PATIENT-ORIENTED RESEARCH	93.838	5 K24 HL004074-10		48,750
RANDOMIZED TRIAL OF ANTENATAL LATE PRETERM STEROIDS (ALPS) - CCC	93.838	1 U01 HL098554-01		26,283
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES ACCORD	93.838	5 NOC-HC-95184-11	GET	22,106
PHARGOYTOSIS IN PULMONARY ALVEOLAR MACROPHAGES	93.838	5 R01 HL054164-15		13,147
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES ACCORD	93.838	5 NOC-HC-95184-11	DON	10,576
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES ACCORD	93.838	5 NOC -HC-95184-11	MIN	9,661
SUBCLINICAL INTERSTITIAL LUNG DISEASE IN MESA	93.838	1 R01 HL103676-01A1		6,948
ENDOTHELIAL DYSFUNCTION, BIOMARKERS AND LUNG FUNCTION	93.838	5 R01 HL077612-04		6,130
METHIONINE AMINOPEPTIDASE 2 IN PULMONARY FIBROSIS	93.838	5 K08 HL083085-03 R		3,067
ASTHMA CLINICAL RESEARCH NETWORK	93.838	5 U10 HL056443-08	SLI	300
CALCIUM DEPENDENT SIGNALING PATHWAYS IN EPITHELIAL CELLS	93.838	5 R01 HL073989-04		-3
ASTHMA CLINICAL RESEARCH NETWORK	93.838	5 U10 HL056443-08	SMO	-84
ASTHMA CLINICAL RESEARCH NETWORK	93.838	5 U10 HL056443-08		-300
CALCIUM REGULATON IN LUNG MICROVASCULAR ENDOTHELIUM	93.838	5 R01 HL057556-14		-642
OPTICAL IMAGING OF LUNG CAPILLARIES IN VIVO	93.838	7 R01 HL078645-05		-3,643
STAPHYLOCOCCUS AUREUS ACTIVATION OF TNF SIGNALING PATHWAYS	93.838	5 R01 HL079395-04		-16,141
				5,679,656
Blood Diseases and Resources Research				
HARMFUL EFFECTS OF TRANSFUSION OF OLDER STORED RED CELLS: IRON AND INFLAMMATION	93.839	5 R01 HL098014-03		450,455
ZFX A NOVEL TRANSCRIPTIONAL REGULATOR OF HEMATOPOIESIS	93.839	5 R01 HL084353-05		311,161
MECHANISMS UNDERLYING THE HARMFUL EFFECTS OF STORED RED BLOOD CELL TRANSFUSIONS	93.839	5 K08 HL103756-02		167,565
THE REGULATION OF LEUKEMIA-ENGRAFTING CELLS BY THE HEMATOPOEITIC STEM CELL NICHE	93.839	5 K08 HL085872-05		160,782
MIXED CHIMERISM APPROACH TO TRANSPLANTATION	93.839	7 R01 HL049915-18		153,154
SHORT-TERM TRAINING: STUDENTS IN HEALTH PROFESSIONAL SCHOOLS	93.839	2 T35 HL007616-31A1		109,838
ZFX, A NOVEL TRANSCRIPTIONAL REGULATOR OF HEMATOPOIESIS	93.839	2 R01 HL84353-06		54,135
SHORT-TERM TRAINING GRANT	93.839	5 T35 HL007616-30		44,124
				1,451,214
Arthritis, Musculoskeletal and Skin Diseases Research				

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
OSTEOCALCIN AS A REGULAR OF ENERGY METABOLISM	93.846	5 R01 AR045548-12		643,754
GENOME WIDE ASSOCIATION STUDIES IN ALOPECIA AREATA	93.846	5 R01 AR056016-03		447,191
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	5 R01AR046568-10		439,117
INTRACELLULAR CALCIUM LEAK AND MUSCLE FUNCTION	93.846	5 R01 AR060337-02		414,779
FUNCTIONAL ANALYSIS OF THE HAIRLESS PROTEIN	93.846	5 R01 AR047338-09		387,583
ERK SIGNALING IN INFLAMMATORY BONE LOSS	93.846	5 R01 AR056246-03		376,139
MECHANISMS OF MECHANOSENSORY TRANSDUCTION IN MERKEL CELLS	93.846	5 R01 AR051219-08		346,475
PATHOGENESIS OF EMERGY-DREIFUSS MUSCULAR DYSTROPHY	93.846	5 R01 AR048997-07		332,459
HORMONAL CONTROL OF PERIOSTEAL EXPANSION	93.846	5 R01 AR054447-04		308,047
MICRO-MECHANICAL MODELING OF TRABECULAR BONE	93.846	5 R01 AR051376-05		300,668
INTERFACE TISSUE ENGINEERING FOR SOFT TISSUE-TO-BONE INTEGRATION	93.846	5 R01 AR055280-04		286,949
BIOTRIBOLOGY OF DIARTHRODIAL JOINTS	93.846	5 R01 AR043628-15		236,027
CLINICAL BONE MECHANICS USING HR-PQCT AND MRI	93.846	5 R01 AR058004-02R1		209,025
CLINICAL BONE MECHANICS USING HR-PQCT AND MRI	93.846	5 R01 AR058004-02 SHA		206,983
SIRTUIN/FOXO SIGNALING IN THE REGULATION OF BONE MASS	93.846	5 R01 AR055931-04		190,044
IDIOPATHIC OSTEOPOROSIS IN PREMENOPAUSAL WOMEN	93.846	5 R01 AR049896-05		167,132
IDIOPATHIC OSTEOPOROSIS IN PREMENOPAUSAL WOMEN	93.846	5 K24 AR052665-07		162,304
MECHANOBIOLOGY OF 3D TRABECULAR BONE EXPLANTS	93.846	5 R01 AR052461-02		147,178
ASPECTS OF BONE QUALITY AMONG CHINESE AMERICAN WOMEN	93.846	5 K23 AR053507-05		145,250
BIPHASIC NANOFIBER-BASED SCAFFOLD FOR TENDON-TO-BONE INTEGRATION	93.846	5 R21 AR056459-02		142,841
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 RE COB		139,855
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CEN	93.846	5 P30 AR044535-09 RE		139,392
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 RE COA		136,188
INFLAMMATION AND CARDIOVASCULAR DISEASE IN RA	93.846	2 R01 AR050026-06A2		134,112
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 RE COC		125,217
BONE QUALITY IN PREMENOPAUSAL WOMEN WITH IDIOPATHIC FRAGILITY FRACTURES	93.846	5 K23 AR054127-05		113,958
FUNCTIONAL ANALYSIS OF THE HAIRLESS PROTEIN	93.846	5 R01 AR047338-09 SUP		112,501
MECHANOTRANSUCTION IN BONE VIA OSCILLATING FLUID	93.846	7 R01 AR045989-10 RE		111,689
BONE AND HORMONAL HEALTH IN PREMENOPAUSAL WOMEN WITH EPILEPSY	93.846	5 K23 AR053113-05		108,034
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	5 R01AR046568-10 SUP		100,810
ROLE OF BETA 1 CONTAINING INTEGRINS IN CUTANEOUS BASEMENT MEMBRANE ORGANIZATION	93.846	5 R03 AR054022-03		90,916
PATHOGENESIS OF EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.846	5 R01 AR048997-08		85,629
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPOROSIS TRIALS	93.846	5U01AR055068-03		76,662
GENETIC ANALYSIS OF ALOPECIA AREATA	93.846	5 R01 ARO52579-04		76,323
OPTIMIZING NUTRIENT SUPPLY IN LARGE ENGINEERED CARTILAGE TISSUE CONSTRUCTS	93.846	1 R01 AR060361-01		70,160
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	3 R01AR046568-10S1		65,883
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	5 R01AR046568-10 ATE		61,056

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OPTIMIZING NUTRIENT SUPPLY IN LARGE ENGINEERED CARTILAGE TISSUE CONSTRUCTS	93.846	1 R01 AR060361-01		60,893
TARGETS OF A CYTIDINE DEAMINASE REQUIRED FOR LEFT-RIGHT AXIS IN XENOPUS	93.846	7 R03 HD057334-03		60,873
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	3 R01AR046568-10S1 10S		58,336
ERK SIGNALING IN INFLAMMATORY BONE LOSS	93.846	5 R01 AR056246-03		51,737
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGHT IN OSEOPOROSIS TRIALS	93.846	3 U01 AR055068-03S1		41,708
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 PF1		40,156
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-08 COA		38,293
PSEUDO-3D CYTOSKELETON DYNAMICS AND SIGNAL ACTIVATION IN OSTEOCYTES UNDER FLOW	93.846	5R21 AR059917-02		36,688
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 PF5		30,861
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-09 PF2		30,063
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 PF3		28,065
IDIOPATHIC OSTEOPOROSIS IN PRE-MENOPAUSAL WOMEN	93.846	5 K24 AR052665-05		24,897
DETERMINANTS OF BODY COMPOSITION IN RHEUMATOID ARTHRITIS	93.846	7 K23 AR054112-06		22,309
TRANSCRIPTIONAL REGULATION IN THE HAIRLESS PATHWAY	93.846	5 K01 AR049819-05		21,633
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPROSIS TRIALS	93.846	3 U01 AR055068-03S1		20,834
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 PF4		16,101
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-09 PF6		13,292
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-08 PF5		13,160
CHONDROCYTE MECHANOTRANSDUCTION USING MICROFLUIDICS	93.846	5 R01 AR052871-04		5,025
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-08 COB		1,946
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-08		1,569
OPTICAL TOMOGRAPHY FOR THE DIAGNOSIS OF JOINT DISEASES.	93.846	5 R01 AR046255-07		-9
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPOROSIS TRIALS	93.846	5 U01 AR055068-02		-234
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-07R1 COB		-916
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPROSIS TRIALS	93.846	5 U01 AR055068-02 GU GUO		-1,678
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-08 PF4		-12,532
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-08 COC		-30,603
				8,210,797

Diabetes, Digestive, and Kidney Diseases Extramural Research

BONE PROPERTIES IN HYPOPARATHYROIDISM: EFFECT OF PTH	93.847	5 R01 DK069350-07		682,410
PRIMARY HYPERPARATHYROIDISM	93.847	5 R01 DK032333-26		625,615
MOLECULAR GENETIC ANALYSIS OF HUMAN OBESITY	93.847	5 R01 DK052431-18		605,731
EFFECTS OF AGE ON THE COGNITIVE ERPD/CARDIAC WAVE EFFECT	93.847	5 R01 AG005213-22		540,294
IRON LIPCALIN IN KIDNEY DISEASE	93.847	5 R01 DK073462-05		530,412
VITAMIN D DEFICIENCY IN PRIMARY HYPERPARATHYROIDISM	93.847	1 R01 DK084986-02		527,965
TYPE 1 DIABETES TRIALNET: CLINICAL CENTER AT BERRIE CENTER, COLUMBIA UNIVERSITY	93.847	5 U01 DK085504-02		507,179
MOUSE MODELS OF INSULIN RESISTANCE	93.847	2 R01 DK058282-11		479,103

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LRP5-DEPENDENT REGULATION OF BONE MASS ACCRUAL BY GUT-DERIVED SEROTONIN	93.847	5 R01 DK067936-07		476,575
BARIATRIC SURGERY: OUTCOMES & IMPACT ON PATHOPHYSIOLOGY	93.847	5 U01 DK066667-08		464,659
MOLECULAR EVENTS IN URINARY TRACT FORMATION	93.847	5 R01 DK061459-09		454,548
LEPTIN IN HUMAN ENERGY AND NEUROENDOCINE HOMEOSTASIS	93.847	5 R01 DK064773-08		448,519
CLINICAL RESEARCH ON NONALCOHOLIC FATTY LIVER DISEASE	93.847	7 U01 DK061734-09		438,693
GENETICS OF RENAL HYPODYSPLASIA	93.847	5 R01 DK080099-04		433,248
STRUCTURE AND FUNCTION OF UREA TRANSPORTERS	93.847	5 R01 DK088057-02		425,993
IDENTIFYING THE EARLIES EVENTS IN HIV-1 ASSOCIATED NEPHROPATHY VIA GENOME-WIDE	93.847	5 R01 DK087626-02		421,557
GENETIC ANALYSIS OF PEA3 TRANSCRIPTION FACTORS AND KIDNEY DEVELOPMENT	93.847	5 R01 DK075578-04		419,282
THE CENTRAL MELANOCORTIN SYSTEM AND REGULATION OF ENERGY BALANCE	93.847	5 R01 DK080003-04 R		417,056
ROLE OF FORKHEAD PROTEINS IN INSULIN ACTION	93.847	2 R01 DK057539-11		411,615
REGULATION OF PANCREATIC ISLET CELL FATE	93.847	5 R01 DK082590-03		408,217
GENETIC CONTROL OF URETER AND KIDNEY DEVELOPMENT	93.847	5 R01 DK082715-03		398,736
PATHOGENIC ROLE OF ISLET CELL ABS IN AUTOIMMUNE DIABETES	93.847	5 R01 DK070999-05		393,709
FUNCTION AND REGULATION OF PROGASTRIN RECEPTORS ON INTESTINAL PROGENITORS	93.847	5 R37 DK052778-13		393,051
THE FUNCTION AND REGULATION OF TREFOIL FACTOR FAMILY 2 (TFF2)	93.847	5 R01 DK060758-10		390,286
MECHANISMS OF BETA CELL FAILURE	93.847	5 R01 DK064819-09		364,651
BRANCHING MORPHOGENESIS OF URINARY EPITHELIA: FROM GENES TO CELLULAR BEHAVIORS	93.847	5 R01 DK083289-02		361,383
CLONING OF A TYPE 2 DIABETES MODIFIER IN OBESE MICE	93.847	5 R01 DK066518-08		361,000
REGULATION OF ENERGY METABOLISM BY AN OSTEOBLAST-SPECIFIC GENE	93.847	5 R01 DK078042-04		354,147
TOLL-LIKE RECEPTOR SIGNALING IN HEPATIC FIBROGENESIS	93.847	5 R01 DK076920-03		352,455
LEPTIN AS A REGULAR OF BONE MASS	93.847	5 R01 DK058883-10		335,446
REGULATION OF EXOCRINE PANCREAS FORMATION	93.847	5 R01 DK087711-02		328,609
HORMONES: BIOCHEMISTRY AND MOLECULAR BIOLOGY	93.847	2 T32 DK007328-31		327,384
ADIPOSE TISSUE MACROPHAGE PHENOTYPE AND FUNCTION	93.847	5 R01 DK066525-08		322,102
VITAMIN STORAGE AND METABOLISM	93.847	5 R01 DK079221-04		303,759
THE ENOCANNABINOID SYSTEM IN HEPATIC INJURY AND FIBROSIS	93.847	5 R01 DK075830-04		292,193
NEW APPROACHES TO THE EVALUATION AND TREATMENT OF ACROMEGALY	93.847	5 R01 DK064720-08		288,115
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09 CO		286,960
THE DROSOPHILA MIDGUT: A MODEL OF HUMAN INTESTINAL STEM CELLS AND THEIR PROGENY	93.847	5 R01 DK082456-03		281,938
MOLECULAR REGULATION OF ADRENAL CORTEX HOMEOSTASIS AND REMODELING	93.847	5 R01 DK081515-03		279,493
BARIATRIC SURGERY FOR MORBID OBESITY: CLINICAL AND PATHOPHYSIOLOGIC CONSEQUENCES	93.847	5 R01 DK072526-05		271,888
BARIATRIC SURGERY: OUTCOMES & IMPACT ON PATHOPHYSIOLOGY	93.847	2 U01 DK066667-07		270,831
GRADUATE TRAINING IN NUTRITION	93.847	2 T32 DK007647-21		260,462
HUMAN ISLET ANTGEN DISCOVERY AND IMAGING	93.847	5 R01 DK063567-08		245,093
NEIGHBORHOOD ENVIRONMENTS AND DISPARITIES IN OBESITY RATES IN NEW YORK CITY	93.847	5 R01 DK079885-02		242,580
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	5 T32 DK007271-32		237,133

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PET IMAGING OF HUMAN BETA CELL MASS	93.847	5 R01 DK077493-03		230,570
STRUCTURAL BIOLOGY OF ENZYMES IN FATTY ACID METABOLISM	93.847	5 R01DK067238-07		228,963
INTERACTIONS BETWEEN NEURONAL NETWORKS THAT REGULATE FOOD INTAKE AND BODY WEIGHT	93.847	1 R56 DK089038-01		227,771
CHARACTERIZATION OF A NOVEL NICHE INVOLVED IN INTESTINAL ORGANOGENESIS	93.847	1 R56 DK090078-01		226,526
POSTPRANDIAL VITAMIN A	93.847	2 R01 DK068437-06A2		196,997
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 ADM		196,229
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09 CO		195,510
BONE QUALITY AND MECHANICAL COMPETENCE IN CHRONIC KIDNEY DISEASE	93.847	5 K 23 DK080139-04		189,615
BARIATIC SURGERY, GASTRIC STIMULATION--METABOLIC EFFECTS	93.847	5 R01 DK072011-05		188,711
TRAINING GRANT IN PEDIATRIC ENDOCRINOLOGY, DIABETES AND METABOLISM	93.847	2 T32 DK065522-06		186,283
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 COD		185,660
ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHORT STUDY	93.847	5 U01 DK062483-09		181,445
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 COA		179,407
GENETIC CONTROL OF URETER AND KIDNEY DEVELOPMENT	93.847	3 R01 DK082715-02S2 SCI		170,650
RENAL PROTECTION WITH A1 ADENOSINE RECEPTORS	93.847	5 R01 DK058547-10		165,020
NEW APPROACHES TO THE EVALUATION AND TREATMENT	93.847	5 K24 DK073040-07		155,257
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 COC		153,714
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09 CO		148,340
NON-CLASSICAL MANIFESTATIONS OF PRIMARY HYPERPARATHYROIDISM	93.847	5 K24 DK074457-05		141,284
IDENTIFICATION AND FUNCTIONAL ANALYSIS OF RENAL STEM CELLS	93.847	5 K08 DK078014-04		135,819
CHRONIC KIDNEY DISEASE AND PTH: EFFECTS ON THE POSMENOPAUSAL SKELETON	93.847	5 K23 DK084337-02		134,622
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL GASTROINTESTINAL AND LIVER RESEARCH	93.847	5 T32 DK083256-02		128,214
METABOLIC PATTERNS IN 1H NMR SPECTRA OF BIOFLUIDS	93.847	5 R33 DK070301-03		117,234
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 PJ4		111,816
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09 CO		110,047
PRIMARY HYPERPARATHYROIDISM - NON-CLASSICAL MANIFESTATIONS	93.847	5 R01 DK066329-05 R		107,344
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08		102,124
DIABETES AND ENDOCRINOLOGY CENTER	93.847	5 P30 DK063608-08 CO COB		92,916
TYPE 1 DIABETES TRIALNET: CLINICAL CENTER AT BERRIE CENTER, COLUMBIA UNIVERSITY	93.847	5 U01 DK085504-03		91,501
ROLE OF FORKHEAD PROTEINS IN INSULIN ACTION	93.847	5 R01 DK057539-10		82,322
NEW APPROACHES TO THE EVALUATION AND TREATMENT	93.847	5 R01 DK064720-08		80,587
CYTOKINES CONVERT EPITHELIAL PRECURSORS TO NEPHRONS	93.847	5 R01 DK058772-10		79,303
NEW APPROACHES TO EVALUATION AND TREATMENT OF ACROMEGALY	93.847	5 K24 DK073040-05		71,793
PROGENITOR CELLS OF THE MOUSE PROSTATE EPITHELIUM	93.847	5 R01 DK076602-06		70,988
REGULATION OF MUCOSAL TH17 CELL RESPONSE BY INTESTINAL BACTERIA	93.847	4 R00DK085329-02		68,664
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 PL PJ1		67,620
QUANTITATIVE GENETICS OF DEFECTIVE IGA1 GLYCOSYLATION IN 1	93.847	1 K23 DK090207-01		64,101

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TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	3 T32 DK007271-32S1 S1		63,579
DEFINING THE ROLE OF NKX2.2 NEUROD IN REGULATING ISLET CELL FATE	93.847	5 U01 DK072504-05		61,301
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 PJ3		59,445
NOTCH1-FOXO1 INTERACTION IN REGULATION OF HEPATIC GLUCONEOGENESIS	93.847	5 F32 DK084583-02		55,790
NEIGHBORHOOD ENVIRONMENTS AND DISPARITIES IN OBESITY RATES IN NEW YORK CITY	93.847	5 R01 DK079885-02 SC1		52,519
ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHORT STUDY	93.847	2 U01 DK062483-08		45,195
GRADUATE TRAINING IN NUTRITION	93.847	3 T32 DK007647-21S1		43,410
THE FUNCTION AND REGULATION OF HISTIDINE DECARBOXYLASE IN GUT INFLAMMATION	93.847	2 R01 DK048077-16		42,939
EFFECTS OF MATERNAL INSULIN RESISTANCE ON HYPOTHALAMIC FEEDING CIRCUIT IN PROGENY	93.847	5 F31 DK079372-04		41,380
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09		40,443
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-08 PT PJ2		39,790
HEPATIC MYELOID CELLS REGULATED BY OBESITY	93.847	5 F30 DK084680-02		37,571
METABOLIC AND ENDOCRINE EFFECTS OF BARIATRICS SURGERY	93.847	2 R01 DK072011-06A1	2 R01 DL072011-06A1	34,021
TRAINING GRANT IN PEDIATRIC ENDOCRINOLOGY, DIABETES AND METABOLISM	93.847	3 T DK065522-06 SUP		28,483
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09 CO		28,214
BONE PROPERTIES IN HYPOPARATHYROIDISM--EFFECTS OF PARATHYROID HORMONE	93.847	5 R01 DK069350-05		25,018
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-09		16,839
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	3 T32 DK007271-30S1		15,963
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM (*SUBPROJECT*)	93.847	3 T32 DK007271-31S2		10,116
SOLUTION PROTEIN MARKERS OF TYPE 1 DIABETES PROGRESSION	93.847	5 R21 DK070192-02		9,047
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	3 T32 DK007271-32S2		8,458
THE CONTRIBUTION OF ACITVATED HEPATIC STELLATE CELLS TO HEPATOCARCINOGENESIS	93.847	1 F31 DK091980-01		7,130
LINKAGE AND SEGREGATION IN COMPLEX GENETIC DISEASES	93.847	5 R01 DK031813-21		6,721
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 CO COA		4,326
DEFINING THE ROLE OF NKX2.2 AND NEUROD IN REGULATING I*	93.847	3 U01 DK072504-05 SC1		4,158
HORMONES: BIOCHEMISTRY AND MOLECULAR BIOLOG	93.847	5 T32 DK007328-32		4,077
METABOLIC PATTERNS IN 1H NMR SPECTRA OF BIOFLUIDS	93.847	5 R33 DK070301-03		3,951
TRAINING GRANT IN PEDIATRIC ENDOCRINOLOGY	93.847	5 T32 DK065522-05		3,423
EFFECTS OF MATERNAL INSULIN RESISTANCE ON HYPOTHALAMIC FEEDING CIRCUIT IN PROGENY	93.847	5 F31 DK079372-03		3,092
MOUSE MODELS OF INSULIN RESISTANCE	93.847	5 R01DK058282-10		2,524
METABOLIC PATTERNS IN 1H NMR SPECTRA OF BIOFLUIDS	93.847	5 R33 DK070301-03 SUP		2,439
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	3 T32 DK007271-31S1		2,046
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL GASTROINTESTINAL AND LIVER RESEARCH	93.847	1 T 32 DK083256-01		1,427
GRADUATE TRAINING IN NUTRITION	93.847	5 T32 DK007647-20		1,312
GRADUATE TRAINING IN NUTRITION	93.847	3 T32 DK007647-20S1		1,080
HORMONES: BIOCHEMISTRY AND MOLECULAR BIOLOGY	93.847	5 T32 DK07328-30		175
NOTCH1-FOXO1 INTERACTION IN REGULATION OF HEPATIC GLUCONEOGENESIS	93.847	1 F32 DK084583-01		-2,074

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TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	2 T32 DK007271-31		-3,811
TYPE 1 DIABETES TRIALNET: CLINICAL CENTER AT BERRIE CENTER, COLUMBIA UNIVERSITY	93.847	1 U01 DK085504-01		-5,378
MOLECULAR AND GENETIC DISSECTION OF SEROTONIN REGULATION OF BONE MASS	93.847	5 K99 DK085328-02		-8,497
POSTPRANDIAL VITAMIN A	93.847	2 R56 DK068437-06		-16,169
PATHOGENIC ROLE OF ISLET CELL ABS IN AUTOIMMUNE DIABETES	93.847	5 R01DK70999-4 SUP		-22,698
				23,675,817
Nat. Inst. of Diabetes & Digestive & Kidney Diseases				
EFFECTS OF LEPTIN ON BODY WEIGHT AND NEUROENDOCRINE AXES AFTER GASTRIC BYPASS	93.848	5 R21 DK81050-2		74,843
FACILITATED UPTAKE OF LONG CHAIN FATTY ACIDS IN OBESITY	93.848	5 R01 DK052401-10		16,975
EXTRAHEPATIC RETINOID PHYSIOLOGY	93.848	5 R01 DK067512-05		-2,663
BARIATIC SURGERY--OUTCOMES AND IMPACT ON PATHOPHYSIOLOGY	93.848	5 UO1 DK066667-04		-156,496
				-67,341
Extramural Research Programs in the Neurosciences and Neurological Disorders				
WARFARIN VS. ASPIRIN IN REDUCED EJECTION FRACTION (WARCEF)	93.853	5 U01 NS043975-11		2,352,261
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION - STAT	93.853	5 U01 NS039143-09		1,602,145
WARFARIN VS. ASPIRIN IN REDUCED EJECTION FRACTION (WARCEF)	93.853	5 U01 NS043975-10		1,055,400
GENE ENVIRONMENT INTERACTIONS IN AN AUTISM BIRTH COHORT	93.853	5 U01 NS047537-05 SC2		849,819
PROTOCOLADHERIN GENE EXPRESSION AND FUNCTION	93.853	5 R01 NS043915-32		810,213
GENE EXPRESSION REGULATORY CIRCUITRY AND MICORNAS IN MIDBRAIN DOPAMINE NEURONS	93.853	5 R01 NS064433-03		720,822
PATHOGENESIS OF ESSENTIAL TREMOR: CEREBELLAR METABOLISM	93.853	5 R01 NS042859-08		716,260
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION - STAT	93.853	4 U01 NS039143-08		616,788
ENVIRONMENTAL EPIDEMIOLOGY OF ESSENTIAL TREMOR	93.853	5 R01 NS039422-11		596,438
MOLECULAR ENGINEERING APPROACH TO STUDY LONG TERM SYNAPTIC PLASTICITY	93.853	5 R01 NS060762-04		595,614
A MULTICENTER STUDY OF IDIOPATHIC GENERALIZED EPILEPSY	93.853	5 R01 NS027941-21		594,979
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 COA		525,264
AUTOPHAGY AND PROTEIN DEGRADATION IN PARKINSON'S DISEASE MODELS	93.853	5 R01 NS060876-03		515,293
MECHANISMS OF GENETIC SEIZURE SUSCEPTIBILITY IN JUVENILE MYOCLONIC EPILEPSY	93.853	5 R01 NS061829-03		506,318
A RANDOMIZED TRIAL OF UNRUPTURED BRAIN ARTERIOVENOUS MALFORMATIONS (ARUBA)	93.853	5 U01 NS051483-05		480,742
NEUROTROPHIC FACTOR DEPRIVATION AND NEURONAL CELL DEATH	93.853	5 R01 NS033689-17		473,885
COMPUTATIONAL ANALYSIS OF HIGH-GRADE GLIOMAS	93.853	5 R01 NS061776-03		464,535
STRUCTURAL BASIS OF TRPC CHANNEL FUNCTION AND REGULATION	93.853	5 R01 NS045383-14R1		460,484
ROLE OF FAS DEATH RECEPTOR SIGNALING IN MOTOR NEURON DEGENERATION	93.853	5 R01 NS056422-05		455,666
NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	93.853	5 R01 NS012969-36		435,979
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 PJ1		416,634
GENETICS OF MOUSE SEIZURE SUSCEPTIBILITY	93.853	5 R01 NS061991-04		414,533
PROINFLAMMATORY ENZYMES IN AMYTROPHIC LATERAL SCLEROSIS	93.853	5 R01 NS0442269-07		405,564
DEVELOPMENT AND FUNCTION OF AN ADULT LOCOMOTION CIRCUIT IN DROSOPHILA	93.853	5 R01 NS070644-02		404,014

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CCOMPLEMENT-MEDIATED NEURONAL INJURY IN STROKE	93.853	5 R01 NS040409-09		391,039
BIOLOGY OF STEM CELLS IN THE ADULT MAMMALIAN BRAIN	93.853	5 R01 NS053884-05		389,056
IN-VIVO OPTICAL IMAGING OF NEUROVASCULAR COUPLING AND CEREBRAL METABOLISM	93.853	5 R01 NS063226-04R1		381,281
MOLECULAR GENETIC ANALYSIS OF LYSOSOMAL STORAGE DISORDER GENES IN PD	93.853	5 R01 NS060113-03		371,166
THE ROLE OF DENDRITES IN THALAMOCORTICAL TRANSMISSION	93.853	5 R01 NS069679-02		364,262
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	2 P50 NS049060-06		364,035
ROLE OF PHOSPHOLIPIDS IN MEMBRANE TRAFFIC AT THE SYNAPSE	93.853	5 R01 NS056049-05		352,991
PATHOGENESIS OF NEURODEGENERATIVE DISEASES CAUSED BY MUTATIONS IN SENATAXIN	93.853	5 R01 NS064253-05		350,178
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 PJ4		346,658
REGULATION OF HCN CHANNEL TRAFFICKING AND FUNCTION IN THE BRAIN BY TRIP8B	93.853	5 R01 NS036658-13		337,039
NEURAL SUBSTRATES FOR MATCHING HEARING TO UTTERANCE	93.853	5 R01 NS023684-28R1		335,495
APOPTOSIS IN SUBSTANTIA NIGRA	93.853	5 R01 NS026836-20		334,731
CONTROL OF MOTOR NEURON DIFFERENTIATION	93.853	5 R37 NS033245-18		324,498
THE CONTRIBUTING EFFECTS OF MUSCLE, NERVE AND THE NMJ TO SMA PATHOLOGY	93.853	5 R01 NS057482-04		317,193
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	5 R01 NS36630-09		316,822
NEUROEPIDEMIOLOGY TRAINING PROGRAM	93.853	5 T32 NS007153-27		310,230
ESTABLISHMENT OF SEGMENTAL IDENTITY IN EMBRYONIC STEM CELL DERIVED MOTOR NEURONS	93.853	5 R01 NS058502-04		306,990
DENDRITIC PATTERNING BY INTERACTING EXTRINSIC CUES	93.853	5 R01 NS061908-04		301,674
PROSPECTIVE STUDY OF CLINICALLY NON-FUNCTIONING PITUITARY ADENOMAS	93.853	5 R01 NS070600-02		300,726
SMN CONTROL OF SNRNP BIOGENESIS: ROLE IN RNA SPLICING AND MOTOR NEURON SURVIVAL	93.853	5 R01 NS069601-02		289,344
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 PJ3		284,553
AUTOPHAGY AND NEURODEGENERATION	93.853	5 R01 NS063973-04		278,076
CONTROL OF MOTOR NEURON DIFFERENTIATION	93.853	5 R01 NS033245-16		258,815
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	2 P50 NS049060-06 PJ1		258,525
GENETIC ANALYSIS OF DOPAMINERGIC NEURON SPECIFICATION IN C.ELEGANS	93.853	5 R01 NS050266-08		255,953
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	2 R56 NS036630-10		244,677
STUDY OF CAROTID OCCLUSION AND NEUROCOGNITION (RECON)	93.853	5 R01 NS048212-05 R1		238,744
COMPUTATIONAL ANALYSIS OF HIGH-GRADE GLIOMAS	93.853	5 R01 NS061776-02		235,076
THE ROLE OF WHITE MATTER PROGENITORS IN GLIOMA FORMATION AND PROGRESSION	93.853	5 R01 NS066955-02		233,351
GENE-ENVIRONMENT INTERACTIONS IN AN AUTISM BIRTH COHORT	93.853	2 U01 NS047537-06A1		211,776
MOLECULAR PROFILING OF GAMMA MOTOR NEURON DEVELOPMENT	93.853	5 R21 NS072573-02		209,946
RCT: THE EFFECTS OF A NOVEL INTERVENTION TO IMPROVE STROKE SYMPTOM RECOGNITION	93.853	1 R01 NS067443-01A1		201,671
C1Q COMPLEMENT AND HYPOXIC-ISCHEMIC INJURY IN THE DEVELOPING BRAIN	93.853	5 R01 NS056146-04		199,343
AORTIC AND CARDIOVASCULAR DISEASE AND SILENT BRAIN INFARCTS	93.853	5 R01 NS036286-10R		191,936
NORTH AMERICAN SITES	93.853	5U01 NS043975-11 NAS		190,088
BK CHANNEL MODULATION BY BETA SUBUNITS	93.853	5 R01 NS054946-04R1		189,708
INVESTIGATION OF THE DOPAMINE SYSTEM IN FRONTOTEMPORAL DEMENTIA	93.853	5 R00 NS060766-05		187,502

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A FUNCTIONAL CELL-BASED SCREEN FOR POTENTIAL SMA THERAPEUTIC COMPOUNDS	93.853	5 R21 NS071092-02		183,086
CORTICAL LOCALIZATION IN TEMPORAL LOBE EPILEPSY	93.853	5 R01 NS035140-12		182,357
NEUROLOGICAL SCIENCES ACADEMIC DEVELOPMENT AWARD (NSADA)	93.853	3 K12NNS001698-10S1- SCI		181,796
BK CHANNEL MODULATION BY BETA SUBUNITS	93.853	2 R01 NS054946-05		181,594
A RANDOMIZED TRIAL OF UNRUPTURED BRAIN ARTERIOVENOUS MALFORMATIONS (ARUBA)	93.853	5 U01 NS051483-04 R1		181,581
NORTH AMERICAN SITES	93.853	4 U01 NS043975-10 NAS		180,389
NONCODING RNA TARGETS OF THE SPINAL MUSCULAR ATROPHY PROTEIN	93.853	5 R21 NS067448-02		175,663
NUCLEOCYTOPLASMIC INTERACTIONS AND DYNAMICS IN EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.853	5 R01 NS059352-04 GUN		175,347
PROFILING PATHOLOGICALLY NORMAL APOE VARIANTS TO IDENTIFY PATHWAYS FOR AD	93.853	5 R21 NS071836-02		168,816
FUNCTION AND DEVELOPMENT OF A C. ELEGANS GABAERGIC INTERNEURON	93.853	5 R01 NS039996-11		163,055
ROLE OF LRG-47 (LRGM1) IN EAE	93.853	1 R01 BS065482-01A2		162,710
ADVANCED GRADUATE TRAINING PROGRAM IN NEUROBIOLOGY AND BEHAVIOR	93.853	1 T32 NS064928-01A1		160,552
MECHANISMS OF D534CAPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11 COA		155,775
VALIDATING A NOVEL LIPID PHOSPHATASE TARGET IN ALZHEIMER'S DISEASE	93.853	1 R01 NS074536-01A1		154,696
BALANCING DEATH AND SURVIVAL FACTORS IN PD: THE ROLE OF THE STRESS-RELATED PROTEINS RTP801 AND ATF4	93.853	5 K08 NS070608-02		153,910
A NOVEL CELL-BASED HIGH-THROUGHPUT ASSAY FOR ALS	93.853	5 R21 NS064191-02		153,578
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 COE		150,624
CRCNS: MODELING IMPACT OF RECEPTOR ARRANGEMEN	93.853	1 R01 NS073119-01		140,938
MECHANISMS OF CEREBRAL PALSY RECOVERY INDUCED BY BALANCING MOTOR CORTEX ACTIVITY	93.853	5 K01 NS062116-04		137,421
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	2 P50 NS049060-06 COB		135,295
NUCLEOCYTOPLASMIC INTERACTIONS AND DYNAMICS IN EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.853	5 R01 NS059352-05		132,848
NORTH AMERICAN SITES - SCOPE #2	93.853	5 U01 NS043975-11 NA2		130,715
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	2 P50 NS049060-06 COC		121,255
NEUREXIN-NEUROLIGIN TRANS-SYNAPTIC INTERACTION: LEARNING-RELATED SYNAPTIC GROWTH	93.853	5 K08 NS053415-05		121,084
FUNCTIONAL ANATOMY OF VISUOMOTOR LEARNING & MOTOR MEMORY	93.853	5 R01 NS052804-04S1		120,020
ADVANCED GRADUATE TRAINING PROGRAM IN THEORETICAL NEUROSCIENCE	93.853	5 T32 NS064929-02		119,875
SPATIOTEMPORAL ERP MODELING AND BRAIN DEVELOPMENT (K-25)	93.853	5 K25 NS052230-05		111,842
MICROENVIRONMENT IN ENTERIC NEURON DEVELOPMENT	93.853	5 R01 NS015547-29		108,242
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 COC		107,452
GENETICS OF AD PARTIAL EPILEPSY WITH AUDITORY FEATURES	93.853	5 R01 NS036319-08		107,253
TRANSMITTER RELEASE FROM PERIPHERAL SENSORY NEURONS	93.853	5 R01 NS053575-05		102,533
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 COD		98,336
GENETIC MECHANISMS THAT REGULATE LEFT/RIGHT ASYMMETRIC NEURON SIZE	93.853	5 R03 NS067451-02		88,776
NEUROPATHOLOGY OF SEVERE MALARIA IN THAILAND: MRI STUDIES	93.853	5 R21 NS055348-02		86,745
LEVELS OF INFLAMMATORY MARKERS IN TREATMENT OF STROKE	93.853	5 R01 NS050724-04 R1		84,244
SEIZURE LOCATION USING SIGNAL PROCESSING TECHNIQUES	93.853	5 K08 NS048871-05 R		84,215
TRANSSYNAPTIC NEURODEGENERATION AFTER NERVE INJURY	93.853	7 R01 NS050408-06		74,072

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GENETIC EPIDEMIOLOGY OF SEIZURE DISORDERS IN ROCHESTER	93.853	5 R01 NS43472-05R1		68,543
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-12 COB		67,437
ECHO LAB	93.853	5 U01 NS043975-11 ECH		66,038
PROINFLAMMATORY ENZYMES IN AMYTROPHIC LATERAL SCLEROSIS	93.853	5 R01 NS0442269-07		63,153
VALIDATION OF A STANDARDIZED DIAGNOSTIC INTERVIEW FOR EPILEPSY	93.853	5 R03 NS065346-02		62,256
A MULTIDISCIPLINARY APPROACH TO EPILEPSY GENETICS	93.853	5 K02 NS050429-05		57,532
TRAFFICKING OF HCN1 ION CHANNELS	93.853	5 F32 NS064732-02		49,980
MOLECULAR PHYSIOLOGY OF VOLTAGE-GATED CA2+ CHANNELS	93.853	2 R01 NS053494-05		49,264
MITOCHONDRIA AS A TARGET FOR PROTECTION AGAINST HYPOXIC-ISCHEMIC BRAIN INJURY	93.853	1 R21 NS071121-01A1		48,978
BASAL GANGLIA AND DOPAMINE CONTRIBUTIONS TO FEEDBACK-BASED LEARNING	93.853	5 F32 NS063632-02		48,462
MECHANISM OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11 PJ3		46,096
CHARACTERIZATION OF THE MECHANISMS UNDERLYING RUBROSPINAL CONTROL OF MOVEMENT	93.853	5 F30 NS065580-02		43,102
MICROENVIRONMENT IN ENTERIC NEURON DEVELOPMENT	93.853	5 R01 NS015547-29 SC1		42,384
MICRORNAS AND THEIR TARGETS ARE NOVEL REGULATORS OF NMJ MORPHOLOGY IN DROSOPHILA	93.853	5 F30 NS061401-03		42,069
MECHANISMS UNDERLYING DEVELOPMENT AND RESISTANCE TO ALS OF SPECIFIC MOTOR POOLS	93.853	5 F30 NS065635-02		41,868
FUNCTION OF NEOCORTICAL GABAERGIC INTERNEURONS IN LOCAL CIRCUIT ACTIVATIONS	93.853	5 F30 NS063544-03		41,058
CORTICAL LOCALIZATION IN TEMPORAL LOBE EPILEPSY	93.853	5 R01 NS035140-10 RE		40,754
EARLY MOTOR NEURON ALTERATION IN A NON-CELL AUTONOMOUS ALS MODEL	93.853	5 R21 NS062180-02R1		40,624
STRUCTURAL AND FUNCTIONAL STUDIES OF INVERTEBRATE CLASSICAL CADHERINS	93.853	5 F30 NS061400-03		38,650
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11 PJ PJ1		37,500
PRE-CLINICAL TESTING OF NECROSTATIN AS A POTENTIAL SMALL MOLECULE FOR THE TREATMENT OF ALS	93.853	1 R21 NS072182-01		35,305
TRANSCRIPTIONAL CONTROL OF TARGET MUSCLE INNERVATION BY FACIAL MOTOR NEURONS	93.853	5 F32 NS060566-02		33,631
MECHANISMS OF GENETIC SEIZURE SUSCEPTIBILITY IN JUVENILE MYOCLONIC EPILEPSY	93.853	5 R01 NS061829-03 S1		32,533
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION - STAT	93.853	4 U01 NS039143-08 SC1		31,712
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION - STAT	93.853	5 U01 NS039143-09 SC1		29,604
STRUCTURAL BASIS OF CA2+ CHANNEL FUNCTION AND REGUALTION	93.853	5 R01 NS053494-04		28,072
PLD1 IN APP TRAFFICKING AND PROCESSING	93.853	1 F31 NS073387-01		24,808
GENE ENVIRONMENT INTERACTIONS IN AN AUTISM BIRTH COHORT	93.853	5 U01 NS047537-05		23,793
NEURAL MECHANISMS OF DISTRACTOR FILTERING IN THE PARIETAL CORTEX	93.853	5 F31 NS062507-03		22,498
MECHANISM OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11 COC		22,145
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	2 P50 NS049060-06 COD		21,515
GENERATING NEURONS THROUGH CELLULAR REPROGRAMMING	93.853	1 R21 NS076191-01		20,486
AUTOPHAGIC CLEARANCE OF ABERRANT TAU: BIOCHEMICAL AND THERAPEUTIC IMPLICATIONS	93.853	1 R01 NS074593-01		19,626
MICRORNAS AND THEIR TARGETS ARE NOVEL REGULATORS OF NMJ MORPHOLOGY IN DROSOPHILA	93.853	5 F30 NS061401-02		18,506
TRAJECTORY CONTROL AND MOTOR LEARNING IN STROKE	93.853	5 K02 NS048099-05		17,376
SPATIO TEMPORAL RELATIONSHIP OF PATHOLOGY AND FUNCTIONAL DECLINE WITH TAUOPATHY	93.853	1 R01 NS074874-01		16,526
NEURAL MECHANISMS OF DISTRACTOR FILTERING IN THE PARIETAL CORTEX	93.853	5 F31 NS062507-02		16,348

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MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11	COB	15,092
A GENOME-WIDE RNAI SCREEN FOR NEURONAL CELL FATE MUTANTS	93.853	1 R03 NS064482-02		13,647
TRANSCRIPTIONAL CONTROL OF TARGET MUSCLE INNERVATION BY FACIAL MOTOR NEURONS	93.853	5 F32 NS060566-03		12,075
ADVANCED GRADUATE TRAINING PROGRAM IN NEUROBIOLOGY AND BEHAVIOR	93.853	5 T32 NS064928-02		11,664
MECHANISMS OF SYNAPTIC DYSFUNCTION BY AMYLOID PEPTIDES	93.853	5 R01 NS049442-05		11,525
ADVANCED GRADUATE TRAINING PROGRAM IN THEORETICAL NEUROSCIENCE	93.853	5 T32 NS064929-03		11,513
MECHANISM OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11	PJ4	11,316
WARCEF TRIAL #58	93.853	5 U01 NS043975-11	T58	9,528
DE-CODING CIS-REGULATORY INFORMATION ON A GENOME-WIDE LEVEL WITH SINGLE NEURON RESOLUTION	93.853	5 R01 NS039996-09		9,270
MECHANISM OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11	COD	8,474
MECHANISM OF DOPAMINE NEURON DEGENERATION	93.853	2 P50 NS038370-11	COE	7,820
NEUROEPIDEMIOLOGY TRAINING PROGRAM	93.853	5 T32 NS007153-25		6,611
NEUROEPIDEMIOLOGY TRAINING PROGRAM	93.853	2 T32 NS007153-26		6,282
GENE ENVIRONMENT INTERACTIONS IN AN AUTISM BIRTH COHORT	93.853	5 U01 NS047537-05	SC1	6,123
BASAL GANGLIA AND DOPAMINE CONTRIBUTIONS TO FEEDBACK-BASED LEARNING	93.853	1 F32 NS063632-01A2		4,458
REGULATION OF PIP2 METABOLISM IN NERVE TERMINALS	93.853	5 F31 NS058096-03		1,697
DSCAM DIVERSITY AND CIRCUIT FORMATION IN THE DROSOPHILA NERVOUS SYSTEM	93.853	5 F31 NS060341-03		1,558
INFLAMMATORY AND INFECTIOUS BURDEN AND RISK OF STROKE	93.853	5 R01 NS048134-05		619
FUNCTION OF NEOCORTICAL GABAERGIC INTERNEURONS IN LOCAL CIRCUIT ACTIVATIONS	93.853	5 F30 NS063544-02		567
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS (SWIFT)	93.853	5 P50 NS049060-05	PJ3	339
MECHANISMS UNDERLYING DEVELOPMENT AND RESISTANCE TO ALS OF SPECIFIC MOTOR POOLS	93.853	1 F30 NS065635-01R1		272
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05	COA	137
MECHANISMS OF SYNAPTIC DYSFUNCTION BY AMYLOID PEPTIDES	93.853	3 R01 NS049442-05		10
STRUCTURAL AND FUNCTIONAL STUDIES OF INVERTEBRATED CLASSICAL CADHERINS	93.853	1 F30 NS061400-01A1		-344
GENETICS OF ROLANDIC EPILEPSY	93.853	5 R01 NS047530-04		-545
STRUCTURAL BASIS OF CA2+ CHANNEL FUNCTION AND REGULATION	93.853	3 R01 NS053494-01A1S SUP		-685
CHARACTERIZATION OF THE MECHANISMS UNDERLYING RUBROSPINAL CONTROL OF MOVEMENT	93.853	1 F30 NS065580-01		-931
STRUCTURAL AND FUNCTIONAL STUDIES OF INVERTEBRATE CLASSICAL CADHERINS	93.853	5 F30 NS061400-02		-1,716
TRAFFICKING OF HCN1 ION CHANNELS	93.853	1 F32 NS064732-01A1		-3,655
MOLECULAR AND CELLULAR ANALYSES OF DJ-1	93.853	5 R01 NS049070-05		-6,520
NEUROLOGICAL SCIENCES ACADEMIC DEVELOPMENT AWARD (NSADA)	93.853	5 K12 NS001698-10		-6,936
DOSE AND TREATMENT SELECTION IN CLINICAL TRIALS	93.853	5 R01 NS055809-03		-9,940
CLINICAL NEUROSCIENCE TRAINING PROGRAM	93.853	5 T32 NS007155-27		-13,015
PATHOGENESIS OF TUBEROUS SCLEROSIS CORTICAL LESIONS	93.853	5 F30 NS052037-03		-28,302
MAINTENANCE AND NEUROPROTECTION	93.853	5 R21 NS056312-02		-31,895
				33,659,833

Allergy, Immunology and Transplantation Research

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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NORTHEAST BIODEFENSE CENTER - ADMIN CORE & SUBS	93.855	5 U54 AI057158-07		5,700,967
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-04		1,844,911
NORTHEAST BIODEFENSE CENTER - CAREER DEV & DEV RSCH	93.855	5 U54 AI057158-07	S1	1,040,610
NORTHEAST BIODEFENSE CENTER - ADMIN CORE & SUBS	93.855	5 U54 AI057158-08		1,015,791
VIRAL ARRAYS FOR BIODEFENSE	93.855	5 U01 AI070411-05		712,746
ENHANCE PREVENTION IN COUPLES (EPIC)	93.855	5 R01 AI083038-03		707,547
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-06		680,131
NORTHEAST BIODEFENSE CENTER	93.855	5 U54 AI057158-07	S5	661,286
OSTEOPOROSIS IN HIV INFECTED POSTMENOPAUSAL WOMEN	93.855	5 R01 AI065200-07		646,330
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS UNIT	93.855	5 U01 AI069470-04RI		620,254
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2 U19 AI067773-06	SC1	617,105
MODELING OF S. AUREUS TRANSMISSION IN NORTHERN MANHATTAN	93.855	5 R01 AI077690-03		568,710
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-04	SC1	558,663
HIV PREVENTION & TREATMENT CRS CORE/PIF	93.855	5 U01 AI069470-05	HPT	505,220
ROLE OF ANTHRAX TOXIN RECEPTORS IN ANGIOGENESIS AND ENDOTHELIUM	93.855	5 R01 AI064654-04		466,371
PIG TO HUMAN THYMIC XENOTRANSPLANATION	93.855	5 R01 AI084903-02		448,279
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-05	SC1	441,635
RHINOVIRUS PATHOGENESIS AND HOST RANGE	93.855	5 R01 AI050754-10		435,010
ROLE OF PFCRT IN CHLOROQUINE RESISTANCE IN P. FALCIPARUM	93.855	5 R01 AI050234-10		426,490
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS UNIT	93.855	5 U01 AI069470-05		422,888
REGULATION OF NF-KB AND IKB PROTEINS	93.855	5 R37 AI033443-19		406,020
ROLE OF PKA IN AUTOIMMUNE DIABETES THROUGH DENDRITIC CELLS (DC) AND REGULATORY T (TREG) CELLS	93.855	1 R01 AI079186-01A2		399,378
RISK FACTORS FOR SPREAD OF STAPHYLOCOCCUS AUREUS IN PRISONS.	93.855	5 R01 AI082536-02		397,684
EXPLOITING FATTY ACID METABOLISM TO CURE MALARIA	93.855	5 R01 AI085584-03		392,229
PHARMACOLOGIC APPROACHES TO COMBATING RESISTANCE TO ANTIMALARIAL COMBINATIONS	93.855	5 R01 AI079709-04		386,166
HIV PREVENTION & TREATMENT CRS CORE/PIF	93.855	5 U01 AI069470-04	R1 HPT	381,449
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2 U19 AI067773-06	SC2	340,849
ROLE OF CD47 IN XENOGRAFT REJECTION BY MACROPHAGES	93.855	5 R01 AI064569-05		332,069
RISK FACTORS FOR SPREAD OF STAPHYLOCOCCUS AUREUS IN PRISONS	93.855	5 R01 AI082536-02		325,367
MOLECULAR CONTROL OF PLASMACYTOID DENDRITIC CELL DEVELOPMENT AND FUNTION	93.855	5 R01 AI072571-04		297,401
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-05		284,143
GENETIC APPROACHES TO THE STUDY OF PLASMACYTOID DENDRITIC CELL FUNCTION	93.855	5 R21 AI085439-02		264,222
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.855	5 T32 AI049821-10		242,792
IMPAACT CRS	93.855	5 U01 AI069470-05	IMP	237,925
NORTHEAST BIODEFENSE CENTER	93.855	5 U54 AI057158-08	S5	218,771
NORTHEAST BIODEFENSE CENTER	93.855	5 U54 AI057158-07	S3	207,172
MOLECULAR CHARACTERIZATION OF NOVEL ASTROVIRUSES	93.855	5 R21 AI090196-02		200,018

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MECHAMISM OF T CELL RECEPTOR MEDIATED ACTIVATION OF NFKAPPAB	93.855	5 R01 AI068977-06		198,057
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2U19AI067773-06 SC3		187,581
IMPAACT CRS	93.855	5 U01 AI069470-04 R1 IMP		179,925
PARTICIPATION OF MUCOSAL TYPE I INTERFERON SIGNALING IN PULMONARY DISEASE	93.855	5 R21 AI083491-02		172,845
NORTHEAST BIODEFENSE CENTER: MULTI-CENTER BLINDED ANALYSIS OF XMRV/MLV IN CHRONIC FATIGUE SYNDROME	93.855	5 U54 AI057158-07 S6		171,059
TRAINING IN PEDIATRIC INFECTIONS DISEASES	93.855	5 T32 AI007531-12		147,554
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2U19AI07773-06 SC4		147,529
IFN-IS AT THE INTERFACE OF INNATE AND ADAPTIVE IMMUNITY	93.855	3 R01 AI058211-05S2		144,869
CBL MEDIATED UBIQUITINATION IN AUTOIMMUNITY	93.855	5 R01 AI062931-05		134,316
SPATIAL COORDINATION OF CD28 AND TCR SIGNALING	93.855	5 R01 AI088377-02R1		123,697
GARDNERELLA VAGINALIS: TOXIN PRODUCTION AND PATHOGENESIS	93.855	1 R01 AI092743-01A2		120,677
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2U19AI067773-06 SC5		120,108
NORTHEAST BIODEFENSE CENTER: MULTI-CENTER BLINDED ANALYSIS OF XMRV/MLV IN CHRONIC FATIGUE SYNDROME	93.855	5 U54 AI057158-08 S6		110,819
MECHANISMS OF S. AUREUS TRANSMISSION AND PER	93.855	5 K08 AI090013-02		107,902
PATHOGENESIS & EPIDEMIOLOGY OF S EPIDERMIDIS VENTRICULAR ASSIST DEVICE INFECTIONS	93.855	5 K08 AI072043-05		107,236
IFN-IS AT THE INTERFACE OF INNATE AND ADAPTIVE IMMUNITY	93.855	3 R01 AI058211-05R1 SUP		76,669
ENHANCE PREVENTION IN COUPLES (EPIC)	93.855	5 R01 AI083038-03 S1		76,552
REGULATION OF NF-KB TRANSCRIPTIONAL ACTIVITY	93.855	7 R01 AI066109-06		76,227
REGULATORY MODULES IN NORMAL AND TRANFORMED B-CELLS	93.855	5 R01 AI066116-05		70,371
RHINOVIRUS PATHOGENESIS AND HOST RANGE	93.855	5 R01 AI050754-10 SC1		64,687
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2 U19 AI067773-06 SC6		63,101
PLANNING FOR A PHASE 2/2B MICROBICIDE STUDY: VIVAGEL FOR HSV PREVENTION IN WOMEN	93.855	1 R34 AI090051-01		61,248
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-07 SC SC7		50,073
TRAINING IN PEDIATRIC INFECTIONS DISEASES	93.855	2 T32 AI007531-11		47,988
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.855	5 T32 AI049821-09		35,803
OSTEOPOROSIS IN HIV-INFECTED POSTMENOPAUSAL WOMEN	93.855	5 R01 AI065200-05		35,449
NORTHEAST BIODEFENSE CENTER	93.855	5 U54 AI057158-08 S3		30,357
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	2 U19 AI067773-06		24,508
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ PJ1		23,235
HIV AND THE MENOPAUSAL TRANSITION: EFFECTS ON MUSCULOSKELETAL HEALTH	93.855	1 R01 AI095089-01		22,348
NORTHEAST BIODEFENSE CENTER - BIostat SCOPE	93.855	5 U54 AI057158-07 S7		21,548
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ PJ3		19,741
NORTHEAST BIODEFENSE CENTER - CAREER DEV & DEV RSCH	93.855	5 U54 AI057158-08 S1		18,206
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 CO COA		11,296
NORTHEAST BIODEFENSE CENTER	93.855	5 U54 AI057158-07 S2		7,705
NORTHEAST BIODEFENSE CENTER - BIostat SCOPE	93.855	5 U54 AI057158-08 S7		7,066
PROBING THE INNATE RESPONSE TO 3', 5'- CYCLIC DIGUANYLATE(C-DIGMP)	93.855	1 R21 AI096088-01		6,026

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AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ PJ4		3,638
RESISTANCE OF BACILLUS ANTHRACIS TO LYSOZYME	93.855	5 R21 AI076841-02		3,431
UNDERSTANDING THE ROLE OF KB RAS PROTEINS IN SIGNALING AND DEVELOPMENT	93.855	1 R01 AI093985-01		3,370
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ PJ2		2,429
GENOME CENTER: GENE EXPRESSION PATTERNS AND LIFESTYLES IN LEGIONELLA	93.855	5 R01 AI064481-05		2,407
VARICELLA ZOSTER VIRUS:CLINICAL IMPLICATIONS OF IMMUNITY	93.855	5 R01 AI024021-20		1,599
IMMUNOLOGICAL MONITORING OF HEART ALLOGRAFT RECIPIENTS	93.855	5 R01 AI055234-04		67
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 R		34
IFN-IS AT THE INTER FACE OF INNATE AND ADAPTIVE IMMUNITY	93.855	3 R01 AI058211-05R1		17
THE ROLE OF E2-2 IN THE DEVELOPMENT AND FUNCTION OF PLASMACYTOID DENDRITIC CELLS	93.855	5 F31 AI080184-02		-10
THE IMPACT OF MOBILITY ON HIV CARE IN NEW YORK CITY AND THE DOMINICAN REPUBLIC	93.855	1 K23 AI081538-01A1		-97
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS(CC-CTU)	93.855	1 U01 AI069470-01 IMP		-6,457
VIRAL ARRAYS FOR BIODEFENSE	93.855	5 U01 AI070411-04		-6,687
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.855	5 T32 AI049821-08		-8,478
NORTHEAST BIODEFENSE CENTER	93.855	2 U54 AI057158-06 S4		-14,071
NORTHEAST BIODEFENSE CENTER - ADMIN CORE & SUBS	93.855	2 U54 AI057158-06		-14,465
GENETICS OF MONOCYTE KILLING BY BACTERIA	93.855	5 R01 AI023549-25		-18,198
NORTHEAST BIODEFENSE CENTER	93.855	5 U54 AI057158-07 S4		-20,991
CD8+ T CELLS CONTROL AUTOIMMUNITY IN EAE	93.855	5 R56 AI065609-02		-60,444
				26,726,071
Microbiology and Infectious Diseases Research				
MYOSIN II AND GLIOMA DISPERSION	93.856	1 R01 NS066992-01A1		295,995
TRAINING PROGRAM IN MICROBIOLOGY FOR INFECTIOUS DISEASES	93.856	5 T32 AI007161-30 R1		77,349
LARGE-SCALE ANALYSIS OF CANDIDA ALBICANS GENE FUNCTION	93.856	5 R01 AI057804-05		13,400
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.856	5 T32 AI049821-05		1
BONE MASS AND MINERAL METABOLISM IN HIV+ WOMEN	93.856	5 K23 AI059884-05		-3
STUDIES OF HUMAN AND MURINE SYSTEMIC LUPUS ERYTHEMATOSUS	93.856	5 P01 AI051392-05		-3,864
				382,878
Biomedical Research and Research Training				
MEDICAL SCIENTIST TRAINING PROGRAM	93.859	5 T32 GM007367-35		1,070,823
GENETIC ANALYSIS OF NEMATODE CELL DIFFERENTIATION	93.859	5 R01 GM030997-29		767,001
MECHANISM OF SPONTANEOUS AND DSB-INDUCED REPAIR	93.859	4 R37 GM050237-18		711,089
MECHANISMS OF ALTERNATIVE SPLICING OF PRE-MRN	93.859	5R01GM048259-25		665,284
MOLECULAR GENETICS OF CYTOPLASMIC DYEIN	93.859	5 R01 GM047434-19		523,719
MRNA SYNTHESIS IN ANIMAL CELLS - 3' END FORMATION	93.859	5 R01 GM028983-31		510,257
MECHANISMS OF HOMOLOGOUS RECOMBINATION IN YEAST	93.859	5 R01 GM041784-23		485,960
STRUCTURAL AND FUNCTIONAL STUDIES OF CHANNELS AND PUMPS BY SOLID STATE NMR	93.859	5 R01 GM088724-02		484,412

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THE STRUCTURAL DYNAMICS OF TRANSLATION INITIATION	93.859	5 R01 GM084288-03		482,826
MOLECULAR MECHANISMS OF CARGO CAPTURE INTO ER-DERIVED TRANSPORT VESICLES	93.859	5 R01 GM085089-04		479,187
REGULATION OF MICROTUBULES BY RHO GTPASES	93.859	5 R01 GM62939-10		468,839
TRAINING IN CELLULAR, MOLECULAR AND BIOPHYSICAL STUDIES	93.859	5 T32 GM008224-24		441,679
MOLECULAR GENETICS OF SEGMENT IDENTITY	93.859	5 R01 GM054510-19		410,612
CELLULAR AND MOLECULAR FOUNDATIONS OF BIOMEDICAL SCIENCE	93.859	5 T32 GM008798-10		395,695
VISUALIZING THE DYNAMICS OF CHROMATIN AND CHROMATIN REMODELING PROTEINS	93.859	5 R01 GM082848-04		393,450
MECHANISM OF RENAL PROTECTION WITH VOLATILE ANESTHETICS	93.859	5 R01 GM067081-08		391,869
REGULATION OF DNA REPUBLICATION BY MCM PROTEINS	93.859	5 R01 GM077495-04		391,424
NMR STUDIES OF STRUCTURES AND DYNAMICS OF PROTEINS	93.859	5 R01 GM050291-17		390,796
ER EXPORT AND THE QUALITY CONTROL CHECKPOINT DURING MEMBRANE PROTEIN BIOGENESIS	93.859	5 R01 GM078186-05		369,976
STRUCTURAL ANALYSIS OF MACOMOLECULAR ASSEMBLIES	93.859	5 R01 GM029169-29		361,791
MICROTUBULE ORGANIZATION AND NUCLEAR POSITIONING	93.859	5 R01 GM069670-07		356,488
CONTROL OF TRANSCRIPTION TERMINATION IN E. COLI	93.859	5 R01 GM037219-23		353,876
PROTEIN MOTIONS IN RECOGNITION, REGULATION AND CATALYSIS	93.859	2 R01 GM059273-13		353,036
FUNCTION OF THE BROMODOMAIN PROTEIN BRDT IN SPERMATOGENESIS	93.859	5 R01 GM081767-04		345,143
SOMATIC STEM CELLS IN THE DROSOPHILA	93.859	5 R01 GM079351-03		344,041
ASSEMBLY AND PLACEMENT OF THE CELL DIVISION RING	93.859	5 R01 GM056836-13		337,951
MECHANISMS OF ANESTHETIC EFFECTS ON TACHYKININ INDUCED AIRWAY TONE	93.859	5 R01 GM065281-08		337,536
STRUCTURAL STUDIES OF METABOTROPIC GABA RECEPTORS	93.859	5 R01 GM088454-03		334,490
THE MRAD9 RADIORESISTANCE GENE	93.859	5 R01 GM079107-10		327,055
ASSEMBLY OF POLYCYSTIN COMPLEXES	93.859	5 R01 GM08234-03		326,635
PEPTIDOGLYCAN SYNTHESIS IN SPORULATION	93.859	5 R01 GM081368-04		322,307
EPIGENETIC REGULATION BY PWWP DOMAIN PROTEINS	93.859	5 R01 GM085145-04R1		322,207
MECHANISMS OF INTEGRIN-MICROTUBULE CROSS-TALK	93.859	5 R01 GM068595-08		321,140
PREDOCTORAL TRAINING GRANT IN GENETICS AND DEVELOPMENT	93.859	5 T32 GM007088-36		319,268
THE CHEMISTRY AND BIOLOGY OF RESVERATROL-BASED OLIGOMERS	93.859	5 R01 GM084994-03		305,738
TRAINING PROGRAM IN MOLECULAR BIOPHYSICS	93.859	5 T32 GM008281-23		298,138
MOLECULAR BASIS OF CADHERIN MEDIATED CELL ADHESION	93.859	5 R01 GM062270-09		292,731
GENETICS OF THE FORMATION OF REPAIR & RECOMBINATION FOCI	93.859	2 R01 GM067055-09		286,923
SIGNALING SPECIFICITY IN DROSOPHILA SERPENTINE RECEPTORS	93.859	5 R01 GM057043-12		278,669
ASYMMETRIC SYNTHESIS OF MACROLIDE ANTIBIOTICS	93.859	5 R01 GM058133-11		278,628
BREAK-INDUCED REPLICATION AND GENOME REARRANGEMENTS	93.859	5 R01 GM94386-02		273,920
EXON RECOGNITION DURING CONSTITUTIVE PRE-MRNA SPLICING	93.859	3 R01-GM-072740-05A1		267,338
MODELING HYDROPHOBIC AND HYDROPHILIC INTERACTIONS	93.859	5 R01 GM043340-19		266,562
PROXIMO-DISTAL PATTERNING IN THE DROSOPHILA APPENDAGES	93.859	2 R01 GM058575-13		266,131
COMPUTER STUDIES OF PROTEIN STRUCTURE AND FUNCTION	93.859	5 R01GM030518-29		265,082

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C-H BOND FUNCTIONALIZATION IN COMPLEX ORGANIC SYNTHESIS	93.859	5 R01 GM060326-09		245,164
THEORETICAL STUDIES OF METALLOPROTEIN CHROMOPHORES	93.859	5 R01 GM040526-23		240,374
MODELING CONTRACTILE RING CONSTRICTION IN FISSION YEAST	93.859	5 R01 GM086731-02		237,633
EXPERIMENTALLY GUIDED RIBOSOMAL RNA MODELING	93.859	5 R01 GM055440-15		228,219
HEDGEHOG SIGNALING IN DROSOPHILA	93.859	5 R01 GM041815-23		213,606
STRUCTURE AND FUNCTION OF 5' TO 3' EXORIBONUCLEASES	93.859	1 R01 GM090059-01A1		212,596
REGULATION OF SNF1/AMPK PATHWAY IN YEAST	93.859	5 R01 GM034095-26		202,995
STRUCTURE, MECHANISM, AND INHIBITION OF ALKB HOMOLOGUES	93.859	5 R01 GM077360-04		195,639
ANESTHESIOLOGY RESEARCH TRAINING	93.859	5 T32 GM008464-18		179,430
TRAINING PROGRAM IN PHARMACEUTICAL SCIENCES	93.859	5 T32 GM007182-33		173,642
STRUCTURAL BIOLOGY OF G-PROTEIN COUPLED RECEPTORS	93.859	5 R01 GM068671-08		165,588
COMPREHENSIVE ANNOTATION OF SUBCELLULAR LOCALIZATION IN ENTIRE ORGANISMS	93.859	5 R01 GM079767-04		160,808
COMPUTATIONAL ANNOTATION OF ORPHAN METABOLIC ACTIVITES	93.859	5 R01 GM079759-03		159,840
HEME A AND CYTOCHROME OXIDASE BIOSYNTHESIS	93.859	5 R01 GM050187-16		156,676
DEFINING A NOVEL TRIGGER FOR APOPTOSIS	93.859	5 R01 GM085081-03		145,826
PROXIMO-DISTAL PATTERNING IN THE DROSOPHILA APPENDAGES	93.859	5 R01 GM058575-12		143,690
ASSEMBLY AND PLACEMENT OF THE CELL DIVISION RING	93.859	2 R01 GM056836-14		140,181
ELUCIDATING THE MECHANISMS OF DNA RECOMBINATION	93.859	5 R01 GM074739-05		135,697
STRUCTURAL BIOLOGY OF PRE-RNA 3'-END PROCESSING	93.859	5 R01 GM077175-04		131,658
TRAINING PROGRAM IN COMPUTATIONAL BIOLOGY	93.859	5 T32 GM082797-03		131,203
GENETICS OF THE FORMATION OF REPAIR & RECOMBINATION FOCI	93.859	5 R01 GM067055-08		121,598
THERAPEUTIC TARGETING OF THE GABAA CHANNEL ON AIRWAY SMOOTH MUSCLE	93.859	5 K08 GM093137-02		111,789
MECHANISMS OF CELL COMPETITION THAT REGULATE GROWTH DURING DEVELOPMENT	93.859	2 R01 GM078464-05A1		100,281
STRUCTURE, MECHANISM, AND INHIBITION OF ALKB HOMOLOGUES	93.859	5 R01 GM077360-04 A1		93,856
EXPERIMENTALLY GUIDED RIBOSOMAL RNA MODELING	93.859	5 R01 GM055440-13		89,512
MECHANISTIC INSIGHTS INTO THE SHU COMPLEX AND SGS1 IN DNA REPAIR AND REPLICATION	93.859	5 K99 GM088413-02		86,995
MITOCHONDRIAL MOTILITY AND INHERITANCE	93.859	5 R01 GM045735-15		81,212
STRUCTURAL BIOLOGY OF G-PROTEIN COUPLED RECEPTORS	93.859	5 R01 GM068671-08		78,457
MEDICAL SCIENTIST TRAINING PROGRAM	93.859	5 T32 GM007367-36		76,248
MECHANISTIC BASIS FOR AMINO ACID DISCRIMINATION BY THE TRANSLATIONAL MACHINERY	93.859	1 R01 GM090126-01A1		71,749
CONTROL OF TRANSCRIPTION TERMINATION IN E. COLI	93.859	2 R56 GM037219-22A1		66,407
MRNA SYNTHESIS IN ANIMAL CELLS--3 END FORMATION	93.859	5 R01 GM028983-25		63,317
MEDICAL GENETICS TRAINING PROGRAM	93.859	1 T32 GM082771-01A2		60,249
OMPUTATIONAL ANALYSIS OF PHOSPHOINOSITIDE SIGNALING	93.859	5 R01 GM071700-05		59,080
EXON RECOGNITION DURING CONSTITUTIVE PRE-MRNA SPLICING	93.859	2 R56 GM072740-05		56,296
REGULATION OF MICROTUBULES BY RHO GTPASES	93.859	3 R01 GM062939-09S1		56,004
GENETIC ANALYSIS OF NEMATODE CELL DIFFERNTIATION	93.859	5 R01 GM030997-29		53,894

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ENTIRELY IN VIVO ENZYME EVOLUTION AND ENGINEERING OF CRE RECOMBINASE	93.859	5 F32 GM089031-02		50,474
ELUCIDATING THE MECHANISMS INVOLVED IN(DYS) REGULATION OF SODIUM CHANNELS	93.859	5 F32 GM089047-02		50,210
FLUORESCENCE METHODS FOR HT VALIDATION AND PRODUCTION OF PROTEIN COMPLEXES	93.859	1 R01 GM097089-01		49,809
TRANSCRIPTIONAL REGULATION BY PROTEIN SUMOYLATION	93.859	1 R01 GM097174-01		48,449
EXON RECOGNITION DURING CONSTITUTIVE PRE-MRNA SPLICING	93.859	3 R01 GM072740-05A1S MAN		48,218
THE COORDINATION CHEMISTRY OF NANOCRYSTAL SURFACES: UNDERSTANDING THE ROLE OF VAL	93.859	1 F32 GM095706-01		42,445
NANOSTRUCTED DEVICES FOR MEASURING CELL MECHANICS.	93.859	5 R01 GM076415-04		40,817
EXON RECOGNITION DURING CONSTITUTIVE PRE-MRNA SPLICING	93.859	3 R01 GM072740-05A1S CHA		38,873
STRUCTURE AND FUNCTION OF 5' TO 3' EXORIBONUCLEASES	93.859	1R01 GM090059-01A1 M MJ1		38,409
THE STUDY OF PHOSPHATIDIC ACID AND PHOSOPOLIPASE D IN MEMBRANE TRAFFICKING	93.859	1 F31 GM093847-01A1		37,675
MECHANISMS OF ANESTHETIC EFFECTS ON TACHYKININ INDUCED AIRWAY TONE	93.859	2 R01 GM065281-09		37,548
STRUCTURAL AND FUNCTIONAL STUDIES OF POTASSIUM CHANNELS BY SOLID STATE NMR	93.859	5 F32 GM087908-02		34,319
NEW APPROACH TOWARDS MAPPING OF COMPLEX HUMAN DISORDERS	93.859	5 R01 GM070789-05R1		33,295
EFFICIENT SYNTHESIS OF THE SPONGISTATIN EF RING SEGMENT AND ANALOGUE SAR STUDY	93.859	1 F32 GM090487-01		32,078
INVESTIGATION OF THE ESTABLISHMENT OF THE PRION STATE	93.859	7 R01 GM070934-06		28,031
THE ROLE OF NOTCH IN BEHAVIORAL PLASTICITY	93.859	1 R01 GM095797-01		26,545
INFLUENCE OF EXTRACELLULAR MATRIX ON THE ASSEMBLY OF MECHANOSENSORY COMPLEXES	93.859	5 F32 GM083645-03		26,077
ASSEMBLY AND EXPORT OF HIV MESSENGER RIBONUCLEOPROTEINS	93.859	5 F32 GM087737-02		25,696
UNDERSTANDING THE REGULATION OF MEGAKAROBLASTIC LEUKEMIA 1 (MKL1)	93.859	5 F31 GM082027-04		22,345
MECHANISMS OF CHROMATIN REMODELING AND ROADBLOCK CLEARANCE BY DNA MOTOR PROTEINS	93.859	1 K99 GM097177-01		21,368
THE STRUCTURAL DYNAMICS OF TRANSLATION INITIATION	93.859	3 R01 GM084288-03S1 CAB		21,236
PREDOCTORAL TRAINING GRANT IN GENETICS AND DEVELOPMENT	93.859	2 T32 GM0070088-37		15,552
EFFICIENT SYNTHESIS OF THE SPONGISTATIN EF RING SEGMENT AND ANALOGUE SAR STUDY	93.859	5 F32 GM090487-02R1		15,099
IDENTIFICATION OF HOX TARGET GENES CONTROLLING TISSUE GROWTH	93.859	5 F32 GM087047-02		13,344
A GENETIC ASSAY FOR PROTEIN EVOLUTION AND PROTEOMICS	93.859	5 R01 GM062867-09 SUP		13,162
STRATEGIES FOR HEAVY METAL DETOXIFICATION	93.859	2 R01GM046502-14A2		11,780
STRUCTURAL AND FUNCTIONAL STUDIES OF POTASSIUM CHANNELS BY SOLID STATE NMR	93.859	5 F32 GM087908-03		11,298
MEDICAL SCIENTIST TRAINING PROGRAM	93.859	5 T32 GM007367-34		6,750
INFLUENCE OF EXTRACELLULAR MATRIX ON THE ASSEMBLY OF MECHANOSENSORY COMPLEXES	93.859	5 F32 GM083645-02		5,627
NUCLEAR MAGNETIC RESONANCE STUDIES OF STRUCTURES AND DYNAMICS OF PROTEINS	93.859	5 R01 GM050291-15		5,444
MECHANISM OF SPONTANEOUS AND DOUBLE-STRAND-BREAK-INDUCED REPAIR	93.859	2 R01 GM050237-13 SUP		5,103
TRAINING IN CELLULAR, MOLECULAR AND BIOPHYSICAL STUDIES	93.859	5 T32 GM008224-25		5,038
MECHANISMS OF HOMOLOGOUS RECOMBINATION IN YEAST	93.859	5 R01 GM041784-21 R		3,880
THE STUDY OF PHOSPHATIDIC ACID AND PHOSOPOLIPASE D IN MEMBRANE TRAFFICKING	93.859	5 F31 GM093847-02		3,705
MECHANISMS OF DOUBLE-STRAND BREAK REPAIR IN YEAST	93.859	5 R01 GM054099-12		2,945
MECHANISM OF RENAL PROTECTION WITH VOLATILE ANESTHETICS	93.859	2 R01 GM067081-07 SC1		2,359
KINETIC DISCRIMINATION OF SUBSTRATES BY THE RIBOSOMAL BIOSYNTHETIC MACHINERY	93.859	5 F31GM086126-02		1,782

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REGULATING FOLDING AND TRANSPORT OF ABBERRANT PROTEINS	93.859	5 F31 GM078855-04		1,470
ELUCIDATING THE MECHANISMS INVOLVED IN(DYS) REGULATION OF SODIUM CHANNELS	93.859	1 F32 GM089047-01		1,386
HEDGEHOG SIGNALING IN DROSOPHILA	93.859	5 R01 GM041815-21		228
SINGLE MOLECULE STUDIES OF DNA ERROR RECOGNITION BY MISMATCH REPAIR ENZYMES	93.859	5 F32 GM080864-03		140
HIERARCHICAL BAYES METHODS FOR SERIAL DILUTION ASSAYS	93.859	5 R01 GM074806-03		-2
TRAINING PROGRAM IN MOLECULAR BIOPHYSICS	93.859	5 T32 GM008281-22		-189
TRAINING IN CELLULAR, MOLECULAR AND BIOPHYSICAL STUDIES	93.859	5 T32 GM008224-23		-220
ANALOGUES OF ZINC ENZYMES WITH SULFUR-RICH ACTIVE SITES	93.859	5 R01 GM046502-13R2		-291
MECHANISM OF SPONTANEOUS AND DOUBLE-STRAND-BREAK-INDUCED REPAIR	93.859	2 R01 GM050237-13 SC1		-742
THEORETICAL STUDIES OF PROTEIN FOLDING	93.859	5 R01 GM052018		-1,016
MECHANISM OF SPONTANEOUS AND DSB-INDUCED REPAIR	93.859	5 R37 GM050237-17		-6,939
CELLULAR AND MOLECULAR FOUNDATIONS OF BIOMEDICAL SCIENCE	93.859	5 T32 GM008798-10		-10,970
ANESTHESIOLOGY RESEARCH TRAINING	93.859	5 T32 GM008464-17		-11,033
MECHANISMS OF CELL COMPETITION THAT REGULATE GROWTH DURING DEVELOPMENT	93.859	5 R01 GM078464-04		-17,021
SUPPLEMENT TO PROMOTE DIVERSITY IN HEALTH - RELATED RESEARCH	93.859	5 R01 GM048259-23 A1		-71,734
MECHANISMS OF ALTERNATIVE SPLICING OF PRE-MRNA	93.859	5 R01 GM048259-23		-185,969
				23,479,014

Nat. Inst. of Child Health & Human Dvlpt.

DESIRE FOR PREGNANCY, CONTRACEPTION, AND HIV RISK AMONG SERODISCORDANT COUPLES	93.864	5 R01 HD058338-04		581,458
SOCIAL SCIENCE TRAINING AND RESEARCH SMS-HMU PARTNERSHIP	93.864	5 R24 HD056691-05		450,805
STEM CELLS AND CELL LINEAGE SPECIFICATION	93.864	5 T32 HD055165-04		279,306
EFFECT OF NURSE IMMIGRATION ON EMPLOYMENT AND EARNINGS OF U.S. NURSES	93.864	5 R01 HD056512-02		74,549
STEM CELLS AND CELL LINEAGE SPECIFICATION	93.864	5 T32 HD055165-05		43,321
				1,429,439

Child Health and Human Development Extramural Research

PRENATAL CYTOGENETIC DIAGNOSIS BY ARRAY-BASED COPY NUMBER ANALYSIS	93.865	5 R01 HD055651-05		1,119,027
IDENTIFICATION OF NOVEL GENES FOR CONGENITAL DIAPHRAGMATIC HERNIA	93.865	5 R01 HD057036-04		689,961
A LIFECOURSE APPROACH TO EMERGING HEALTH DISPARITIES IN A US BIRTH COHORT	93.865	5 R01 HD058515-04		613,517
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.865	3 U01 HD042823-05 S1		594,609
GENDER, POWER AND LATINO MENS HIV RISK	93.865	5 R01 HD056948-03		566,883
PRENATAL ALCOHOL IN SUDDEN INFANT DEATH SYNDROME AND STILLBIRTH (PASS) NETWORK	93.865	5 U01 HD055155-05		556,236
RAKAI ADOLESCENT PROJECT (RAP)	93.865	5 R01 HD061092-03		538,510
ROLE OF T-BOX GENES IN MOUSE DEVELOPMENT	93.865	5 R37 HD033082-15		498,315
CLINICAL RELEVANCE OF TRANSIENT NEVIRAPINE RESISTANCE	93.865	5 R01 HDO47177-05		408,680
NEUROBIOLOGY AND BEHAVIOR RESEARCH TRAINING GRANT	93.865	5 T32 HD007430-14		400,973
OSTEOCALCIN: THE HORMONAL LINK BETWEEN BONE AND REPRODUCTION	93.865	5 R01 HD065439-18		369,984
MOLECULAR PATHOGENESIS OF COENZYME Q10 DEFICIENCY	93.865	5 R01 HD057543-04		359,610

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TREATMENT OPTIONS FOR PROTEASE INHIBITOR EXPOSED CHILDREN	93.865	5 R01 HD061255-02		358,029
THE DEVELOPMENT OF EMOTION REGULATION MECHANISMS IMPACTING HEALTH	93.865	5 R01 HD069178-02		334,624
ROLE OF CYCLIN A'S MAMMALIAN MEIOSIS	93.865	5 R01 HD034915-13		322,132
ROLE OF PIP2 METABOLISM IMBALANCE IN DOWN SYNDROME	93.865	5 R01 HD055457-04		302,768
MECHANISM OF ACTION OF THE LISSENCEPHALY GENE LIS-1	93.865	5 R01 HD040182-11		298,538
MALÁRIA AND THE SAFETY OF IRON INTERVENTIONS: ABSORPTION AND NTBI	93.865	5 U01 HD061233-02RII		297,187
MOLECULAR PATHOGENESIS AND TREATMENT OF MNGIE	93.865	5 R01 HD056103-02		291,383
MULTILEVEL LATENT CLASS AND SOCIAL NETWORK MODELS FOR OBSERVATIONAL AND ADOLESCENT OBESITY DATA	93.865	7 U01 HD061940-02		291,362
WORK-FAMILY POLICIES AND CHILD AND FAMILY WELL-BEING	93.865	5 R01 HD047215-05		281,570
MATERNAL FETAL MEDICINE NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MEDICAL)	93.865	5 U10 HD040485-11		276,807
SAFER WEANING PRACTICES FOR HIV-INFECTED WOMEN	93.865	5 R01 HD05761-05		270,976
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION PROJECT 3	93.865	2 P01 HD032062-16	PJ3	266,502
COLUMBIA U CTR FOR CAREER DEV. IN REPRODUCTIVE SCIENCES	93.865	5 K12 HD001275-10		251,971
DESIRE FOR PREGNANCY, CONTRACEPTION, AND HIV RISK AMONG SERODISCORDANT COUPLES	93.865	5 R01 HD058338-03	S1	249,402
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION PROJECT 1	93.865	2 P01 HD032062-16	PJ1	247,403
MECHANISMS OF EFFECT OF IRON STATUS & INTERVENTIONS ON MALARIA & OTHER INFECTIONS	93.865	5 U01 HD064827-02		219,783
MATERNAL FETAL MEDICINE NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MEDICAL)	93.865	5 U10 HD040485-10 EE EEC		214,294
RETINOID RECEPTOR ANTAGONISTS AS NOVEL MALE CONTRACEPTIVES	93.865	5 U01 HD060479-02 RE		185,320
COLUMBIA POPULATION RESEARCH CENTER	93.865	5 R24 HD058486-02		179,228
MATERNAL FETAL MEDICINE UNIT NETWORK AT CUMC	93.865	2 U10 HD04085-12		174,626
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION PROJECT 2	93.865	2 P01 HD032062-16	PJ2	164,853
MATERNAL FETAL MEDICINE NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MEDICAL)	93.865	5 U10 HD040485-10 R2		163,161
TRISOMY AND OVARIAN AGE: AN EPIDEMIOLOGIC STUDY	93.865	5 R01 HD053814-03		162,835
RETINOID RECEPTOR ANTAGONISTS AS NOVEL MALE CONTRACEPTIVES	93.865	5 U01 HD060479-03		158,775
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.865	3 U01 HD042823-05	S2	153,904
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION CORE B	93.865	2 P01 HD032062-16	COB	152,710
DOCTORAL RESEARCH TRAINING IN SOCIOMEDICAL SCIENCES	93.865	5 T32 HD049339-05		147,639
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION PROJECT 1	93.865	5 P01 HD032062-17	PJ1	138,870
PRENATAL ALCOHOL IN SUDDEN INFANT DEATH SYNDROME AND STILLBIRTH (PASS) NETWORK	93.865	5 U01 HD055155-04		137,030
PRETERM BIRTH IN NULLIPAROUS WOMEN: AN UNDERSTUDIED POPULATION AT GREAT RISK (U10)	93.865	1 U10 HD063047-01		127,979
PLANNING OF PEDIATRICS ANESTHESIA AND NEURODEVELOPMENT ASSESSMENT (PANDA)	93.865	1 R34 HD060741-01A1		121,411
BETA2 ADRENOCEPTOR GENOTYPE AND PRETERM LABOR INCIDENCE AND OUTCOME	93.865	5 R01 HD048805-05		117,402
EARLY MARKERS OF NEURODEVELOPMENTAL RISK IN CHILDREN WITH CONGENITAL HEART DISEASE	93.865	5 K23 HD061601-02		107,290
MOTOR IMPAIRMENTS IN HUNTINGTON'S DISEASE: MECHANISMS AND OUTCOME MEASURES	93.865	1 K01 HD060912-01A1		104,733
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION CORE B	93.865	5 P01 HD032062-17	COB	98,547
A US-UK COMPARISON OF DISCRIMINATION & DISPARITIES IN HEALTH & HEALTH SERVICE USE	93.865	5 R01 HD061320-03		92,320
USING GOOGLE STREETVIEW TO MEASURE NEIGHBORHOOD CHARACTERISTICS	93.865	1 R21 HD062965-01		89,254

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A NOVEL SIGNALING PATHWAY FOR TISSUE HOMEOSTASIS	93.865	1 R21 HD067918-01A1		78,587
INVESTIGATING THE PATHOGENESIS OF COQ10 DEFIEIENCIES	93.865	5 K23 HD065871-02		75,319
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION PROJECT 3	93.865	5 P01 HD032062-17 PJ3		70,912
AUTONOMIC REACTIVITY DURING SLEEP POSITION THERMAL STRESS	93.865	5 R21 HD051160-02 R1		69,691
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	2 P01 HD032062-16		69,688
PRETERM BIRTH IN NULLIPAROUS WOMEN: AN UNDERSTUDIED POPULATION AT GREAT RISK (U10)	93.865	5 U10 HD063047-02		67,194
THE NUCLEOCYTOSKELETON IN PROGERIA AND AGING	93.865	1 R01 HD070713-01		65,804
IMMIGRANT SELECTIVITY AND DISPARITIES IN BIRTH OUTCOMES	93.865	5 R03 HD058067-02R1		63,816
COLUMBIA POPULATION RESEARCH CENTER	93.865	5 R24 HD058486-02 SCO		63,175
NICHD CONTRACEPTIVE CLINICAL TRIALS NETWORK (FEMALE CLINICALTRIAL TOPIC AREA)	93.865	5 N01 HHSN2752004033		58,904
THE CONSEQUENCES OF MIGRATION FOR CHILD DEVELOPMENT IN SENDING AREAS	93.865	5 R03 HD062691-02		57,167
COMPUTATIONAL MODELING OF INDIVIDUAL HEALTH BEHAVIOR	93.865	1 R21 HD067570-01		55,047
THE ROLE OF TBX6 IN THE DETERMINATION OF LEFT-RIGHT ASYMMETRY IN MICE	93.865	1 F31 HD065441-01		39,111
NEUROBIOLOGY AND BEHAVIOR RESEARCH TRAINING GRANT	93.865	5 T32 HD007430-15		38,880
USING GOOGLE STREETVIEW TO MEASURE NEIGHBORHOOD CHARACTERISTICS	93.865	1 R21 HD062965-01 AR		37,367
EEG SYNCHRONY OF PRETERM INFANTS: REGIONAL DISPARITIES AND PERINATAL RISKS	93.865	5 R03 HD057410-02		34,969
FUNCTIONAL ANALYSIS OF CRIPTO IN MOUSE EMBRYOGENESIS	93.865	5 R01 HD042837-14		34,788
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-17 PJ2		34,131
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-17 COA		33,788
IMPLICIT STATUS COMMUNICATION & MANAGEMENT: PHYSIOLOGICAL & SOCIAL COSTS	93.865	5 F31 HD060418-02		31,264
NEUROCHEMICAL CHALLENGE IN HUMAN STROKE RECOVERY	93.865	5 R01 HD043249-05		27,801
MECHANISMS OF EFFECT OF IRON STATUS & INTERVENTIONS ON MALARIA & OTHER INFECTIONS	93.865	1 U01 HD064827-01		26,964
A LIFECOURSE APPROACH TO EMERGING HEALTH DISPARITIES IN A US BIRTH COHORT	93.865	5 R01 HD058515-04 S1		25,876
MALARIA AND THE SAFETY OF IRON INTERVENTIONS: ABSORPTION AND NTBI	93.865	1 U01 HD061233-01		23,362
THE NUCLEOCYTOSKELETON IN PROGERIA AND AGING	93.865	1 R01 HD070713-01		19,884
TARGETING OF CYTOPLASMIC DYNEIN TO THE NUCLEAR ENVELOPE DURING BRAIN DEVELOPMENT	93.865	1 F32 HD063208-01		7,110
PROFESSIONAL DILEMMAS: HEALTH WORKER'S PERCEPTIONS OF POST ABORTION CARE IN SENEGAL	93.865	5 F31 HD059397-02		5,629
IMPLICIT STATUS COMMUNICATION & MANAGEMENT: PHYSIOLOGICAL & SOCIAL COSTS	93.865	1 F31 HD060418-01		714
DOCTORAL RESEARCH TRAINING IN SOCIOMEDICAL SCIENCES	93.865	5 T32 HD049339-04		574
RELIGIOUS RESPONSES TO HIV/AIDS IN BRAZIL	93.865	5 R01 HD050118-05		-4,492
PROFESSIONAL DILEMMAS: HEALTH WORKER'S PERCEPTIONS OF POST ABORTION CARE IN SENEGAL	93.865	1 F31 HD059397-01A1		-6,016
AUTONOMIC CONTROL & BIRTH OUTCOMES IN MINORITY WOMEN	93.865	5 R21 HD048612-02R1		-16,341
				15,459,590

Aging Research

GENETIC EPIDEMIOLOGY OF ALZHEIMERS DISEASE IN AFRICAN AMERICANS	93.866	5 R01 AG028786-05		1,787,894
EPIDEMIOLOGY OF BIOMARKERS OF RISK AND PROGRESSION IN LOAD	93.866	5 R01 AG037212-02		1,781,535
GENETIC CONSORTIUM FOR LATE ONSET ALZHEIMER'S DISEASE	93.866	5 U24 AG026395-05		1,237,290

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GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	5 R37 AG015473-13		1,208,321
QUESTIONABLE DEMENTIA: COURSE AND PREDICTORS OF OUTCOME	93.866	5 R01 AG017761-15		874,507
PREDICTORS OF SEVERITY IN ALZHEIMER'S DISEASE	93.866	5 R01 AG007370-20		843,111
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 CC CC		705,161
PATHOGENESIS OF PHYSICAL DISABILITY IN AGING WOMEN	93.866	5 R37 AG019905-10		625,402
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN FAMILIES	93.866	2 U01 AG023749-06		587,754
PATHOGENESIS OF PHYSICAL DISABILITY IN AGING WOMEN	93.866	5 R37 AG019905-08		558,417
CALPAIN INHIBITORS AGAINST ALZHEIMER'S DISEASE	93.866	5 U01 AG028713-03		515,436
SEROTONIN AS A REGULARY OF BONE MASS ACCRUAL: BASIC AND CLINICAL - PROJECT #1	93.866	1 P01 AG032959-01A1		457,137
MEDITERRANEAN DIET AND OTHER DIETARY PATTERNS IN ALZHEIMER'S DISEASE	93.866	5 R01 AG028506-04		416,819
DECISION-MAKING OVER THE LIFESPAN: HOW MEMORY AFFECTS PREFERENCES	93.866	3 R01 AG027934-04S1		400,219
PATHOPHYSIOLOGY OF HEART FAILURE WITH A NORMAL EJECTION FRACTION IN THE ELDERLY	93.866	5 R01 AG027518-04		391,305
EXERCISE, AGING, AND COGNITION: EFFECT AND MECHANISMS	93.866	5 R01 AG033546-02		386,235
WHITE MATTER HYPERINTENSITIES IN AGING AND DEMENTIA	93.866	5 R01 AG034189-02		374,041
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 GC		336,551
HISTONE ACETYLATION AND COGNITIVE AGING	93.866	5 R01 AG034618-02		328,623
ENDOGENOUS AMYLOID-BETA IN SYNAPTIC FUNCTION AND MEMORY	93.866	5 R01 AG034248-02		325,611
EARLY AD DETECTION WITH ASL MRI AND COVARIANCE ANALYSIS	93.866	5 R01 AG026114-05		320,439
MECHANISM OF COGNITIVE DYSFUNCTION: CEA AND STENTING	93.866	5 R01 AG007604-08		298,311
PILOT TRIAL OF METFORMIN IN AMNESTIC MCI	93.866	5 R01 AG026413-3		282,499
SEROTONIN AS A REGULARY OF BONE MASS ACCRUAL: BASIC AND CLINICAL - PROJECT #2	93.866	1 P01 AG032959-01A1 SC1		280,944
PRENATAL UNDER NUTRITION AND MORTALITY THROUGH AGE 63 PROJECT	93.866	5 R01 AG028593-04		273,806
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG017490-10		254,758
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 NP NPC		252,574
COMBINED EXERCISE AND COGNITIVE TRAINING INTERVENTION IN NORMAL AGING	93.866	5 R01 AG034178-03		247,963
FMRI AND MOUSE MODELS OF ALZHEIMER'S DISEASE	93.866	5 R01 AG025161-06		241,683
SEROTONIN AS A REGULARY OF BONE MASS ACCRUAL: BASIC AND CLINICAL PROJECT #3	93.866	1 P01 AG032959-01A1 SC2		213,938
SCREENING FOR AD THERAPEUTICS BASED ON A NOVEL LIPID PHOSPHATASE TARGET	93.866	5 R21 AG033199-02		207,276
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 PJ2		196,046
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 PJ1		191,036
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZEIMER DISEASE	93.866	5 P01 AG017490-10 PJ		183,349
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG174490-10		177,981
EXERCISE, AGE-RELATED MEMORY DECLINE, AND HIPPOCAMPAL FUNCTION	93.866	1 R01 AG035015-01A1		173,034
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 DC		171,583
EPIGENOMICS OF ALZHEIMER'S DISEASE	93.866	5 R01 AG036040-02 SCI		167,656
ALLELE-SPECIFIC MAPPING IN ALZHEIMER'S DISEASE	93.866	5 R01 AG035020-02		157,393
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21		143,694

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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THE EFFECT OF AGE ON NEUROMORPHOLOGY AND ITS COGNITIVE	93.866	5 K23 AG029949-05		134,754
NEUROPSYCHOLOGY AND COGNITION IN AGING	93.866	5 T32 AG000261-12		128,810
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-10 PJ2		127,580
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 PJ3		117,744
DIET, BIOMARKERS AND LUNG FUNCTION	93.866	5 K08 AG030235-03		114,714
EPIDEMIOLOGY OF MENOPAUSE AND DEMENTIA IN DOWN SYNDROME	93.866	5 R01 AG014673-10		114,401
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 EC		112,516
TEMPORAL CHANGES IN MICRORNA FUNCTION DURING TAU TANGLE ACCUMULATION	93.866	5 R21 AG033790-02		107,179
MAPPING CAUSATIVE FACTORS IN THE SORTILIN-RELATED PATHWAY IN ALZHEIMER'S DISEASE	93.866	5 K23 AG034550-03		106,175
SEROTONIN AS A REGULARY OF BONE MASS ACCRUAL: BASIC AND CLINICAL - CORE B	93.866	1 P01 AG032959-01A1 SC4		105,117
AWARENESS OF DEFICIT IN ALZHEIMER'S DISEASE	93.866	5 K23 AG032899-04		104,571
USE OF INTENSIVE CARE SERVICES FOR ELDERLY PATIENTS UNDERGOING HIGH RISK SURGICAL	93.866	5 K08 AG038477-02		102,917
ROLE OF CYCLOPHILIN D IN ABETA-INDUCED SYNAPTIC INJURY	93.866	1 R01 AG037319-01		100,612
IMPACT OF AGE-RELATED STRUCTURAL AND FUNCTIONAL NEURAL CHANGES ON COGNITIVE MEASURES	93.866	5 K01 AG035061-02		86,442
CALPAIN INHIBITORS AGAINST ALZHEIMER'S DISEASE	93.866	5 U01 AG028713-04		83,533
MIDCAREER MENTORING AWARD FOR PATIENT ORIENTED RESEARCH IN GERIATRIC CARDIOLOGY	93.866	1 K24 AG036778-02		82,242
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG174490-10		63,606
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 CCH		61,090
EPIGENOMICS OF ALZHEIMER'S DISEASE	93.866	5 R01 AG036040-02 SC2		58,571
SEROTONIN AS A REGULARY OF BONE MASS ACCRUAL: BASIC AND CLINICAL - CORE A	93.866	1 P01 AG032959-01A1 SC3		51,991
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY (DIVERSITY SUPPLEMENT)	93.866	3 P50 AG008702-21S1		51,468
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 PL2		47,499
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN	93.866	5 U01 AG023749-05S2		46,081
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	2 P50 AG008702-21 PL1		45,895
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-03 COC		45,849
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-03		45,478
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG017490-10		45,126
ASSESSING THE EFFECTS OF SYNJ1 HAPLOINSUFFICIENCY IN ALZHEIMER'S DISEASE MODELS	93.866	5 R03 AG033212-2		44,779
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-03 PJ2		44,364
QUESTIONABLE DEMENTIA: COURSE AND PREDICTORS OF OUTCOME	93.866	5 R01 AG017761-15 SC1		41,265
ASTROCYTES AND PHYSIOLOGICAL AMYLOID-BETA SIGNALING	93.866	5 F31 AG034753-02		39,559
NOVEL PDE5 INHIBITORS AS A THERAPEUTIC TOOL AGAINST ALZHEIMER'S DISEASE	93.866	1 U01 AG032973-01		37,765
THE ROLE OF TRIB3 IN NEURONAL APOPTOSIS CAUSED BY NGF DEPRIVATION	93.866	1 F31 AG033477-01A2		37,300
SPHINGOLIPIDS: REGULATORS OF STEROL-REGULATORY ELEMENT BINDING PROTEINS (SREBPS) AND LIPID METABOLIS	93.866	5 K08 AG025883-04		35,915
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 CC		29,468
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-10		26,794
NEUROPSYCHOLOGY AND COGNITION IN AGING	93.866	5 T32 AG000261-13		22,663

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PROTEOMIC STUDIES OF THE HUTCHISON-GILFORD PROGERIA	93.866	5 R01 AG025302-04		18,080
GENETIC EPIDEMIOLOGY OF ALZHEIMERS DISEASE IN	93.866	5 R01 AG028786-04 SC1		17,357
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 PJ1		17,173
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 NPC		13,147
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 PJ2		12,950
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-03 PJ3		12,345
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-03 COB		9,436
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 GC		8,673
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-03 PJ1		7,904
MODIFIERS OF AGE OF ONSET IN ALS STUDIED USING PATIENT IPS-DERIVED MOTOR NEURONS	93.866	1 F30 AG039238-01A1		6,219
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 DMC		6,017
COGNITIVE TEST PERFORMANCE OF AFRICAN AMERICAN ELDERS	93.866	5 R01 AG016206-08 SC1		5,962
GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	3 R37 AG015473-12S2		5,001
GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	3 R37 AG015473-12S1		5,001
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	3 P50 AG008702-22S1		4,458
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 DC		4,381
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20 COB		3,958
NIH PARTNERS IN RESEARCH PROGRAM	93.866	5 R03 AG033929-02		3,374
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22		3,331
LAMIN A MUTATION AND HUTCHINSON-GILFORD PORGERIA	93.866	5 R01 AG025240-03		3,111
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG174490-09		2,397
ASTROCYTES AND PHYSIOLOGICAL AMYLOID-BETA	93.866	1 F31 AG034753-01A1		1,417
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 CO COE		1,026
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG017490-09 COB		618
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 CCH		463
NEUROPSYCHOLOGY AND COGNITION IN AGING	93.866	2 T32 AG000261-11		259
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 PJ PJ1		161
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-22 EC		63
CALPAIN INHIBITORS AGAINST ALZHEIMER'S DISEASE	93.866	5 U01 AG028713-02		45
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN FAMILIES	93.866	5 U01 AG023749-05 SC1		-7
GENETICS CONSORTIUM FOR LATE ONSET ALZHEIMER'S DISEASE	93.866	5 U24 AG026395-02		-167
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	5 P01 AG026467-02 PJ2		-230
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN FAMILIES	93.866	5 U01 AG023749-05		-366
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 PAG008702-20 PJ3		-1,387
IMAGING OF COGNITION, LEARNING AND MEMORY IN AGING	93.866	5 R01 AG026158-05		-1,609
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG017490-09 PJ1		-1,923
PILOT AGING AND AVIATION SAFETY	93.866	7 R01 AG013642-10		-7,614

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CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG017490-09 PJ3		-17,798
CELLULAR COFACTORS, NEURONAL STRESS & RESCUE, AGING & ALZHEIMER DISEASE	93.866	5 P01 AG017490-09 PJ2		-38,576
				21,333,815
Vision Research				
RETINA: THE CONTROL OF PHOTORECEPTOR CELL FATE	93.867	5 R01 EY012536-12		582,734
ABSOLUTE FUNDUS AUTOFLUORESCENCE IN RETINAL DEGENERATIONS	93.867	5 R01 EY015520-07		552,807
THE ROLE OF ZIC GENES IN PATTERNING THE BINOCULAR PROJECTION	93.867	5 R01 EY015290-08		469,101
MEASURES OF HUMAN RECEPTOR AND POST RECEPTOR ACTIVITY	93.867	5 R01 EY009076-20		401,641
IMPACT OF LIPOFUSCIN IN RETINAL PIGMENT EPITHELIAL CELLS	93.867	5 R01 EY012951-11		401,097
GENETIC SUSCEPTIBILITY TO AGE-RELATED MACULAR DEGENERATION	93.867	2 R01 EY013435-09		367,968
GROWTH AND GUIDANCE OF RETINAL AXONS	93.867	5 R01 EY012736-22		365,462
THE NEUROPHYSIOLOGY OF VISUAL SEARCH: OCULOMOTOR AND VISUAL MECHANISMS	93.867	5 R01 EY017039-04		359,618
TOWARD MECHANISM- AND GENE-BASED THERAPIES FOR RETINAL DEGENERATION	93.867	5 R01 EY018213-04		340,355
CORE SUPPORT FOR VISION RESEARCH	93.867	5 P30 EY019007-02 SC1		335,031
ANTICIPATORY HEMODYNAMIC SIGNALS IN PRIMARY VISUAL CORTEX	93.867	5 R01 EY019500-03		330,970
IMAGING FUNCTIONAL CONNECTIVITY IN VISUAL CORTEX	93.867	5 R01 EY011787-12		327,086
STUDYING MODELS AND MECHANISMS OF OPTIC NERVE DISEASES	93.867	2 R01 EY002115-34		318,512
THE NEUROSPHYSIOLOGY OF SPATIAL VISION	93.867	2 R01 EY014978-06A1		273,486
CORE SUPPORT FOR VISION RESEARCH	93.867	5 P30 EY019007-02		244,042
EARLY DETECTION OF KERATOCONUS	93.867	7 R01 EY019055-02 R1		187,063
CALORIC RESTRICTION AND AGING IN EYES	93.867	5 R01 EY015293-05		179,571
GENETIC VARIATION IN AGE-RELATED MACULAR DEGENERATION	93.867	5 R01 EY013435-08R1		175,657
VISION SCIENCES TRAINING GRANT	93.867	5 T32 EY013933-10		167,299
GENETIC SUSCEPTIBILITY TO AGE-RELATED MACULAR DEGENERATION	93.867	2 R01 EY013435-09 SC1		149,239
A NOVEL TREATMENT FOR KERATOCONUS AND KERATECTASIAS USING NITRO TECHNOLOGY	93.867	5 R21 EY018937-02		126,011
STUDYING MODELS AND MECHANISMS OF OPTIC NERVE DISEASES ADAPTATION	93.867	5 R01 EY002115-33		82,698
THE ROLE AND MECHANISMS OF LIPFUSCIN FORMATION IN MACULAR DEGENERATION	93.867	1 R01 EY021207-01		66,274
THERAPEUTIC CORNEAL CROSS-LINKING USING ALIPHATIC BETA-NITROALCOHOLS	93.867	1 R01 EY020495-01A1		59,284
COMPLETING GENETIC ANALYSIS OF THE ABCA4 LOCUS	93.867	1 R01 EY021163-01		32,879
BIOMEDICAL IMAGE ENGINEERING OF MACULAR IMAGES	93.867	5 R01 EY015520-05		28,880
BIOMEDICAL IMAGE ENGINEERING OF MACULAR IMAGES	93.867	5 R01 EY015520-05 SC2		23,603
THERAPEUTIC CORNEAL CROSS-LINKING USING ALIPHATIC BETA-NITROALCOHOLS	93.867	1 R01 EY020495-01A1 SC1		15,018
VISION SCIENCES TRAINING GRANT	93.867	5 T32 EY013933-09		10,336
BIOMEDICAL IMAGE ENGINEERING OF MACULAR IMAGES	93.867	5 R01 EY015520-05 SC1		8,271
				6,981,993
Medical Library Assistance				
PHARMACOVIGILANCE USING NATURAL LANGUAGE PROCESSING, STATISTICS, AND THE EHR	93.879	5 R01 LM010016-03		501,777

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DISCOVERING AND APPLYING KNOWLEDGE IN CLINICAL DATABASES	93.879	5 R01 LM006910-12		444,811
BRIDGING THE SEMANTIC GAP BETWEEN RESEARCH ELIGIBILITY CRITERIA AND CLINICAL DATA	93.879	5 R01 LM009886-03		356,769
DEVELOPING FLEXIBLE EHR PLUG-INS TO RE-ENGINEER CLINICAL CARE AND RESEARCH WORKFL	93.879	5 R01 LM010815-02		212,123
IMPROVE PREDICTIONS OF STRUCTURE AND FUNCTION BY PREDICTPROTEIN	93.879	7 R01 LM007329-08		124,514
DEVELOPING FLEXIBLE EHR PLUG-INS TO RE-ENGINEER CLINICAL CARE AND RESEARCH WORKFL	93.879	5 R01 LM010815-02	SC1	92,843
LIBRARIAN INFOBUTTON TAILORING ENVIRONMENT	93.879	5 G08 LM009376-03		85,760
GETTING AWAY WITH MURDER? A SOCIAL AND CULTURAL HISTORY OF DRUNK DRIVING	93.879	5 G13 LM009702-03		53,770
SIDEWALK ASYLUMS: A HISTORY OF HOMELESSNESS AND MENTAL ILLNESS IN NEW YORK AND LA	93.879	5 G13 LM009707-02		53,158
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	5 T15 LM007079-20		48,529
THE REACH OF ETHICS: POLITICS, BIOETHICS & THE REGULATION OF SOCIAL INQUIRY	93.879	5 G13 LM009241-02		9,776
EHEALTH LITERACY BARRIERS AND SOLUTIONS FOR CONSUMER USE OF A HEALTH PORTAL	93.879	1 R21 LM010688-01		6,178
A BIOMEDICAL NATURAL LANGUAGE PROCESSING RESOURCE	93.879	5 R01 LM008634-04		-15,041
				1,974,967

Nat. Inst. of Child Health & Human Dvlpt.

TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	5 U01 HD042823-05	SC5	133,523
				133,523

International Research and Research Training

COLUMBIA UNIVERSITY - SOUTHERN AFRICAN AIDS INTERNATIONAL TRAINING/RESEARCH PROGRAM	93.989	2 D43 TW000231-16		554,206
BUILDING CAPACITY TO REDUCE ARSENICOSIS IN BANGLADESH	93.989	5 D43 TW005724-10		185,283
DOES ARSENIC MITIGATION IN BANGLADESH RAISE EXPOSURE TO BACTRIAL AND VIRAL PATHOGENS	93.989	5 R01 TW008066-03R1	PR	128,352
DOES ARSENIC MITIGATION IN BANGLADESH RAISE EXPOSURE TO BACTRIAL AND VIRAL PATHOGENS	93.989	5 R01 TW008066-03R1	CU	71,112
COLUMBIA UNIVERSITY - SOUTHERN AFRICAN AIDS INTERNATIONAL TRAINING/RESEARCH PROGRAM	93.989	5 D43 TW000231-17		59,569
THE MODULATION OF PCNA UBIQUITINATION BY P21 AND ITS SIGNIFICANCE FOR DNA REPAIR	93.989	5 R03 TW007440-03		40,426
DOES ARSENIC MITIGATION IN BANGLADESH RAISE EXPOSURE TO BACTRIAL AND VIRAL PATHOGENS	93.989	3 R01 TW008066-03S1	CEE	34,432
DOES ARSENIC MITIGATION IN BANGLADESH RAISE EXPOSURE TO BACTRIAL AND VIRAL PATHOGENS	93.989	3 R01 TW008066-03S1	LDE	32,240
INTERNATIONAL TRAINING PROGRAM IN EPIDEMIOLOGY OF AIDS	93.989	5 D43 TW000231-15		-293
				1,105,327

Nat. Inst. of Child Health & Human Dvlpt.

TREATMENT OPTIONS FOR PROTEASE INHIBITOR EXPOSED CHILDREN	93.999	3 R01 HD061255-01A2	SUP	375,747
CU - SOUTHERN AFRICAN AIDS INTL TRAINING/RSCH PRGM	93.999	3 D43 TW000231-16	S1	46,188
				421,935

Total Direct Award Programs:

332,912,715

Pass-through Awards

National Cancer Institute

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	93.000	SAICFI 28XS194	NCI CBIT/BIG	1,241,891
UNIVERSITY OF WISCONSIN	93.000	UWIS X561190	HHSN272200900052C	1,036,696

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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	93.000	SAIC 29XS192	HHSN261200800001E	619,150
CASE WESTERN RESERVE UNIVERSITY	93.000	CCWRU CU09-1	HHSN275200503406C	512,184
UNIVERSITY OF SOUTH FLORIDA	93.000	USF 6119-1117-00-K	HHSN26720070014C	262,084
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-3251-4609	NICHD-2004-07	261,090
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-3921	HHSN268201000045C	183,658
UNIVERSITY OF SOUTH FLORIDA	93.000	UFLRDA CU09-4618	NIDDK	105,986
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-3621	HHSN275201100002C	93,137
WAKEFOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MEDICINE	93.000	WUBGSM 31000	5 N01-HC-95178	76,982
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-3621	HHSN275201100002C	75,595
WAKEFOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MEDICINE	93.000	WFUHS 33000	HHSN268201100027C	74,819
UNIVERSITY OF WISCONSIN	93.000	UWIS X561190 SC1	HHSN272200900052C	63,634
MONTEFIORE MEDICAL CENTER	93.000	MMC CU01-2790	NCI N01-CM17103	59,032
UNIVERSITY OF WISCONSIN	93.000	UWIS X561190 SC2 SC2	HHSN272200900052C	58,187
WAKEFOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MEDICINE	93.000	WUBGSM WFUHS 33000	HHSN268201100027C	43,442
UNIVERSITY OF WISCONSIN	93.000	UWIS 267K131	HHSN272200900052C	36,866
UNIVERSITY OF CALIFORNIA, IRVINE	93.000	UCI 2011-2614	HHSN267200700021C	31,203
UNIVERSITY OF TEXAS M.D. ANDERSON	93.000	UTEXAS 30619/9802531	5 N01 AR62279/HHSN268200	28,703
UNIVERSITY OF WISCONSIN	93.000	UWIS X561190 SC3	HHSN272200900052C	21,691
UNIVERSITY OF TEXAS M.D. ANDERSON	93.000	UTMDA 25951/98025685	N01 CN 035159-06	21,625
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.000	CUCSF 107521	N01-AI-15416	21,431
THE CENTER FOR SOCIAL INNOVATION	93.000	CFSI CU10-2083	HHSN 271200800027C	18,739
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	93.000	SAICFI 10XS194	N01-CO-12400	18,063
ALBERT EINSTEIN COLLEGE OF MEDICINE	93.000	AECM 9-526-3779	HHSN268200625235C	16,764
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0255-3721-4609	1 R01 CA136056-01A1	12,482
UNIVERSITY OF TOLEDO HEALTH SCIENCE CAMPUS	93.000	UTHSC N-2011-39	HHSN261200433000C	11,364
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.000	CUCSD ITN10220-00SC	N01-AI-15416	11,016
UNIVERSITY OF TOLEDO HEALTH SCIENCE CAMPUS	93.000	UTHSC N-2011-40	HHSN261200433000C	10,332
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.000	UAB 000336417-027	HHSN268200900047C	10,306
GEORGETOWN UNIVERSITY	93.000	GU CU10-2847	U54 NS057405	4,972
NATIONAL HEART, LUNG, & BLOOD INST	93.000	2 P01 HL054591-11A1		760
CASE WESTERN RESERVE UNIVERSITY	93.000	CCWRU CU09-1721 SC1	HHSN275200503406C	161
WAKEFOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MEDICINE	93.000	WFUHS 33000	HHSN268201100027C	76
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.000	CUCSF 107521	N01-AI-15416	0
UNIVERSITY OF SOUTH FLORIDA	93.000	UFLRDA CU09-4618		-22,086
				5,022,035

Civil Rights and Privacy Rule Compliance Activities

INFOSCITEX CORPORATION	93.001	INFOSCITE 1287-S1	1 R41 NR010753-01	929
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The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
				929
Other NIH				
UNIVERSITY OF SOUTH DAKOTA SCHOOL OF MEDICINE	93.100	SDHRF-2007-03	P20 MD001631-05	686
				686
Environmental Health				
HENRY FORD HEALTH SYSTEM	93.113	HFHS CU08-7296	5 R01 ES111126-09	319,064
UNIVERSITY OF CALIFORNIA, BERKELEY	93.113	UCB 00007172	3 P01 ES009605-11S1	68,435
PUBLIC HEALTH INSTITUTE	93.113	PHI 1016517R	1 U01 ES019471-01	33,635
UNIVERSITY OF MICHIGAN	93.113	UMICHG 3001266731	1 R01 ES017022-01	1,380
				422,514
National Cancer Institute				
PUBLIC HEALTH INSTITUTE	93.115	PHI 1011778	R01 ES013736	32,173
				32,173
Oral Diseases and Disorders Research				
NEW YORK UNIVERSITY	93.121	NYU F6788-01	1 R21 DE021187-01	47,215
				47,215
NIEHS Superfund Hazardous Substances_Basic Research and Education				
HARVARD UNIVERSITY	93.143	HARVARD 23515.112096	1 P42 ES016454-01A2	93,290
HARVARD UNIVERSITY	93.143	HARVARD 23515.112096	5 P42 ES016454-02	8,565
				101,855
Human Genome Research				
UNIVERSITY OF ROCHESTER	93.172	ROCHSTR PO 414899-G	5 R01 HG02449-03	31,187
HOSPITAL FOR SICK CHILDREN	93.172	HSC 3210515046	1 R03HG004314-01	28,708
				59,895
Research and Training in Complementary and Alternative Medicine				
CANADIAN MEMORIAL CHIROPRACTIC COLLEGE	93.213	CMCC #10802-03/04	1 R21 AT004059-01A1	16,864
MASSACHUSETTS GENERAL HOSPITAL	93.213	MGH CU09-3943	5 U01 AT000613	6,551
				23,415
Mental Health Research Grants				
JACKSON (HENRY M.) FNDN FOR THE ADVANCEMENT OF MILITARY MEDICIN	93.242	HJF 661110	U01 MH087981	544,850
DARTMOUTH COLLEGE	93.242	DARTC 666	5 P60 MH082598-04	349,242
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH 25055	1 P50 MH090966-01	329,505
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH CU09-4672	2 R01 MH036197-24A1	318,199
RESEARCH FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK	93.242	SUNYRF 44042	2 R01 MH064824-09	215,070
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 89613	R01 MH085150-01A1	189,959
SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.242	SSS BRS-IMPCT-Q-06-0	U01 AI068632	128,257

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EMORY UNIVERSITY	93.242	EMORYU S330261	5 P50 MH077928-04	113,811
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH 25038	2 R01 MH072833-04A2	112,701
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH 1008564/24989	R21 MH081081-01A1	106,926
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.242	BWH CU07-1567	5 R01 MH074679-05	105,188
SAN FRANCISCO STATE UNIVERSITY	93.242	SFSU S10-0008	1 R01 MH089276-01A1	89,143
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318V	5 P30 MH043520-22	87,341
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 24752	5 R01 MH79692-2	87,058
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 25032	1 R01 MH091844-01	86,900
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH CU09-4659	R01 MH085921-01A2	80,958
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318V	5 P30 MH043520-22	78,645
KAISER FOUNDATION RESEARCH INSTITUTE	93.242	KFDNI 115-9360-03-M3	1 R01 MH069819	73,923
UNIVERSITY OF MICHIGAN	93.242	UMICHG 3001392918	5 R01 MH080015-03	73,211
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU24797	5 R21 MH082331-02	71,163
UNIVERSITY OF MASSACHUSETTS, WORCESTER	93.242	UMASS 6116829/RFS900	R34MH085881-01A1	67,663
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318W	5 P30 MH043520-23	64,643
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318W	5 P30 MH043520-23	54,421
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318W	5 P30 MH043520-23	53,531
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU10-0876	1 R01 MH85969-01A2	45,004
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1709C	5 R01 MH083557-02	42,323
UNIVERSITY OF PENNSYLVANIA	93.242	UPENN 5-47107-D	1 R01 MH06068-01A1	42,154
SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.242	CSCLSC CU01-2838	5 U01 AI068632-03	41,309
NEW YORK UNIVERSITY	93.242	NYU 07-0925	5 R01 MH059114-09	40,945
EMORY UNIVERSITY	93.242	EMORYU S330261	P50 MH077928-03	40,794
NATHAN S. KLINE INSTITUTE FOR PSYCH RESEARCH	93.242	SRFMH 25017	P20MH078188	36,923
NEW YORK UNIVERSITY MEDICAL CENTER	93.242	NYU 08-1248	5 R01 MH067229-07	35,657
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1698C	1 R01 MH082052-01A1	34,060
UNIVERSITY OF SOUTH CAROLINA	93.242	USOC 11-1853	1 RO1 MH081941-01A2	30,450
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.242	BWH CU08-8034	5 P30 MH082679-04	28,362
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 24586	5 R21 MH082395-02	27,407
SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.242	BRS-IMPCT-Q-06-00107	U01 AI068632-01	25,643
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1711C	1 R01 MH083795-01A1	24,666
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1643E	5 R01 MH071456-05	22,121
NEW YORK ACADEMY OF MEDICINE	93.242	NYAMED CU10-1401	1 R01 MH085131-01A2	21,363
NEW YORK ACADEMY OF MEDICINE	93.242	NYAMED CU11-0015	5 R01 MH085132-02	19,466
UNIVERSITY OF MICHIGAN	93.242	UMICHG 3000971404	5 R01 MH075023-03	19,075
RUTGERS UNIVERSITY	93.242	RUTGER 4099	1 R01 MH087481-01A1	18,588
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU09-1817	2 R01 MH069133-06A1	17,551

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NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1691B	5 R01 MH079078-01A2	16,342
YALE UNIVERSITY	93.242	YU A08041 (M11A10838	1 R34 MH087216-01A2	15,531
NEW YORK UNIVERSITY MEDICAL CENTER	93.242	NYUMC 08-1159	1 R01 MH081881-01A2	12,275
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318W	5 P30 MH043520-23	11,741
UNIVERSITY OF COLORADO	93.242	UCOL 1547593	7 R21 MH082308-03	6,913
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.242	BWH CU08-8034	5 P50 MH082679-03	4,844
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-9228	5 R01 MH082736	3,865
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1004344-9-2372	5 R01 MH060884-06	718
EMORY UNIVERSITY	93.242	EMORYU S360625	5 R01 MH056897-13	313
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1004344-9-2372 SC1	5 R01 MH060884-06	92
UNIVERSITY OF PENNSYLVANIA	93.242	UPENN 5-47107-D	1 R01 MH06068-01A1	-608
MEDICAL UNIVERITY OF SOUTH CAROLINA	93.242	MUSC CU07-1662	R01 MH069887	-1,184
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.242	UTSWMC GMO-000025	5 N01 MH90003-03	-7,618
JACKSON (HENRY M.) FNDN FOR THE ADVANCEMENT OF MILITARY MEDICIN	93.242	HJF 661110	1 U01 MH087981-01	-57,529
				4,101,864

Alcohol Research Programs

NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.273	SRFMH 89510	HHSN 275 2009 00019C	184,437
NEW YORK UNIVERSITY	93.273	NYU F6502-01	1 R01 AA017672-01A1	122,314
WAYNE STATE UNIVERSITY	93.273	WSU10058	R01 AA016781-03	20,956
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.273	SRFMH 903-1713C	5 U01 AA018111-03	14,643
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.273	SRFMH 903-1707B	5 R21 AA018075-02	7,923
OREGON HEALTH SCIENCES UNIVERSITY	93.273	GBNEU0169BJ	5 U01 AA013641-08	-147
				350,126

Drug Abuse and Addiction Research Programs

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.279	UCSF 555843-29279	5 P01 DA010154	256,973
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 25063	R01 DA031022-01	256,063
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.279	UNC-CH 5-30563	7 R01 DA025198-03	160,321
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH-24388	1 R01 DA021319-01A1	155,067
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 1006601-2-2439	1 R01 DA020656-01A2	135,094
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.279	09020215	2 R01 DA015170-06A1	119,553
VANDERBILT UNIVERSITY MEDICAL CENTER	93.279	VUMC 32868	R01 DA013975	111,584
NATIONAL DEVELOPMENT AND RESEARCH INSTITUTES, INC.	93.279	NDRI 081	5 R01 DA01336-02	89,929
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.279	RFCUNY 41659-A	7R01DA023641-02	66,467
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH CU09-1603	1 R01 DA024029-01A1	61,332
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 903-1431R	5 P50 DA009236-18	48,788
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.279	CU09-0509	5 P01 DA012408-11	48,472
NEW YORK ACADEMY OF MEDICINE	93.279	NYAMED 1	5 R01 DA022144-04	43,862

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NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 1006611-3-2439	5 R01 DA023733-03	41,854
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 903-1545H	2 U10 DA013035-06	41,794
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	RFMH #1008868-9-2505	U10 DA013035-09	37,865
UNIVERSITY OF COLORADO	93.279	UCOL 1547563	7 R01-DA027794-03	34,954
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	RFMH CU10-2743	1 R01 DA02961801A1	17,443
NATIONAL DEVELOPMENT AND RESEARCH INSTITUTES, INC.	93.279	NDRI 081	R01 DA01336	15,736
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 903-1545H	5 U10 DA013035-08	15,162
NEW YORK ACADEMY OF MEDICINE	93.279	NYAMED 1	5 R01 DA022144-04	12,798
NEW YORK ACADEMY OF MEDICINE	93.279	NYAMED CU08-7922	5 R01 DA022123-03	9,653
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.279	10111786-01	P01 DA012408-12	7,126
DUKE UNIVERSITY	93.279	DUKEU 203-0608	4 R33 DA027503-02	316
UNIVERSITY OF MICHIGAN	93.279	UMICHG 3001233245	DA021416	-36,454
				1,751,752
Mental Health Research Career/Scientist Development Awards				
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.281	RFCUNY 41630-00-05	K23 MH075006-03	44,836
				44,836
Mental Health National Research Service Awards for Research Training				
BARNARD COLLEGE	93.282	BARNARD CU09-2857	R01 MH06873-01A1	240,630
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.282	UOFNC CU08-4478	5 N01 MH90001	-205,651
				34,979
Discovery and Applied Research for Technological Innovations to Improve Human Health				
TUFTS UNIVERSITY SCHOOL OF MEDICINE	93.286	TUSM CU08-0194	5P41EB002520-40	517,926
NEW YORK UNIVERSITY MEDICAL CENTER	93.286	NYUMC SPA #07-1045	2 R01 EB001015-13A2	48,778
RIVERSIDE RESEARCH INSTITUTE	93.286	RRI 011422	5 R01 EB006372-03	44,096
RIVERSIDE RESEARCH INSTITUTE	93.286	RRI 011200	5 R01 EB008606	43,493
VANDERBILT UNIVERSITY	93.286	VANDER 22094-S1	NIH 7R21EB007779-04	36,907
CAMBRIDGE RESEARCH & INSTRUMENTATION, INC	93.286	CRI-INC CU09-2075	1 R43 EB008627-01	1,587
				692,787
Minority Health and Health Disparities Research				
JOHN JAY COLLEGE OF CRIMINAL JUSTICE	93.307	JJCCJ 41773-A	1 P20 MD006118-01	39,513
				39,513
Trans-NIH Research Support				
MOUNT SINAI SCHOOL OF MEDICINE	93.310	MSSM 0255-3751-4609	1R01DK087650-01	475,603
				475,603
Nursing Research				
DREXEL UNIVERSITY	93.361	DREXEL 232464	5 P01 GM056550-15	68,892
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.361	UCSF 6572SC	1 R01 NR012003-01	41,831

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KENT STATE UNIVERSITY	93.361	KENT 443168-CU	1 R21 NR01700	36,643
UNIVERSITY OF COLORADO	93.361	UCOL FY08.221.004	5 R01 NR010492-03	20,137
JOHNS HOPKINS UNIVERSITY	93.361	JH 2001124566	1 R03 NR012558-01	8,288
DREXEL UNIVERSITY	93.361	DREXEL 232358	5 P01 GM56550-14	3,842
				179,633
National Center for Research Resources				
BIOSCAN, INC.	93.389	BIOSCAN CU11-0090	1 R44 RR030701-01	32,673
				32,673
Cancer Cause and Prevention Research				
NEW YORK UNIVERSITY MEDICAL CENTER	93.393	NYUMC 09-0093	1 R01 CA146940-01A1	312,300
UNIVERSITY OF CHICAGO	93.393	UCHICA 35704 S1	7 R01 CA107431-03	244,975
UNIVERSITY OF CHICAGO	93.393	UCHICA 44706-E S1	R01 CA107431	92,854
UNIVERSITY OF TEXAS M.D. ANDERSON	93.393	UTMDA CU34134/983105	1 R01 CA139020-01	70,649
MOUNT SINAI SCHOOL OF MEDICINE	93.393	MSSM 0255-1051-4609	5 R01 CA109753-05	61,841
CHILDRENS HOSPITAL & RESEARCH CENTER AT OAKLAND	93.393	CHRCO 12.8256.C 02	7 R01 CA109584-05	59,849
LOMA LINDA UNIVERSITY	93.393	LLU CU09-1203	1 R21 CA143642-01A1	55,761
MOUNT SINAI SCHOOL OF MEDICINE	93.393	MSSM 0255-1051-4609	5 R01 CA109753-05	54,525
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.393	09050669	1 R21 CA133260-01A1	30,922
BOOZ ALLEN HAMILTON INCORPORATED	93.393	BAHI 94144NB23 SC2	GS-35F-0306J	18,094
UNIVERSITY OF CHICAGO	93.393	UCHICA 35704 S2	7 R01 CA107431-03	10,590
UNIVERSITY OF CHICAGO	93.393	UCHICA 35704	7 R01 CA107431-03	9,082
MASSACHUSETTS GENERAL HOSPITAL	93.393	MGH 217153	1 U01 CA152926-01	5,838
MEMORIAL SLOAN-KETTERING CANCER CENTER	93.393	MSKCC BD513579	5 U01 CA115953-04	3,500
QUEENSLAND INSTITUTE OF MEDICAL RESEARCH	93.393	QIMR CU08-4906	5 R01 CA100352-03	-150
				1,030,630
Cancer Detection and Diagnosis Research				
THE MAYO CLINIC -- JACKSONVILLE	93.394	MAORO CU09-3932	1 R01 CA152045-01A1	35,501
YALE UNIVERSITY	93.394	YU A07674	1 R01 CA132931-01A2	3,140
				38,641
Cancer Treatment Research				
DANA FARBER CANCER INSTITUTE	93.395	DFCI 1057410	5 P01 CA092625-10	422,461
GEORGETOWN UNIVERSITY	93.395	RX 4400-208-CU	1 R01 CA124924-01	215,709
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.395	SRFMH 1008207-1-2487		56,322
UNIVERSITY OF MICHIGAN	93.395	SWOG CU09-3420	U10CA32102	55,321
UNIVERSITY OF MASSACHUSETTS, WORCESTER	93.395	UMASS 6088143/RFS800	5 R01 CA107295-03	45,170
DUKE CLINICAL RESEARCH INSTITUTE	93.395	CDUKE ACOSOG 458-01	U10 CA76001	32,067
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 19523	U10 CA098543-08	29,503

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF #20164	U01 CA97452-09	27,851
MEMORIAL SLOAN-KETTERING CANCER CENTER	93.395	SKI BD512977	2 P01 CA 047179-17	27,436
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 20349	5 U01 CA97452-09	27,060
UNIVERSITY OF MICHIGAN	93.395	UMICHG 210CA32102-31	U10CA32102-31	19,655
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 19812	CA98543-08	14,753
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF #19870	5 U01 CA098543-08	14,750
UNIVERSITY OF TEXAS M.D. ANDERSON	93.395	UTEXAS 25951	N01-CN-035159	8,323
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 18501	5U10 CA098543	7,599
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 97452-1030	U 01 CA097452-06	7,420
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 19091	U01 CA97452-08	2,045
RADIATION THERAPY ONCOLOGY GROUP	93.395	RTOG CU09-4498	U10 CA021661	9
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 1728	2 U10 CA098543-06	2
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 12769	U10 CA98543-05	-3
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.395	CU07-1689	5 R01 CA126060-02	-68
DANA FARBER CANCER INSTITUTE	93.395	DFCI CU08-4779	5 P01 CA092625-09	-9,599
				1,003,786

Cancer Biology Research

MOUNT SINAI SCHOOL OF MEDICINE	93.396	MSSM 0254-3111-4609	2 P01 CA080058-11	335,217
VANDERBILT UNIVERSITY MEDICAL CENTER	93.396	VANDER VUMC35899	1 R01 CA141307	126,036
UNIVERSITY OF PENNSYLVANIA	93.396	U PENN 555923	5-U01-CA-143056-02	110,072
CASE WESTERN RESERVE UNIVERSITY	93.396	CWRU RES503641	R01-CA131341-01A1	90,716
UNIVERSITY OF PENNSYLVANIA	93.396	U PENN 553587	1 U01 CA-143056-01	90,395
UNIVERSITY OF TEXAS M.D. ANDERSON	93.396	UTMDA 18645/98025671	N01 CN035159-05	89,497
STANFORD UNIVERSITY	93.396	SU 26500050-38985	5 R01 CA130826-03	53,331
COLD SPRING HARBOR LABORATORY	93.396	CSHL 25603858	2 P01 CA013106-36	44,746
MEMORIAL SLOAN-KETTERING CANCER CENTER	93.396	MSKCC BD513349	5 R01 CA124380-03	42,193
INSTITUTE FOR FAMILY HEALTH	93.396	IFFAMH CU10-3387	N01-LM-6-3501/05-0864	16,200
SOUTHWEST ONCOLOGY GROUP	93.396	SWOG UCOPX4	5U10 CA-34729	-13,064
				985,339

Cancer Centers Support Grants

DANA FARBER CANCER INSTITUTE	93.397	DFCI 1082107	5 P50 CA090578-08	27,966
				27,966

Cancer Research Manpower

UNIVERSITY OF MICHIGAN	93.398	CCTRFST CU80045401 S SUP	NCI SWOG9921	98,227
UNIVERSITY OF MICHIGAN	93.398	CMICH CU01-2860	NCI SWOG9921	14,487
				112,714

Cancer Control

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
UNIVERSITY OF MICHIGAN	93.399	UMICHG F021097	7 U10CA037429-24	29,118
NATIONAL CHILDHOOD CANCER FOUNDATION	93.399	NCCF 20104	U10 CA095861-09	9,024
UNIVERSITY OF TEXAS HEALTH SCIENCE CNTR AT SAN ANTONIO	93.399	CUTHSCSA CU01-2766	5 U01 CA37429	-15,215
				22,927
Cardiovascular Diseases Research				
MASSACHUSETTS GENERAL HOSPITAL	93.837	MGH 213753		277,438
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.837	BWH 105963	1 R01 HL098433-01	264,457
UNIVERSITY OF MICHIGAN	93.837	UMICHG 3001509884	R01HL101161-01	186,961
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.837	UNC-CH N01-HC-65233	HHSN268200625233C	174,986
UMDNJ ROBERT WOOD JOHNSON MEDICAL SCHOOL	93.837	RWJMS CU01-2796	1 R01 HL083056-01A2	171,905
MASSACHUSETTS GENERAL HOSPITAL	93.837	MGH 215106	R01 HL076398-05	116,841
REGENTS OF THE UNIVERSITY OF MINNESOTA	93.837	UMINN P001435601	1 R01 HL098382-01A1	82,817
NEW ENGLAND RESEARCH INSTITUTES	93.837	NERI CU01-2786	5 U01 HL68270	73,151
VANDERBILT UNIVERSITY MEDICAL CENTER	93.837	VU 33812	5 R01 HL068880-09	62,894
UNIVERSITY OF VIRGINIA	93.837	UV GC11707-133834	5 R01 H2085160-2	60,947
BETH ISRAEL DEACONESS MEDICAL CENTER	93.837	BIDMC CU09-2370	1 R01 HL102361-01	60,589
UNIVERSITY OF MICHIGAN	93.837	UMICHG CU09-4639	R01 HL101161-01	59,225
WAKEFOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MEDICINE	93.837	WUBGSM 14061	1 R01 HL101250	56,362
UNIVERSITY OF VIRGINIA	93.837	UV GC11707-133834 MED	5 R01 H2085160-2	51,234
UNIVERSITY OF CALIFORNIA, DAVIS	93.837	UCD 200911610-01-CU	7R01HL085592-04	49,978
NEW YORK UNIVERSITY MEDICAL CENTER	93.837	NYUMC SPA#07-0929	1 R01 HL092439-01	48,096
NEW YORK UNIVERSITY MEDICAL CENTER	93.837	NYU CU10-2837	NIH	37,948
MOUNT SINAI SCHOOL OF MEDICINE	93.837	MSSM CU01-2760 SC2	7 U01 HL088942-01	31,656
NEW ENGLAND RESEARCH INSTITUTES	93.837	NERI CU01-2830 FFS	U01 HL68270	21,307
KENT STATE UNIVERSITY	93.837	KENT 443159-CU	R01 HL089311	17,500
UNIVERSITY OF MICHIGAN	93.837	UMICHG 3001599228	U01 HL094345	12,912
VANDERBILT UNIVERSITY MEDICAL CENTER	93.837	VU 33812	5 R01 HL068880-08	11,167
NEW ENGLAND RESEARCH INSTITUTES	93.837	NERI 01-2830 SII SII	U01 HL68270	9,037
UNIVERSITY OF MICHIGAN	93.837	UMICHG 3001599228	U01 HL094345	8,737
MOUNT SINAI SCHOOL OF MEDICINE	93.837	MSSM CU01-2760 SEV SEV	7 U01 HL088942-01	8,317
MOUNT SINAI SCHOOL OF MEDICINE	93.837	MSSM CU01-2760 VAL	7 U01 HL088942-01	7,750
NEW ENGLAND RESEARCH INSTITUTES	93.837	NERI CU10-3112	U01 HL68270	3,422
MOUNT SINAI SCHOOL OF MEDICINE	93.837	MSSM CU01-2760	7 U01 HL088942-01	2,053
UNIVERSITY OF MIAMI	93.837	UMIAMI M137470	R01 HL53392	1,884
MOUNT SINAI SCHOOL OF MEDICINE	93.837	MSSM CO01-2760 SC3	7 U01 HL088942-01	1,677
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.837	UCSD 10253578-001	5 R01 HL064382-07	1,064
NEW ENGLAND RESEARCH INSTITUTES	93.837	NERI 01-2830 SVR SVR	U01 HL68270	800

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
YALE UNIVERSITY	93.837	YU A06950 (M10A10400	5 R01 HL084438-03	645
UNIVERSITY OF MICHIGAN	93.837	UMICHG 3001212528	U01 HL094345	151
				1,975,908
Lung Diseases Research				
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.838	BWH CU01-2925	5 U01 HL074227-05	207,363
NATIONAL JEWISH HEALTH	93.838	NJMRCES CU08-7792	1 U01 HL089897-01	97,718
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN 548849	1 R01 HL0871150-A1	94,179
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN 551385-01	7R01 HL082895-04	78,201
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.838	BWH 103848	5 R01 HL093076-03	66,229
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN CU08-5343	1 R01 HL-081619-01A2	50,526
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN 548849	5 R01 HL087115-03	38,102
NEW YORK UNIVERSITY MEDICAL CENTER	93.838	NYUMC CU08-0274	5 R01 HL089493-02	28,507
WASHINGTON UNIVERSITY, ST. LOUIS	93.838	WU-08-268-2906080A	5 R01 HL076488-04	-49
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN 548849	5 R01 HL087115-02	-979
				659,797
Blood Diseases and Resources Research				
CORNELL UNIVERSITY	93.839	CU #58266-9225	R01 HL097971	106,718
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	93.839	STCRH 111512010-7369	R01 HL095647-02	24,109
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	93.839	STCHR 111270050-7348	3 U01 HL078787-05S1	18,071
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	93.839	STCRH 111270050-7348	5 U01 HL078787-05	6,402
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	93.839	STCRH 111512010-73	R01 HL095647	2,227
				157,527
Arthritis, Musculoskeletal and Skin Diseases Research				
REGENTS OF THE UNIVERSITY OF MINNESOTA	93.846	UMINN H001090001	7 R01 AR052713-04	47,794
UNIVERSITY OF PENNSYLVANIA	93.846	UPENN 549028	1 R01 AR055647	24,089
MCGILL UNIVERSITY	93.846	MCGILL 211480	5 R01 AR053287-04	15,363
DUKE CLINICAL RESEARCH INSTITUTE	93.846	CDUKE CU01-2891	1 N01 AR-2-2265	12,742
UNIVERSITY OF PENNSYLVANIA	93.846	UPENN #545295	5 R01 AR053156-03	9,718
HOSPITAL FOR SPECIAL SURGERY - CORNELL MEDICAL CENTER	93.846	HSS CU10-1062	5 R01 AR049772-08	97
				109,803
Diabetes, Digestive, and Kidney Diseases Extramural Research				
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 23438-9-CCLS2057	U01 DK061230-09	801,213
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.847	UAB 000328755-001	1 R01 DK082753-01	344,154
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 23438-9-CCLS2057	U01 DK061230	194,935
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.847	SLRHC CU10-0587	5 P30 DK26687-30	126,037
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.847	SLRCH CU10-0551	5 P30 DK26687-30	125,318
VANDERBILT UNIVERSITY MEDICAL CENTER	93.847	VUMC 37460	U01 DK089523-01	122,596

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UNIVERSITY OF FLORIDA	93.847	UF 10086	4 R37 DK049108-16	122,450
VANDERBILT UNIVERSITY MEDICAL CENTER	93.847	VUMC 36021	UO1 DK074273	114,921
CHILDREN'S HOSPITAL MEDICAL CENTER, OHIO	93.847	CHMCO 101650	U01 DK070219	86,119
MOUNT SINAI SCHOOL OF MEDICINE	93.847	MSSM 0255-3792-4609	5 U01 DK085688-02	77,616
BAYLOR COLLEGE OF MEDICINE-HOUSTON	93.847	BCMH 101441566	7 P01 DK056492-12	66,104
ST. LUKE'S-ROOSEVELT INSTITUTE FOR HEALTH SCIENCES	93.847	SLRHC CU09-1697	5U01 DK048404-07	46,111
JOSLIN DIABETES CENTER	93.847	JDBCTR CU01-2805	5 U01 DK074556-03	44,426
UNIVERSITY OF PENNSYLVANIA	93.847	UPENN 555640	1 U01 DK089540-01	39,906
MOUNT SINAI SCHOOL OF MEDICINE	93.847	MSSM 0255-3421-4609	2 R01 DK067555-06	38,536
UNIVERSITY OF PITTSBURGH	93.847	UPITT 0016269	7 U01 DK072146-05	24,063
JOSLIN DIABETES CENTER	93.847	JDBCTR CU01-2862	1 U01 DK074556-01	21,865
BAYLOR COLLEGE OF MEDICINE-HOUSTON	93.847	BCMH 101440535	7P01-DK056492-12	21,485
ST. LUKE'S-ROOSEVELT INSTITUTE FOR HEALTH SCIENCES	93.847	SLRIHS CU09-4233	5 R01 DK067561-04	17,609
NORTHWESTERN UNIVERSITY	93.847	NWU CU10-0911	R56 DK090129	6,749
UNIVERSITY OF CALIFORNIA, IRVINE	93.847	UCSF 2009-2266	DK081645	6,434
GEORGE WASHINGTON UNIVERSITY	93.847	GWU T2K050605-D22-04	5 U01 DK061230-07	5,146
ST. LUKE'S-ROOSEVELT INSTITUTE FOR HEALTH SCIENCES	93.847	SLRIHS CU09-4233	2 R01 DK067561-03A1	3,397
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 23438-8-CCLS2048 STP	5 U01 DK061230-08	3,154
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.847	UAB 000328755-001	5 R01DK082753-02	2,211
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 23438-8-CCLS2048 STP	U01 DK061230	2,103
VANDERBILT UNIVERSITY MEDICAL CENTER	93.847	VUMC 35150	UO1 DK074273	-2
JOSLIN DIABETES CENTER	93.847	JDBCTR 801978-01	1 U01 DK074556-01	-355
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.847	UAB 001	1R01DK082753-01	-19,666
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 23438-8-CCLS2048	5 U01 DK061230-08	-268,828
				2,175,807
Nat. Inst. of Diabetes & Digestive & Kidney Diseases				
JOHNS HOPKINS UNIVERSITY	93.848	CJHPKN PO#2000010317	5 U01 DK067767-05	25,558
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.848	RFMH CU08-7508	1 R21 DK074503-01A1	5,863
NEW YORK UNIVERSITY	93.848	NYU CU00-0726	5 R01 DK069373-03	-2
				31,419
Nat. Inst. of Diabetes & Digestive & Kidney Diseases				
MOUNT SINAI SCHOOL OF MEDICINE	93.849	MSSM 0254-6000-4609 SC1	5 P01 DK056492-10	-159
				-159
Extramural Research Programs in the Neurosciences and Neurological Disorders				
UNIVERSITY OF MIAMI	93.853	UMIAM 66674A	5 R37 NS029993-18	925,647
UNIVERSITY OF WISCONSIN	93.853	UWIS 238K276		318,480
MONTEFIORE MEDICAL CENTER	93.853	MMC CU08-4400	5 R01 NS043209-08	259,695

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UNIVERSITY OF MIAMI	93.853	UMIAMI 66674A	5 R37 NS029993-18	239,889
JOHNS HOPKINS UNIVERSITY	93.853	JH 2001246584	5 R01 NS052804-04	191,679
UNIVERSITY OF CINCINNATI	93.853	UCINCM CU09-2753	1 U01 NS069763-01	179,506
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.853	UCSF 5776SC	R01 NS062820-01	164,829
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.853	MIT 5710002928		162,292
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.853	UCSF 4799SC	5 U01NS053998	87,972
UNIVERSITY OF PITTSBURGH	93.853	UPITT 0005174	5 R01NS050256-02	85,449
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.853	CU01-2901	U01 NS50324	73,480
NORTHWESTERN UNIVERSITY	93.853	NWU 60027791 CU	P50 NS047085	69,042
UNIVERSITY OF SOUTHERN CALIFORNIA	93.853	USC H46395	1 U19 CA148537-01	45,832
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.853	MIT 5710002499	5 P01 NS055923-04	40,252
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.853	NYPH CU08-8065	5 U10 NS059062	35,889
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.853	UCSF 5776SC	R01 NS062820-01A2	33,427
UNIVERSITY OF IOWA	93.853	UIO CU08-4421	5 R01 NS40068-04	33,100
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.853	CUNCCH CU01-2895	5 U01 NS042167	29,236
NORTHERN ILLINOIS UNIVERSITY	93.853	NIU CU08-4486	2 R37NS031146-15A1	25,823
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.853	PH CU01-2870	SC1 U10NS05906201	18,335
UNIVERSITY OF ILLINOIS, BOARD OF TRUSTEES	93.853	UIL 2007-06602	R01 NS059745	17,495
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.853	09081041	1 R01 NS062055-01A1	16,032
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	93.853	UMDNJ-99-705	3 R01 NS038384-05S1	11,878
BETH ISRAEL DEACONESS MEDICAL CENTER	93.853	BIDMC CU01-2836	5 R01 NS039466-03	10,270
MASSACHUSETTS GENERAL HOSPITAL	93.853	MGH CU01-2934	5 R01 NS052592-03	9,266
UNIVERSITY OF ROCHESTER	93.853	ROCHSTR PO#415045-G	5 R01 NS045686-05	8,252
UNIVERSITY OF BRITISH COLUMBIA (CANADA)	93.853	UBC F09-04884	U01 NS038529	7,942
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.853	RFCUNY 41589-00-02 B	1 R01 NS054864-01A	7,844
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.853	NYPH CU08-8065	U10 NS059062	7,386
MASSACHUSETTS GENERAL HOSPITAL	93.853	MGH CU09-3945	5 U01 NS049640-05	7,365
JOHNS HOPKINS UNIVERSITY	93.853	JHU 2000743955	U01 NS062851-01A1	5,957
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.853	PH CU01-2870 SC2	SC2 U10NS05906201	5,313
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.853	SRFMH CU09-1121	P01 NS048447	4,951
REGENTS OF THE UNIVERSITY OF MINNESOTA	93.853	UMINN N000936904	U01 NS062091-01A2	4,025
UNIVERSITY OF TEXAS HEALTH SCIENCE CNTR AT SAN ANTONIO	93.853	UTHSCSA 126155-24	2 U01 NS0385239-09A1	2,358
EMORY UNIVERSITY	93.853	EMORYU S359538	7 R01 NS038455-10	2,181
UNIVERSITY OF ROCHESTER	93.853	CUR PO#414257-G	5 U01 NS050095-05	1,783
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.853	PH CU810175-01	U10NS05906201	1,672
MONTEFIORE MEDICAL CENTER	93.853	MMC CU08-4400	5 R01 NS043209-17	195
UNIVERSITY OF WISCONSIN	93.853	UWIS 238K276	5 P01 NS042803	147

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ST. LUKE'S-ROOSEVELT INSTITUTE FOR HEALTH SCIENCES	93.853	SLRIHS CU10-1848	5 P01 NS031492-15	-527
MASSACHUSETTS GENERAL HOSPITAL	93.853	MGH CU09-4464	P50 NS051343-04	-2,702
HARVARD MEDICAL SCHOOL	93.853	MGH CU09-4466	P50 NS051343-04	-5,191
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.853	NYPH CU08-8065	5 U10 NS059062-02	-11,665
MOUNT SINAI SCHOOL OF MEDICINE	93.853	MSSM SITE#212 #69244	U01 NS45719	-12,512
MEDICAL UNIVERSITY OF SOUTH CAROLINA	93.853	MUSC08-066	1 U01 NS058728-02	-48,794
				3,070,775
Allergy, Immunology and Transplantation Research				
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000694520	U01 AI068614	782,232
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000694534	U01 AI068614	373,281
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.855	DVAMC CU00-0110	1U01 AI068641-01	245,094
UNIVERSITY OF PENNSYLVANIA	93.855	UPENN 554731	7 U19 AI083022-02	239,365
JOHNS HOPKINS UNIVERSITY	93.855	JH 2001003650	1 U01 AI083238-01A1	155,832
UNIVERSITY OF PENNSYLVANIA	93.855	UPENN 5550995	U01 AI063589-05	134,082
MASSACHUSETTS GENERAL HOSPITAL	93.855	MGH 215106	5 R01 AI067653-05	109,337
UNIVERSITY OF KWAZULU-NATAL	93.855	UKZN CU08-4879	5 U01 AI069469-04	107,263
THE UNIVERSITY OF ARIZONA	93.855	UA Y503198	R01 AI079030	99,220
MAGEE-WOMENS RESEARCH INSTITUTE	93.855	MWRI 4355	5 U01 AI068633-04	82,601
FAMILY HEALTH INTERNATIONAL	93.855	FHI 860	5 U01 AI46749-08	81,220
MAGEE-WOMENS RESEARCH INSTITUTE	93.855	MWRI 4341	5 U01 AI068633-05	74,482
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 203443	U01 AI068614	71,333
SOUTHWEST FOUNDATION FOR BIOMEDICAL RESEARCH	93.855	SWFBR 10-1112.008	5 R01 AI048071-10	70,261
UNIVERSITY OF PITTSBURGH	93.855	UPITT 0013076	U01 AI077867-03	64,994
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.855	UCSF ITN10196-00SC	NIAID N01-A1-15416	51,602
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000678532	U01 AI068614	51,181
MASSACHUSETTS GENERAL HOSPITAL	93.855	MGH 216887	5 T32 AI007529-13	40,280
NEW YORK UNIVERSITY MEDICAL CENTER	93.855	NYUMC 09-0726	2 R01AI055037-06A1	40,020
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.855	DVAMC CU00-0782	5 U01 AI068641-02	27,633
STARPHARMA PTY LTD	93.855	SPL CU09-4775	U19 AI060598	25,047
UNIVERSITY OF TEXAS HEALTH SCIENCE CNTR AT SAN ANTONIO	93.855	UTHSCSA 131739/13047	5 K23 AI081538	25,000
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000678534	U01 AI068614-04	24,737
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.855	UCSF 3855SC	U01 AI052748	21,286
UNIVERSITY OF KWAZULU-NATAL	93.855	UKZN CU08-4879	5 U01 AI069469-05	21,204
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000674466	U01 AI068614	18,936
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.855	UCSF 3855SC	U01 AI052748	13,124
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 203443	U01 AI068614	9,230
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000674466	5 U01 AI068614-05	3,092

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
MAGEE-WOMENS RESEARCH INSTITUTE	93.855	MWRI 4341	5 U01 AI068633-04	-57
MAGEE-WOMENS RESEARCH INSTITUTE	93.855	MWRI 4323	5 U01 AI068633-04	-79
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000674466	U01 AI068614-04	-309
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.855	UAB N01-AI-40036		-15,653
IMMUNE TOLERANCE NETWORK	93.855	ITN10220-00SC	1 N01-AI-15416	-23,610
				3,023,261
Microbiology and Infectious Diseases Research				
SANARIA INC	93.856	SANINC CU10-3109	2R44AI069631-03	187,038
SANARIA INC	93.856	SANINC CU10-3328	1 R43 AI091208-01	48,048
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.856	UCSF 105891	N01 AI15416	14,820
CHILDREN'S HOSPITAL MEDICAL CENTER, OHIO	93.856	CHMCO 104395	R01 AI073713-02	10,602
				260,508
Biomedical Research and Research Training				
RUTGERS UNIVERSITY	93.859	RUTGER CU09-4413 SC3	U54 GM074958	1,295,895
RUTGERS UNIVERSITY	93.859	RUTGER 4136	U54 GM074958	196,005
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU10-0056 SC5	GM095315-02	175,001
RUTGERS UNIVERSITY	93.859	RUTGER 4136	U54 GM074958	173,966
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU10-0056 SC3	GM095315-02	150,019
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU10-0056 SC	GM095315-02	149,994
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU10-0056 SC	GM095315-02	139,869
UNIVERSITY OF UTAH	93.859	UUTAH WEISS 10000082	1 R01GM083925-01A01	138,825
RUTGERS UNIVERSITY	93.859	RUTGER 4136 SC2	U54 GM074958	135,304
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	93.859	UMDNJ 6268-10-01	1R01GM087600-01	131,832
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.859	UPITT CU09-4536	NLM R01	122,016
UNIVERSITY OF CHICAGO	93.859	UCHICA 43359-5-31486	1 U54 GM087519	116,731
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	93.859	5 R01 GM062867-09		112,134
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU10-0056 SC2	GM095315-02	100,629
RUTGERS UNIVERSITY	93.859	RUTGER 4136 SC4	U54 GM074958	94,441
SCRIPPS RESEARCH INSTITUTE	93.859	SCRIPPS CU08-9480	5 R01 GM085659-03	80,946
RUTGERS UNIVERSITY	93.859	RUTGER 4136 SC1	U54 GM074958	80,000
UNIVERSITY OF ILLINOIS, BOARD OF TRUSTEES	93.859	UILCHI 2008-00992-01	1 R01GM081030-01A1	74,680
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.859	UNC-CH-5-30759	4R37GM047845-20	61,088
ROCKEFELLER UNIVERSITY	93.859	RFU CU08-4909	5 P01 GM073047-05	52,587
MOUNT SINAI SCHOOL OF MEDICINE	93.859	MSSM #0254-7753-4609	5 P50 GM071558-02	47,236
UNIVERSITY OF CHICAGO	93.859	43359-5-31486-8602	U54GM087519	40,840
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.859	UNC-CH 5-50082	5 R37 GM047845-17	32,334
HARVARD UNIVERSITY	93.859	HARVARD 23570-114041	5 U54 GM088558-02	31,183

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CHILDREN'S RESEARCH INSTITUTE AT CHILDREN'S NATIONAL MEDICAL CE	93.859	CNMC 0948-11-01	(NIGMS) 1R01 GM087600-01	30,106
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889 SC4	5 U54 GM075026-05	17,183
CALIFORNIA INSTITUTE OF TECHNOLOGY	93.859	CALTECH CU08-4505	1 R01 GM079771-01	11,381
RUTGERS UNIVERSITY	93.859	RUTGER 3819 SC2	U 54 GM074958-05	3,369
ROCKEFELLER UNIVERSITY	93.859	RFU CU08-4909	5 P01 GM073047-03	-6,361
RUTGERS UNIVERSITY	93.859	RUTGER 3819 SC6	U 54 GM074958-05	-28,696
RUTGERS UNIVERSITY	93.859	RUTGER 3819 SC3	U 54 GM074958-05	-28,813
				3,731,724
Nat. Inst. of Child Health & Human Dvlpt.				
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.864	USCF 4873SC	U54 HD0557642	38,324
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.864	USCF 4873SC	U54-HD055764	8,123
NEW YORK ACADEMY OF MEDICINE	93.864	NYAM CU10-2458	1R01HD059729-01A2	1,622
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.864	USCF 4873SC	U54-HD055764	-66
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.864	SRFMH 24382	5 R21 HD056170-02	-5,401
				42,602
Child Health and Human Development Extramural Research				
GEORGE WASHINGTON UNIVERSITY	93.865	GWU PJ#21050	U10 HD040485-09	785,219
CHILDREN'S HOSPITAL OF PITTSBURGH	93.865	CHPITT 0015374	5 U01 HD042444	352,806
KENNEDY KRIEGER INSTITUTE	93.865	KKINS CU10-2531	3P01HD035897-22A2	280,359
MOUNT SINAI SCHOOL OF MEDICINE	93.865	MSSM 0258-3251-4609	NICHD/HHSN27500503411C	255,759
KENNEDY KRIEGER INSTITUTE	93.865	KKINS CU09-3216	3 P01 HD035897-22A2	210,655
PRINCETON UNIVERSITY	93.865	PU 00001273	2 R01 HD036916	186,997
RESEARCH TRIANGLE INSTITUTE	93.865	RTI CU10-3538	1 U01 HD063047-01	148,128
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.865	UCSF CU10-0464	K12 HD000849	133,826
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.865	UAB 000249533-065	5 U01 HD040533-10	124,444
RESEARCH TRIANGLE INSTITUTE	93.865	RTI 1-312-0208944	U01 HD45954	119,050
UNIVERSITY OF UTAH	93.865	UUTAH 2408131-1	U01 HD050080	88,224
INDIANA UNIVERSITY	93.865	INDU IUPIU-4687916-C	5 U01 AI069911-04	65,418
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.865	RFMH 903-1428/MPSP6	5 R37 HD032774-11	65,377
RESEARCH TRIANGLE INSTITUTE	93.865	RTI 9-312-0210070	1 U01 GM070698-01	45,424
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.865	SRFMH 10054142/5/240	5 R01 HD046786-03	44,854
ACADEMY FOR EDUCATIONAL DEVELOPMENT	93.865	AED 4350-01-S-01	1 R01 HD061630-01A1	43,827
INDIANA UNIVERSITY	93.865	INDU IN-4685519-CU	5 U01 AI069911-05	42,593
KENNEDY KRIEGER INSTITUTE	93.865	KKINS CU10-2531	5P01HD035897-23	39,521
MOUNT SINAI SCHOOL OF MEDICINE	93.865	MSSM 0254-6000-4609 NAS	NICHD/HHSN27500503411C	37,987
NATIONAL DEVELOPMENT AND RESEARCH INSTITUTES, INC.	93.865	NDRI #620A	R21 HD061683	35,834
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.865	UTSWMC GMO-110404	1 R01 HD066219-01	33,417

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WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.865	10081221	5 R01 HD051912-03	32,733
MOUNT SINAI SCHOOL OF MEDICINE	93.865	MSSM 0258-3431-4609	HHSN267200700047C	27,812
TULANE UNIVERSITY	93.865	TUL-HSC-3222-10/11	U01 HD052104-06	23,905
KENNEDY KRIEGER INSTITUTE	93.865	KKINS 231.234E	3P01HD035897-22A2	22,832
UNIVERSITY OF CALIFORNIA, DAVIS	93.865	UCD 09-000148-06	R01 HD062417-01	21,834
DUKE UNIVERSITY	93.865	DUKEU CU 09-4467	R01 HD057956-01	21,464
NEW YORK UNIVERSITY	93.865	NYU 09-1253	5 R21 HD060524-02	19,901
WESTAT	93.865	WESTAT CU08-7567	N01-DK-8-001	16,553
MOUNT SINAI SCHOOL OF MEDICINE	93.865	MSSM 0258-3441-4609	NICHD-2004-07	15,185
RAND CORPORATION OF SANTA MONICA, CALIFORNIA	93.865	RANDSM 9920100079	R21HD061267	14,370
MOUNT SINAI SCHOOL OF MEDICINE	93.865	MSSM 0258-3251-4609 MAN	NICHD/HHSN27500503411C	12,871
OHIO STATE UNIVERSITY	93.865	OSU 60020655	1 R01 HD060586-01A1	11,735
KENNEDY KRIEGER INSTITUTE	93.865	KKINS CU10-2531	3P01HD035897-22A2	10,434
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.865	UAB 000388010-023	2 U01 HD040533-11	8,206
RESEARCH TRIANGLE INSTITUTE	93.865	RTI 2-312-0212512	U10 HD063036	3,596
KENNEDY KRIEGER INSTITUTE	93.865	KKINS CU10-2531 SC1	5P01HD035897-23	949
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.865	UCSF CU10-0464	K12 HD000849	905
TULANE UNIVERSITY	93.865	TUL-HSC-120-09/10	U01 HD052104-05	441
JOHNS HOPKINS UNIVERSITY	93.865	JH 2000364537	5 R01 HD057784-03	298
WESTAT	93.865	WESTAT CU50792016	N01-HD-3-3345	-1
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.865	UAB 065	5 U01 HD040533-09	-152
CHILDREN'S HOSPITAL OF PITTSBURGH	93.865	CHPITT 015374-115424	5 U01 HD042444	-1,145
				3,404,445

Aging Research

UNIVERSITY OF NORTH TEXAS HSC AT FORT WORTH	93.866	UTEHOUS 71115-2001-0	P01 AG027958-02	279,894
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT 57100022928 SC1		158,526
UNIVERSITY OF ILLINOIS, BOARD OF TRUSTEES	93.866	UILCI CU08-9499	5 U01 AG031294-03	116,408
YALE UNIVERSITY	93.866	YU NO. A06505	1 P01 AG028054-01	104,256
UNIVERSITY OF WISCONSIN	93.866	UWS X281816	5 RO1 AG029624-03	85,983
CYBERLOGIC, INC.	93.866	CYBER CU10-3342	9R44AG036879-04	70,439
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.866	SRFMH CU08-7756	2 R01 AG016381-06A2	69,189
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT 5710002149 SC1	5 P01 NS055923-04	67,671
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT 5710002149 SC2	5 P01 NS055923-04	58,516
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	UCSD CU08-3926	5 U01 AG 010483-20	53,655
UNIVERSITY OF WASHINGTON	93.866	UWASH 696998	5 U01 AG016976-12	42,609
WASHINGTON UNIVERSITY, ST. LOUIS	93.866	WASHU WU-10-110	5 U01 AG032438-02	35,389
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.866	09040570	5 P30 AG022845-07	33,163

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UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	UCSD ADNI-02401	U01 AG024904	20,604
UNIVERSITY OF MICHIGAN	93.866	UMICHG 3000818901	1 R01 AG029550-02	19,327
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT 5710002928 SC2		16,569
UNIVERSITY OF PENNSYLVANIA	93.866	UPENN 554369	5 U01 AG032984-02	15,731
JOHNS HOPKINS UNIVERSITY	93.866	JH 2000499372	5 P01 AG027735-05	11,970
MOUNT SINAI SCHOOL OF MEDICINE	93.866	MSSM CU08-4366	5 R01 AG015922-10	11,643
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.866	UCSF 4972SC	1 R01 AG027986-02	7,776
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	USSD CU08-3926	5 U01 AG10483	4,077
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.866	09040570-05	2 P30 AG022848-06	2,705
UNIVERSITY OF WASHINGTON	93.866	UWASH 655888	2 U01 AG016976-11	2,173
UNIVERSITY OF ILLINOIS, BOARD OF TRUSTEES	93.866	UILCHI CU08-9499	1 U01AG031294-01A1	1,654
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.866	10122150-03	5 P30 AG022845-07	850
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	CUCSD ADC 031 - IGIV IGV	5 U01 AG10483	19
JOHNS HOPKINS UNIVERSITY	93.866	JH 2000560362	1 U01 AG032947-01	8
UNIVERSITY OF NORTH TEXAS HSC AT FORT WORTH	93.866	UTEHOUS 7115-2007-00	1 P01 AG027956-01A1	-2,799
				1,288,005

Vision Research

UNIVERSITY OF UTAH	93.867	UU 100015453-03	7 R24EY017404-04	453,596
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 10-01737 HN1	7PN2EY016586-06	315,789
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 10-01737	7PN2EY016586-06	254,280
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 10-01737 KM1	7PN2EY016586-06	243,966
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYCMC 09-1676 HON	7PN2EY016586-06	230,149
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 10-01737 WD1	7PN2EY016586-06	223,127
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 10-01737 WG1	7PN2EY016586-06	195,299
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 09-1676 KAM	7PN2EY016586-06	182,498
UNIVERSITY OF UTAH	93.867	UUTAH 10015453-04	7 R24 EY017404-04	122,795
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 09-1676	7PN2EY016586-06	111,066
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 09-1676 WIN	7PN2EY016586-06	86,384
THE SALK INSTITUTE FOR BIOLOGICAL STUDIES	93.867	SALK PO #611377	1 R01 EY018003	66,577
NEW YORK UNIVERSITY MEDICAL CENTER	93.867	NYUMC 09-1676 WIG	7PN2EY016586-06	31,900
UNIVERSITY OF ROCHESTER	93.867	ROCHSTR 414588-G	2 R01 EY004367-24	5,623
EMMES CORPORATION	93.867	EMMES CU08-7911 SC1	HHS-N-260-2007-00001 C	1,037
				2,524,086

Nat. Inst. on Alcohol Abuse & Alcoholism

YALE UNIVERSITY	93.891	YU A07902 M07A00249	5 P50 AA012870-10	174,571
YALE UNIVERSITY	93.891	YU A07570 M07A00249	P50 AA012870-09	5,457
				180,028

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National Institutes of Health Acquired Immunodeficiency Syndrome Research Loan Repayment Program				
FAMILY HEALTH INTERNATIONAL	93.936	FHI 822/0080.0067	U01 AI068619	60,923
FAMILY HEALTH INTERNATIONAL	93.936	FHI 882/0080.0039	U01 AI068619	28,051
FAMILY HEALTH INTERNATIONAL	93.936	FHI 0080-0025	U01 AI068619	21,960
				110,934
International Research and Research Training				
UNIVERSITY OF CHICAGO	93.989	UCHICA 32299	5 R01 D43 TW06221	18,045
VANDERBILT UNIVERSITY MEDICAL CENTER	93.989	VU 35587	5 R24 TW007988-04	11,262
				29,307
Total Pass-through Programs:				39,412,263
Total: National Institute of Health				372,324,978

National Science Foundation

Direct Awards

Engineering Grants

UNDERSTANDING CHEMICAL COMPLEXITY AND DIVERSITY THROUGH COLLABORATION	47.041	CHE-0717518		266,700
COLLABORATIVE RESEARCH: JOINT UFL/CU /UCR CENTER FOR PARTICULATE AND SURFACTANT SYSTEMS	47.041	IIP-0749461		235,531
ACQUISITION OF A PROTEOMICS ANALYZER TO ELUCIDATE PETROLEUM HYDROCARBON BIODEGRADATION PATHWAYS OF PETROLEUM HYDROCARBON	47.041	CBET-1057414		200,000
COLLABORATIVE RESEARCH: CDI-TYPE II: CYBER-ENABLED DESIGN OF FUNCTIONAL NANOMATERIALS	47.041	CBET-1028299		194,692
INTERACTIVE UBIQUITOUS VISUALIZATION OF CONSTRUCTION PROGRESS MONITORING WITH D4AR (4DIMENSIONAL AUGMENTED REALITY) MODE	47.041	CMMI-1063559		157,732
AND APPLICATIONS	47.041	ECCS-0747787		155,183
SENSING IN LIVING CELLS: EXPRESSABLE RNA-BASE FRET PROBES	47.041	NSF CBET-033288		147,131
CAREER: ELECTRONIC AND MECHANICAL PROPERTIES OF SINGLE METAL-MOLECULE-METAL JUNCTIONS	47.041	CHE-07-44185		126,670
CAREER: ENERGY IN SUSTAINABLE INFRASTRUCTURE-MULTI-SCALE/PHYSICAL APPROACH TO A NOVEL HYBRID SOLAR ROOFING PANEL	47.041	CMMI 0954717		124,408
INTERCULTURAL KNOWLEDGE SYSTEM DYNAMICS IN COMPLEX SERVICES OUTSOURCING	47.041	SES-07-29253		115,172
SOFT 3D MEMS: ADVANCED BIOMATERIALS DEVICES	47.041	ECCS-0747747		107,516
COLLABORATIVE RESEARCH: BLAST RESISTANCE OF POLYUREA-STEEL COMPOSITE STRUCTURES FOR INFRASTRUCTURE PROTECTION	47.041	CMMI-0856161		103,010
EXPERIMENTAL CHARACTERIZATION OF GOLD SINGLE CRYSTALS AND BICRYSTALS AT THE NANOSCALE WITH EMPHASIS	47.041	DMR-07-06058		99,167
ACCELERATED DEGRADATION OF ACTIVE NANOSYSTEMS BY BIOMOLECULAR MOTORS	47.041	CMMI-0926790		97,448
CAREER: THE SCIENCE UNDERPINNING MECHANICAL SELF-ASSEMBLY	47.041	CMMI-06-43726		96,022
CO2 MINERAL SEQUESTRATION INTEGRATED WITH TAILORED SYNTHESIS OF CARBON-NEUTRAL FILLER MATERIALS	47.041	CBET-0933627		95,479
QUANTITATIVELY MODELING THE SYNTHESIS OF NANODOTS	47.041	CBET-0931717		93,380
EAGER: MATHEMATICAL MODELS FOR LARGE-SCALE SERVICE SYSTEMS	47.041	CMMI-0948190		93,003
A RESEARCH AND EDUCATION PROGRAM FOR THE MULTIPHASE ANALYSIS OF THIRD-BODY CONTAMINANTS IN CYCLICAL ROLLING-SLIDING CONT	47.041	EEC-0927304		86,514
DYNAMIC SCHEDULING AND RESOURCE CONTROL IN STOCHASTIC PROCESSING NETWORKS: BEYOND PRIORITY RULES	47.041	CMMI-0969328		86,359
EAGER: TRANSMISSION WELDING AND SINGLE-STEP CHANNELING OF TRANSPARENT MATERIALS BY ULTRAFAST LASER	47.041	CMMI-0936171		84,779

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INTEGRATED CONFLICT, CLAIM, AND DISPUTE AVOIDANCE, MITIGATION AND RESOLUTION METHODOLOGY FOR LARGE-SCALE DESIGN AND CONS	47.041	CMMI-1047534		83,564
COLLABORATIVE RESEARCH: ULTRASONIC WIRELESS DATA FOR EXTREMELY LOW-POWER WAKE-UP RECEIVERS	47.041	ECCS-0925813		83,559
CAREER: ULTRASOUND-INDUCED DRUG DELIVERY THROUGH THE BLOOD-BRAIN BARRIER	47.041	CBET-06-44713		78,276
MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVES SUBSTRATES	47.041	ECCS-0707748	SC2	72,818
CDI-TYPE II: COMPUTING WITH BIOMOLECULES: FROM NETWORK MOTIFS TO COMPLEX AND ADAPTIVE SYSTEMS	47.041	ECCS-1026591		70,259
BRIGE: ONLINE MEASUREMENT OF SUBMICRON AEROSOL COMPOSITION USING AC-CIMS	47.041	EEC-0823847		69,800
AF: SMALL: EFFECTIVE RESOURCE ALLOCATION MECHANISMS: FAIRNESS AND INCENTIVES	47.041	CMMI-0916453		68,297
MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVES SUBSTRATES	47.041	ECCS-0707748	SC1	68,071
COLLABORATIVE RESEARCH: ITERATIVE DOWNCONVERSION FOR BROADBAND SIGNAL DIGITIZATION	47.041	ECCS-1002064		66,307
NEAR-FIELD THERMAL RADIATIVE TRANSFER BETWEEN SPHERICAL OBJECTS	47.041	CBET-0853723		65,785
CDI-TYPE I: COLLABORATIVE RESEARCH: SUPERVISED LEARNING IN MOLECULAR CLASSIFIERS	47.041	CBET-1026592		63,388
ULTRAFAST NONLINEARITIES IN CHIP-SCALE PHOTONIC CRYSTALS	47.041	ECCS-1102257		62,003
VISUALIZING SPIN TORQUE IN NANOSCALE MAGNETIC DEVICES USING ULTRAFAST X-RAY MICROSCOPY	47.041	ECCS-0925829	OFF	58,801
ON-CHIP MAGNETICS FOR POWER MANAGEMENT AND DELIVERY	47.041	ECCS-0903466		57,991
INTEGRATED SELECTION OF THERMALLY RESPONSIVE APTAMERS FOR SPECIFIC PURIFICATION AND ENRICHMENT OF BIOMOLECULES	47.041	CBET-0854030		51,138
CAREER: EFFICIENT MONTE CARLO METHODS IN ENGINEERING AND SCIENCE: FROM COARSE ANALYSIS TO REFINED ES	47.041	CMMI-0846816		49,934
SELF-ASSEMBLY OF NANOPARTICLES FROM EVAPORATING DROPS AND LIQUID FILMSL SCIENCEN ENGINEERING AND APPLICATIONS	47.041	CBET-1034349		43,298
CAREER: NONLINEAR AND NONCLASSICAL OPTICS IN ULTRAHIGH-Q/V MESOSCOPIC CAVITIES: SCIENCE, EDUCATION A	47.041	ECCS-0747787	STI	41,000
CAREER: ENVIRONMENTALLY SIGNIFICANT REFORMING REACTIONS STUDIED USING A NOVEL CATALYTIC SHOCK TUBE	47.041	CBET-0846330		37,442
MONOATOMICALLY THIN FILMS: NONLINEAR MECHANICAL RESPONSE AN MECHANICAL-ELECTRICAL COUPLING	47.041	CMMI-0927891	MAR	36,693
MONOATOMICALLY THIN FILMS: NONLINEAR MECHANICAL RESPONSE AND MECHANICAL-ELECTRICAL COUPLING	47.041	CMMI-0927891	HON	34,471
GENERAL PURPOSE DESIGN SYSTEM FOR COMPOSITE MATERIALS AND STRUCTURES	47.041	CMMI-1127810		34,151
CAREER: MOLECULAR MECHANISMS AND METABOLIC MODELING OF N20 AND NO EMISSION FLUXES FROM BIOLOGICAL NITROGEN REMOVAL REACT	47.041	CBET-0846650	PAR	30,800
SELF-ASSEMBLY OF NANOPARTICLES FROM EVAPORATING DROPS AND LIQUID FILMSL SCIENCEN ENGINEERING AND APP	47.041	CBET-1034349	ELE	30,693
CAREER: MOLECULAR MECHANISMS AND METABOLIC MODELING OF N20 AND NO EMISSION FLUXES FROM BIOLOGICAL NITROGEN REMOVAL REACT	47.041	CBET-0846650		30,177
MONOATOMICALLY THIN FILMS: NONLINEAR MECHANICAL RESPONSE AND MECHANICAL-ELECTRICAL COUPLING	47.041	CMMI-0927891		28,234
LASER MODIFICATION OF SURFACE CRYSTALLINITY OF BIODEGRADABLE POLYMERS	47.041	CMMI-1030536		28,227
CAREER: INTERVENTIONAL MICROSCOPY FOR IN-VIVO INVESTIGATIONS OF BRAIN FUNCTION	47.041	CBET-0954796		24,690
RAPID-ATTACHMENT OF CRUDE OIL AND WASHABILITY OF SAND BEACHES AND MARSH LANDS: EFFECTS OF BERMS AND DISPERSANTS	47.041	CBET-1052697		20,545
VISUALIZING SPIN TORQUE IN NANOSCALE MAGNETIC DEVICES USING ULTRAFAST X-RAY MICROSCOPY	47.041	ECCS-0925829		14,754
NIRT: MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVE SUBSTRATES	47.041	ECCS-0707748	SC4	12,000
EAGER: FEASIBILITY STUDY OF MICRO-LEVEL SENSING AND PROCESS CONTROL OF NITRIFICATION	47.041	CBET-1025685		10,757
LASER PEEN BENDING: SIMULTANEOUS SHAPING AND PROPERTY ENHANCEMENT	47.041	DMI-06-20741		10,000
EVALUATION OF BIOSURFACTANTS PRODUCED BY ANAEROBES AND THEIR PERFORMANCE IN CLEANSING AND ENVIRONMENTAL REMEDIATION	47.041	IIP-0942962		9,430
STUDY OF ROBOT-ASSISTED COCHLEAR IMPLANT INSERTION AND ACTIVE BENDING ELECTRODE ARRAYS	47.041	CBET-06-51649		8,800
CAREER: ADVANCED DEVICES AND TESTING USING ORGANIC FIELD EFFECT TRANSISTORS	47.041	ECCS-0644656		8,163
NANOPOROUS METALS INCORPORATED INTO MEMS AND NEMS DEVICES FOR ENHANCED FUNCTIONALITY	47.041	CMMI-08-26093		7,438

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ENHANCED RAMAN PHENOMENA IN PHOTONIC CRYSTAL NANOSTRUCTURES SCIENCE AND APPLICATIONS	47.041	ECCS-0622069	CWW	7,079
CAREER: DESIGN AND ANALYSIS OF DIFFERENTIATED SERVICES	47.041	CMMI-0447652		6,872
ON-CHIP MAGNETICS FOR POWER MANAGEMENT AND DELIVERY	47.041	ECCS-0903466	REU	6,000
COLLABORATIVE RESEARCH: ULTRASONIC WIRELESS DATA FOR EXTREMELY LOW-POWER WAKE-UP RECEIVERS	47.041	ECCS-0925813	REU	5,804
P-ADIC AUTOMORPHIC REPRESENTATIONS P-ADIC L-FUNCTIONS AND BLOCH-KATO CONJECTURES	47.041	DMS-0701279		4,604
BMES-SPRBM CONFERENCE ON CELLULAR AND MOLECULAR BIOENGINEERING; MIAMI, FLORIDA; 4-8 JANUARY 2011	47.041	CMMI-1108614		4,499
OPTOFLUIDICS FOR NEXT GENERATION OF LABORATORY-ON-A-CHIP	47.041	ECCS-07-01729		4,366
EFFICIENT MONTE CARLO METHODS FOR GAUSSIAN RANDOM FIELDS	47.041	CMMI-1069064		3,614
NIRT: MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVE SUBSTRATES	47.041	ECCS-0707748		3,287
MULTI-TERABIT TRANSPARENT PHOTONIC NETWORKS THROUGH INTEGRATED SILICON PHOTONICS	47.041	ECCS-07-25707 BER		971
ENHANCED RAMAN PHENOMENA IN PHOTONIC CRYSTAL NANOSTRUCTURES SCIENCE AND APPLICATIONS	47.041	ECS-06-22069		407
SYNTHESIS OF BIOSURFACTANTS AND EVALUATION OF THEIR INTERFACIAL PROPERTIES	47.041	IIP-07-30100		-18
PET STUDY OF TRANSCORNEAL ELECTRICAL STIMULATION IN SUBJECTS WITH RETINITIS PIGMENTOSA.	47.041	CBET - 0917458		-113
RAMAN MICROSCOPE FOR PROBING NANO-BIO INTERFACES AND COMPLEX SYSTEMS	47.041	CBET-0933621		-194
KNOWLEDGE, ATTITUDES AND BEHAVIORAL INTENTIONS OF ESSENTIAL PERSONNEL WITH RESPECT TO AVIAN INFLUENZA & SARS	47.041	NSF 0653493		-881
MULTI-TERABIT TRANSPARENT PHOTONIC NETWORKS THROUGH INTEGRATED SILICON PHOTONICS	47.041	ECCS-0725707	WON	-1,617
INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER FOR ADVANCEDSTUDIES IN NOVEL SURFACTANTS	47.041	EEC-03-28614		-29,044
				4,353,286

Mathematical and Physical Sciences

U.S. ATLAS OPERATIONS: EMPOWERING U.S. UNIVERSITIES FOR DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811	PRI	7,533,800
ATLAS PROJECT AT CERN-OFF CAMPUS	47.049	PHY-0758118	#1	1,151,544
U.S. ATLAS OPERATIONS: EMPOWERING U.S. UNIVERSITIES FOR DISCOVERIES AT THE ENERGY FRONTIER: UPGRADE	47.049	PHY-06-12811	CN2	922,013
NEUTRINOS FERMILAB/DOUBLECHOOZ @ FRANCE--OFF CAMPUS	47.049	PHY-0758118	#2	596,074
EMSW21-RTG: NEW TECHNIQUES IN LOW-DIMENSIONAL TOPOLOGY AND GEOMETRY	47.049	DMS-0739392		479,275
ATLAS AND NEUTRINO CONSTRUCTION PROJECTS	47.049	PHY-0758118	CON	393,230
COLLABORATIVE PROPOSAL: THE XENON DARK MATTER PROJECT: CONSTRUCTION AND OPERATION OF A 100 KG DETECTOR	47.049	PHY-0705337	CON	312,814
MRI INSTRUMENT DEVELOPMENT FOR LIQUID XENON DARK MATTER SEARCHES: AN ATOM TRAP TRACE ANALYSIS SYSTEM TO MEASURE ULTRA-LO	47.049	PHY-0923274		297,099
EXPERIMENTAL PHYSICS RESEARCH PROGRAM AT COLUMBIA UNIVERSITY/NEVIS LABORATORIES	47.049	PHY-0758118		282,304
IMPROVED UNDERSTANDING OF MOLECULAR CLOUDS AND EMISSION LINE OBJECTS WITH LABORATORY ASTROPHYSICS ST	47.049	AST-0807436		279,064
CATALYTIC REACTIONS FOR ORGANIC SYNTHESIS: NOVEL STRATEGIES FOR CYCLOPROPANJE SYNTHESIS AND OXIDATIVE CARBONYLATION	47.049	CHE-0953259		276,031
EAGER: NONLINEAR SPECTROSCOPIC METHOD TO MEASURE BIOMOLECULE AFFINITY CONSTANTS	47.049	CHE-1041980		268,034
TASK 1: LIQUID ARGON CALORIMETER DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811	CN1	253,906
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	PRI	211,941
TRACING GASEOUS GALAXY EVOLUTION AND GALAXIES AS A TEACHING TOOL FOR MIDDLE SCHOOL AND COLLEGE STUDENTS	47.049	AST-094059		201,055
TRACTABILITY OF HIGH DIMENSIONAL PROBLEMS FOR QUANTUM AND CLASSICAL COMPUTERS	47.049	DMS-0914345		169,150
SYNTHETIC, STRUCTURAL AND MECHANISTIC STUDIES OF MAIN GROUP ELEMENT COMPLEXES: ATOM TRANSFER REACTIO	47.049	CHE-07-49674		167,886
INTERNATIONAL COLLABORATION IN CHEMISTRY OF PHOTOCHEMISTRY & REDOX-PROPERTIES OF CHLOROPHYLL-CATABOLITES	47.049	CHE-1025508		162,289

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COLLABORATIVE RESEARCH: EMSW21-RTG: JOINT COLUMBIA-CUNY-NYU RESEARCH TRAINING GROUP IN NUMBER THEORY	47.049	DMS-0739400		160,415
NSF/NRI GRADUATE STUDENT & POST-DOC FELLOW SUPPLEMENTS	47.049	CHE-06-41523	GRA	152,914
CCNY SUBCONTRACT NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	20	148,443
SPECTROSCOPY OF ELECTRON LIQUIDS IN QUANTUM STRUCTURES	47.049	DMR-0803691		144,629
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	29	141,993
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	10	141,121
REACTIONS OF FUNCTIONAL POLYMERS AT ORGANIC INTERFACES	47.049	DMR-0704054		140,696
ACQUISITION OF A 400 MHZ CYBER-ENABLED NUCLEAR MAGNETIC RESONANCE SPECTROMETER FOR TEACHING AND RESE	47.049	CHE-0840451		139,720
SILANE REAGENTS AND CATALYSTS FOR ASYMMETRIC SYNTHESIS OF CARBINAMINES	47.049	CHE-0809659		135,743
PROBLEM IN COMPLEX ANALYSIS, COMPLEX GEOMETRY, AND MATHEMATICAL PHYSICS	47.049	DMS 0757372		135,194
LHC EXPERIMENTAL EXPERIENCE AT CERN	47.049	PHY-0840636		135,000
BIOMIMETIC AND POLYMERIC CATALYSIS IN WATER	47.049	CHE-0948318		132,641
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	7	128,221
HEEGAARD DIAGRAMS AND HOLOMORPHIC DISKS	47.049	DMS-0804121		127,973
DWARF GALAXIES, ABUNDANCE DISTRIBUTIONS AND THE PHYSICS OF GALAXY FORMATION	47.049	AST-08-06558		126,157
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	9	124,186
CAREER: SIMULATING COSMOLOGICAL GALAXY FORMATION WITH ADAPTIVE-MESH REFINEMENT	47.049	AST-0547823		123,983
LINK HOMOLOGY AND CATEGORIFICATION OF QUANTUM GROUPS	47.049	DMS-1005750		121,161
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	3	120,836
CAREER: CREATING MATERIALS VIA ACTIVE SELF-ASSEMBLY DRIVEN BY BIOMOLECULAR MOTORS	47.049	DMR-1015486		120,812
DUSEL R&D PROPOSAL: R&D PROGRAM TO DEVELOP NOVEL CRYOGENIC TRACKING DETECTORS FOR UNDERGROUND EXPERIMENTS	47.049	PHY-06-53541	OFF	118,673
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURE	47.049	CHE-06-41523	13	117,009
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	2	116,721
STOCHASTIC CONTROLS, GAMES AND PORTFOLIOS	47.049	DMS-0905754		111,070
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	1	109,051
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	5	108,383
DYNAMICS OF GAS PHASE ORGANIC REACTIONS	47.049	CHE-0910876		106,320
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	4	100,359
FROM CLUSTERS TO VOIDS: GAS AND GALAXY EVOLUTION	47.049	AST-1009476		99,399
REU/RET NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	27	98,179
TOWARD A COMPLETE UNDERSTANDING OF YOUNG NEUTRON STARS	47.049	AST-0908386		95,883
AMC-SS: COLLABORATIVE RESEARCH: STOCHASTIC PROCESSES AND TIME SERIES MODELS: ALGORITHMS, ASYMPTOTICS AND PHASE TRANSITIO	47.049	DMS-0902075		94,577
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	30	93,869
TOPICS IN ARITHMETIC ALGEBRAIC GEOMETRY	47.049	DMS-0970100		87,988
CAREER: MULTIMESSENGER ASTRONOMY THROUGH GRAVITATIONAL-WAVES: A STUDENT CENTERED APPROACH	47.049	PHY-0847182		86,462
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	16	85,746
NANOSCALE SENSING OF THE CHEMISTRY AND SELF-ASSEMBLY OF MOLECULES AT INTERFACES USING SCANNING PROBE MICROSCOPY	47.049	CHE-0701483		85,208

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NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	8	82,277
ANISOTROPIC SELF-ASSEMBLY OF SPHERICAL NANOPARTICLES IN POLYMER NANOCOMPOSITES	47.049	DMR-0804647		80,145
PARTIAL DIFFERENTIAL EQUATIONS WITH RANDOM COEFFICIENTS AND INVERSE PROBLEMS	47.049	DMS-0804696		78,383
APPLIED PROBABILITY AND TIME SERIES MODELING	47.049	DMS-07-43459		78,017
CAREER: PHYSICS OF NON-NEUTRAL AND ELECTRON-POSITRON PLASMAS CONFINED IN THE CNT STELLARATOR	47.049	PHY-04-49813		77,673
BARNARD SUBCONTRACT NSEC: COLUMBIA CENTER FOR ELECTRONIC ...	47.049	CHE-06-41523	22	76,527
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	6	72,551
NON FERMİ LIQUID PHYSICS AND QUANTUM CRITICAL PHENOMENA	47.049	DMR-0705847		71,336
SPARSE PREDICTORS IN FUNCTIONAL DATA ANALYSIS	47.049	DMS-0806088		69,221
COLLABORATIVE RESEARCH: MASSIVE SURVEYS FOR PULSARS AND RADIO TRANSIENTS USING THE ARECIBO L-BAND FE	47.049	AST-0806942		68,701
COMPUTATIONAL METHODS IN RISK MANAGEMENT AND FINANCIAL ENGINEERING	47.049	DMS-0914539	#1	67,313
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	32	67,060
DYNAMICS OF HUMAN BEHAVIOR: DECENTRALIZATION AND LOCAL PUBLIC GOODS: HOW DOES ALLOCATION OF DECISION-MAKING...	47.049	SES-06-24256		66,113
GEOMETRIC ANALYSIS PROBLEMS RELATED TO SURFACES IN MATHEMATICAL PHYSICS	47.049	DMS-0904281		65,736
SUM FREQUENCY STUDIES OF LIQUID INTERFACES	47.049	CHE-07-14606		64,407
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	DIR	62,593
COLLABORATIVE RESEARCH: AUTOMORPHIC FORMS, REPRESENTATIONS AND L-FUNCTIONS	47.049	DMS-1001036		62,296
WAVE PROPAGATION AND RESONANCE IN COMPLEX MEDIA	47.049	DMS-07-07850		62,206
COLLABORATIVE RESEARCH: THE ORIGIN OF RESISTANCE IN NANOTUBES: SEMI-CLASSICAL TO QUANTUM TRANSPORT IN ONE-DIMENSION	47.049	DMR-1006533		60,090
EXCLUDING SUBSTRUCTURES IN GRAPHS	47.049	DMS-0758364		59,580
FAST FIRST-ORDER METHODS FOR LARGE-SCALE STRUCTURED AND SPARSE OPTIMIZATION	47.049	DMS-1016571		57,772
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	31	56,574
STRUCTURE AND DYNAMICS OF METASTABLE MATERIALS	47.049	CHE-07-19089		55,706
GAS ACCRETION AND THE DISK-HALO INTERFACE	47.049	AST-1008134		55,128
NONLINEAR ELLIPTIC PARABOLIC PROBLEMS IN ANALYSIS AND GEOMETRY	47.049	DMS-1001116		54,538
EQUIPMENT NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT ...	47.049	CHE-06-41523	24	54,495
REGULARITY OF SOLUTIONS TO NONLINEAR ELLIPTIC PDES	47.049	DMS-0701037		52,712
MATERIALS WORLD NETWORK: NONLINEAR OPTICAL METAMATERIALS - FABRICATION, CHARACTERIZATION, THEORY	47.049	DMR-0806682		50,851
K-STABILITY IN ALGEBRAIC GEOMETRY	47.049	DMS-0700419		50,497
ALGEBRAIC STACKS	47.049	DMS-0970108		49,739
COLUMBIA UNIVERSITY RESEARCH EXPERIENCES FOR UNDERGRADUATES	47.049	CHE-07-54919		49,524
COLLABORATIVE PROPOSAL:THE XENON DARK MATTER PROJECT:CONSTRUCTION AND OPERATION OF A 100 KG DETECTOR	47.049	PHY-0705337		49,507
CAREER: PHYSICS OF NON-NEUTRAL AND ELECTRON-POSITRON PLASMAS CONFINED IN THE CNT STELLARATOR	47.049	PHY-04-49813	SUP	48,772
FRG: COLLABORATIVE RESEARCH: GEOMETRY OF MODULI SPACES OF RATIONAL CURVES WITH APPLICATIONS TO DIOPHANTINE PROBLEMS...	47.049	DMS-05-54442		46,076
CELLULASE DISCOVERY VIA CHEMICAL OMPLEMENTATION	47.049	CHE-09-57569		45,708
PERIODIC PHENOMENA IN CATACLYSMIC BINARIES	47.049	AST-0908363		45,058
PARTIAL DIFFERENTIAL EQUATIONS ON COMPLEX AND SYMPLECTIC MANIFOLDS	47.049	DMS-1005457		41,588

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CRITICAL PLANAR SYSTEMS AND CONFORMAL INVARIANCE	47.049	DMS-1005749		41,496
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	DIS	40,483
ADMINISTRATIVE NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	23	40,286
RICCI CURVATURE AND THE STRUCTURE OF MANIFOLDS	47.049	DMS-1005484		39,499
MOLECULAR DYNAMICS AND MONTE CARLO SIMULATIONS OF CLASSICAL AND QUANTUM SYSTEMS	47.049	CHE-0910943		38,790
MATERIALS WORLD NETWORK:STUDIES OF QUANTUM PHASE TRANSITIONS BY MUSR IN AMBIENT AND APPLIED PRESSURE	47.049	DMR 0806846	OFF	38,333
COMPUTATIONAL METHODS IN RISK MANAGEMENT AND FINANCIAL ENGINEERING	47.049	DMS-0914539		37,728
D-ZERO PROJECT AT FERMILAB-OFF CAMPUS	47.049	PHY-0758118	#3	36,939
COLORING AND STRUCTURE	47.049	DMS-1001091		36,438
ALGEBRAIC KNOT HOMOLOGY	47.049	DMS-0964439		36,376
DUSEL R&D PROPOSAL: R&D PROGRAM TO DEVELOP NOVEL CRYOGENIC TRACKING DETECTORS FOR UNDERGROUND EXPERIMENTS	47.049	PHY-06-53541		35,868
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	NAR	34,191
OUTREACH & EDU NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	28	32,890
U.S. ATLAS OPERATIONS: EMPOWERING U.S. UNIVERSITIES FOR DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811	OFF	31,957
ELECTROPHILIC ATTACK ON COORDINATED LIGANDS INVOLVED IN CATALYSIS BY ORGANOMETALLIC COMPLEXES	47.049	CHE-07-49537		31,435
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	33	30,591
ROWAN SUBCONTRACT NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	21	27,970
R&D OF LXE DETECTOR TECHNOLOGY FOR DARK MATTER EXPERIMENTS	47.049	PHY-1047794		27,753
THE VERSATILITY OF INTERGRABILITY	47.049	DMS-1111152		27,497
FRG: COLLABORATIVE RESEARCH: AUTOMORPHIC FORMS, GALOIS REPRESENTATIONS, AND SPECIAL VALUES OF L-FUNCTIONS	47.049	DMS-04-56298		25,826
TOPOLOGY OF MANIFOLDS AND ALGEBRAIC VARIETIES	47.049	DMS-0706815		25,351
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	FAC	24,722
MRI INSTRUMENT DEVELOPMENT FOR LIQUID XENON DARK MATTER SEARCHES: AN ATOM TRAP TRACE ANALYSIS SYSTEM TO MEASURE ULTRA-LO	47.049	PHY-0923274	EQI	23,448
2010 NSF NANOSCALE SCIENCE AND ENGINEERING GRANTEES CONFERENCE	47.049	CHE-06-41523	35	22,909
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	ADM	21,856
NANOSCALE SENSING OF THE CHEMICAL AND PHYSICAL PROPERTIES OF TWO-DIMENSIONAL MATERIALS AND INTERFACES USING SCANNING PRO	47.049	CHE-1012058		21,589
CAREER: A NOVEL COSMIC MICROWAVE BACKGROUND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS OF COHERENT POLARIMETERS	47.049	AST-04-49809		21,374
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCT	47.049	CHE-06-41523	34	20,751
COLLABORATIVE RES: A GENERAL FRAMEWORK FOR HIGH THROUGHPUT BIOLOGICAL LEARNING: THEORY DEVELOPMENT AND APPLICATIONS	47.049	DMS-07-14669		20,748
CAREER: MULTIMESSENGER ASTRONOMY THROUGH GRAVITATIONAL-WAVES: A STUDENT CENTERED APPROACH	47.049	PHY-0847182	PAR	20,210
FRG: COLLABORATIVE RESEARCH: COMBINATORIAL REPRESENTATION THEORY, MULTIPLE DIRICHLET SERIES AND MOMENTS OF L-FUNCTIONS	47.049	DMS-0652554		19,747
MOLECULAR DYNAMICS AND MONTE CARLO SIMULATIONS OF CLASSICAL AND QUANTUM SYSTEMS	47.049	CHE-06-13401		19,424
REU SITE AT NEVIS LABS, COLUMBIA UNIVERSITY	47.049	PHY-07-54124		19,334
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-0507111	SUB	18,720
COLLABORATIVE: VISCOELASTICITY OF NANOPARTICLE DISPERSED POLYMER MELTS: EXPERIMENT AND SIMULATION	47.049	DMR-1006514		18,195
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	17	18,047
TRACTABILITY OF HIGH DIMENSIONAL PROBLEMS FOR QUANTUM AND CLASSICAL COMPUTERS	47.049	DMS-0914345	OFF	17,876

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COLLABORATIVE RESEARCH: FAST FUNCTIONAL MRI	47.049	DMS-0804198		17,435
ENUMERATIVE GEOMETRY AND TOPOLOGY OF MODULI SPACES	47.049	DMS-0401128		17,031
CLEAN ROOM NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT ...	47.049	CHE-06-41523	25	16,428
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL, AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-0507111	OBR	16,349
INVERSE PROBLEMS, ROBUST OPTIMIZATION AND MATHEMATICAL PROGRAMS WITH EQUILIBRIUM CONSTRAINTS: ALGORITHMS AND APPLIC	47.049	DMS-06-06712		12,894
WAVE PROPAGATION AND RESONANCE IN COMPLEX MEDIA	47.049	DMS-07-07850	PAR	11,568
GEOMETRIC PROBLEMS IN GENERAL RELATIVITY	47.049	DMS-1005560		11,313
CAREER: A NOVEL COSMIC MICROWAVE BACKGROUND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS	47.049	AST-04-49809	REU	11,236
CONFERENCE ON IMAGING, COMMUNICATION AND FINANCE: STOCHASTIC MODELING OF REAL-WORLD PROBLEMS	47.049	DMS-1129626		9,406
PROG DISCRETIONARY NSEC: COLUMBIA CENTER FOR ELECTRONIC	47.049	CHE-06-41523	19	9,067
NSF NANOSCALE SCIENCE AND ENGINEERING CENTER (NSEC): CENTER FOR ELECTRON TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	SUP	8,749
A MULTI-WAVELENGTH CALIBRATION OF GALAXY CLUSTERS AS COSMOLOGICAL PROBES	47.049	AST-0507161		8,544
ANISOTROPIC SELF-ASSEMBLY OF SPHERICAL NANOPARTICLES IN POLYMER NANOCOMPOSITES	47.049	DMR-0804647	PAR	8,500
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	ELO	8,397
MATERIALS WORLD NETWORK:STUDIES OF QUANTUM PHASE TRANSITIONS BY MUSR IN AMBIENT AND APPLIED PRESSURE	47.049	DMR-0806846		8,350
NONLINEAR ELLIPTIC AND PARABOLIC PROBLEMS	47.049	DMS-0701045		6,794
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	JUN	6,601
TAILORING POLYMER NANOCOMPOSITE PROPERTIES BY NANOPARTICLE ASSEMBLY	47.049	DMR-1106180		5,992
COLLABORATIVE RESEARCH: MAPPING THE GALACTIC ARECIBO SKY IN THE 21-CM LINE	47.049	AST-0917810		5,745
NSF CI TRACS POSTDOCTORAL FELLOWSHIP FOR MATTHEW TURK ENTITLED: "AN INTEGRATED SCIENCE ENVIRONMENT F	47.049	NSF 1048505		5,000
COLLABORATIVE PROPOSAL: THE XENON DARK MATTER PROJECT: CONSTRUCTION AND OPERATION OF A 100KG DETECTOR	47.049	PHY-0705337	SCP	4,542
CONFORMALLY INVARIANT RANDOM SYSTEMS	47.049	DMS-0854759		4,507
CAREER: A NOVEL COSMIC MICROWAVE BACKGROUND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS OF COHERENT POLARIMETERS	47.049	AST-04-49809	REV	4,433
CAREER: PARTICLE-BY-PARTICLE STUDIES OF HETEROGENEOUS DYNAMICS IN MOLECULAR AND COLLOIDAL GLASSES	47.049	CHE-07-44322		4,334
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	ADM	4,095
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	FAC	3,919
POSTDOC-NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	18	3,624
COLLABORATIVE RESEARCH: COMPETITIVE HETEROGENEOUS HYBRIDIZATION IN DNA DIAGNOSTICS	47.049	DMR-07-05814		3,369
MECHANISM OF GRB EMISSION	47.049	AST-1008334		2,588
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	15	2,236
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURE	47.049	CHE-06-41523		1,251
COLLABORATIVE: THE IONOMER TO POLYELECTROLYTE TRANSITION IN CHARGED POLYMERS	47.049	DMR-07-05435		1,251
CATEGORIFICATION AND 3-MANIFOLD INVARIANTS IN ALGEBRAIC GEOMETRY	47.049	DMS-1101439		1,140
MATERIALS WORLD NETWORK: NONLINEAR OPTICAL METAMATERIALS - FABRICATION, CHARACTERIZATION, THEORY	47.049	DMR-0806682	PAR	1,000
COLLABORATIVE RESEARCH: THE ASSEMBLY HISTORY OF THE ANDROMEDA SPIRAL GALAXY	47.049	AST-07-34864		952
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	14	782
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574		732

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POSTDOCTORAL FELLOWSHIP FOR MARCEL AGUEROS	47.049	AST-06-02099		673
SEARCHING FOR GRAVITATIONAL WAVES USING THE LIGO DETECTORS IN COINCIDENCE WITH ASTROPHYSICAL TRIGGERS	47.049	PHY-04-57528		449
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-0507111		395
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	OUT	84
CAREER: A NOVEL COSMIC MICROWAVE BACKGROUND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS OF COHERENT POLARIMETERS	47.049	AST-04-49809	CON	17
INTER-AMERICAN MATERIALS COLLAB (CIAM): PROBING QUANTUM PHASE TRANSITIONS BY MUSR & COMPLEMENTARY METHODS IN APPL...	47.049	DMR-05-02706	PR	4
COLLARORATIVE RESEARCH: ALGORITHMS FOR NEAR-OPTIMAL MULTI-STAGE DECISION-MAKING UNDER UNCERTAINTY: ONLINE LEARNING	47.049	DMS-07-32169		-34
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	BAL	-60
SUPERNOVA 1987A: VERSATILE ASTROPHYSICAL TOOL & UNIQUE OPPORTUNITY TO STUDY SNR FORMATION	47.049	AST-0807638		-584
SEARCHING FOR GRAVITATIONAL WAVES USING THE LIGO DETECTORS IN COINCIDENCE WITH ASTROPHYSICAL TRIGGERS	47.049	PHY-04-57528	SUP	-1,117
				21,927,342

Geosciences

SHIP OPERATIONS-2010	47.050	OCE-0813737	NEW	5,560,168
OCEANOGRAPHIC TECHNICAL SERVICES 2009-2011, R/V LANGSETH	47.050	OCE-0921736		2,980,189
SHIP OPERATIONS-2010 MOSA	47.050	OCE-0813737	MOS	1,929,946
MITIGATION OF IMPACTS OF OCEAN SCIENCES RESEARCH OF MARINE MAMMALS 2009-2011	47.050	OCE-0924111		830,174
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON, AND TRACER MEASUREMENTS, 2009-2014	47.050	OCE-0752980		690,756
GEOINFORMATICS FACILITIES SUPPORT: INTEGRATED DATA COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: THE MARIEN GEOSCIENCE DAT	47.050	OCE-0950477		495,990
OCEANOGRAPHIC INSTRUMENTATION 2011	47.050	OCE-1119776		400,000
GEOINFORMATICS FACILITIES SUPPORT: INTEGRATED DATA COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: THE MARIEN GEOSCIENCE DAT	47.050	OCE-0950477		395,407
COLLABORATIVE RESEARCH: AN ABYSSAL CIRCULATION TYPE SECTION FOR THE NORTH ATLANTIC	47.050	ATM-0936496		306,897
COLLABORATIVE RESEARCH: ROLLING DECK TO REPOSITORY (R2R): TRANSFORMING THE ACADEMIC FLEET INTO AN INTEGRATED GLOBAL OBSE	47.050	OCE-0947877		293,577
COLLAB RES: UPLIFT & FAULTING AT THE TRANSITION FROM SUBDUCTION TO COLLISION A FIELD & MODELING	47.050	EAR-06-07687		284,913
PALEOCLIMATE SHOCKS: ENVIRONMENTAL VARIABILITY, HUMAN VULNERABILITY, AND SOCIETAL ADAPTATION DURING THE LAST MILLENNIUM	47.050	GEO-0908971		269,178
IDEALIZED MODELLING OF STRATOSPHERIC IMPACTS ON WEATHER AND CLIMATE	47.050	ATM-0839843		262,924
COLLAB RESCH:HOW IS RIFTING EXHUMING THE YOUNGEST HIGH-PRESSURE & ULTRAHIGH-PRESSURE ROCKS THE EARTH	47.050	EAR-0814236		223,377
COLLABORATIVE PROPOSAL: MOORED OBSERVATIONS OF TURBULENT KINETIC ENERGY DISSIPATION IN AND BELOW THE MIXED LAYER DURING	47.050	OCE-07-45442		223,120
COLLABORATIVE RES.: 3-D/4D SEISMIC REFLECTION IMAGING THE MAGMATIC-HYDROTHERMAL SYSTEM AT THE EAST	47.050	OCE-0327872		203,832
SUPPORT FOR THE U.S. GEOTRACES PROJECT OFFICE	47.050	OCE-0850963		201,932
COLLABORATIVE RESEARCH: HOW IS RIFTING EXHUMING THE YOUNGESTHP/UHP ROCKS ON EARTH?	47.050	EAR-0708445		201,669
CAREER: THE ATMOSPHERIC CHEMISTRY OF ICE AND SNOW	47.050	ATM-0845043		201,498
DEEP-SEA REPOSITORY AND THE CURATING AND MAINTENANCE OF THE SEDIMENT LIBRARY AND DREDGE COLLECTION	47.050	OCE-0962010		200,306
A MODEL-BASED INVESTIGATION OF CLIMATE VARIABILITY AND CLIMATE CHANGE: FOCUS ON THE WEST AFRICAN MON	47.050	AGS-1000874		197,175
PRESERVING THE LEGACY OF MG&G OCEAN EXPLORATION: AN ONLINE DATA CATALOG AND LIBRARY FOR THE GLOBAL OCEAN	47.050	OCE-0526942		176,428
SEDDb, THE ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY CONTINUED OPERATION AND DEVELOPMENT	47.050	OCE-0826197		172,141
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON, AND TRACER MEASUREMENTS	47.050	OCE-02-23951		171,010
COLLABORATIVE RESEARCH: MECHANISMS OF TRANSIENT DEFORMATION FOLLOWING GREAT 2006-2007 KURIL EARTHQUAKES: FRICTIONAL AFTE	47.050	EAR-1014679		155,572

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COLLABORATIVE RESEARCH: FAST SPIN UP OF OCEAN GENERAL CIRCULATION MODELS USING NEWTON-KRYLOV METHODS	47.050	OCE-0824635		152,994
MARGINS OFFICE SUPPORT	47.050	OCE-0840879		152,156
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON AND TRACER MEASUREMENTS 2009-2014	47.050	OCE-0752980 SME	SME	149,752
OCEANOGRAPHIC INSTRUMENTATION 2008	47.050	OCE-0827872		146,606
COLLABORATIVE RESEARCH: U.S. GEOTRACES NORTH ATLANTIC SECTION: ANALYSIS OF 230TH, 232TH AND 231PA	47.050	OCE-0927064		141,954
COLLABORATIVE RESEARCH: ANALYSIS OF THE INSTANT OBSERVATIONS OF THE INDONESIA THROUGHFLOW	47.050	OCE-07-25935		137,182
RAPID: RAPID ASSESSMENT OF EXTENT AND PHOTOPHYSIOLOGICAL	47.050	OCE-1048482		136,513
COLLABORATIVE RESEARCH: CRUSTAL ACCRETION AND MANTLE PROCESSES ALONG THE SUBDUCTION-INFLUENCED EASTERN LAU SPREADING CEN	47.050	OCE-0426369		134,283
COLLABORATIVE RESEARCH: SEISMIC REFLECTION DATA SYSTEM FOR MARINE GEOSCIENCES II	47.050	OCE-0824630		133,043
SHIPBOARD SCIENTIFIC SUPPORT EQUIPMENT 2010	47.050	OCE-1019663		127,793
RESEARCH EXPERIENCE FOR STUDENTS OF EARTH & ENVIRONMENTAL SCIENCE JOURNALISM: 2005-2009 (RENEWAL OF EAR-98-05727)	47.050	EAR-04-53212		126,323
REU SITE: RESEARCH EXPERIENCE FOR UNDERGRADUATES: ANALYZING GLOBAL DATABASES	47.050	OCE-1003931		125,631
ANALYSIS OF 9050'N EAST PACIFIC RISE SEISMICITY: INSIGHT INTO HYDROTHERMAL AND MAGMATIC PROCESSES	47.050	OCE-0732569		125,262
COLLABORATIVE RESEARCH: THE NORTH ANATOLIAN FAULT IN THE MARMARA SEA, TURKEY: THE GROWTH OF CONTINENTAL TRANSFORM	47.050	OCE-0928447		123,057
MRI: RAPID: OIL SPILL INSTRUMENT ACQUISITION FOR FLUOMETRIC DETECTION OF UNDERWATER OIL AND SOLUBLE VOC'S	47.050	OCE-1058233		122,463
MODELING THE TROPICAL ATMOSPHERE-OCEAN SYSTEM: DETERMINING THE CAUSES OF NEAR FUTURE SUBTROPICAL DRY	47.050	AGS-0804107		119,655
PATAGONIA GLACIATION, GEOCHEMICAL TRACERS OF ATLANTIC MERIDIONAL OVERTURNING CIRCULATION, AND IRON F	47.050	OCE-0823507		117,060
A DEPTH TRANSECT OF SEDIMENTARY 231PA/230TH IN THE WESTERN ATLANTIC SINCE THE LAST ICE AGE	47.050	OCE-0902985		116,965
FACILITY SUPPORT: THE GLOBAL CMT PROJECT	47.050	EAR-0824694		116,494
HIGH AND LOW-LATITUDE CONTROLS ON THE MEAN POSITION OF THE ATLANTIC ITCZ (0-150 KA BP)	47.050	OCE-0927247		112,670
COLLABORATIVE RES: ADVANCED LASER FLUOROMETER (ALF) FOR IN VIVO CHARACTERIZATION OF PHYTOPLANKTON PIGMENTS, ...	47.050	OCE-07-24561		108,936
RAPID: IMPACT OF GULF OIL SURFACE FILMS ON ATMOSPHERE-OCEAN EXCHANGE	47.050	AGS-1049323		105,984
ASSESSING THE FIDELITY OF FORAMINIFERAL MG/CA- D18O TO ESTIMATE SEAWATER D18OR: A MULTISPECIES CALIB	47.050	OCE-07-52649		104,159
COLLABORATIVE RESEARCH: INTEGRATED DATA MANAGEMENT FOR HYDROTHERMAL SPRING GEOCHEMISTRY	47.050	OCE-0819368		100,031
NEW DIAGNOSTICS OF WATER-MASS VENTILATION ESTIMATED FROM TRACER DATA	47.050	OCE-07-27229 670	670	99,885
COLLABORATIVE RESEARCH: INVESTIGATING THE DYNAMICS IN DEEP VALLEYS ON THE SEAFLOOR WITH NUMERICAL EXPERIMENTS AND DATA A	47.050	OCE-0751967		98,748
COLLABORATIVE RESEARCH: GRAZING AND IRON CONTROLS OF DIATOM BLOOMS IN THE ARABIAN SEA	47.050	OCE-1121039		94,790
SOUTH CHINA SEA- INDONESIA SEAS TRANSPORTATION /EXCHANGE (SITE)	47.050	OCE-07-51927		93,826
USING NUMERICAL MODELS OF POROELASTIC FLUID FLOW TO CONSTRAIN THE PERMEABILITY STRUCTURE OF YOUNG OCEANIC CRUST	47.050	OCE-0928181		90,303
COLLAB RSCH: EARTHCHEM - ADVANCING DATA MANAGEMENT IN SOLID EARTH GEOCHEMISTRY	47.050	EAR-05-22195		89,136
COLLABORATIVE RESEARCH: A PROPOSAL FOR THE COSMIC-RAY PRODUCED NUCLIDE SYSTEMATICS ON EARTH (CRONUS-EARTH) PROJECT	47.050	EAR-0345835		87,639
COLLABORATIVE RESEARCH: US GEOTRACES NORTH ATLANTIC SECTION - ND ISOTOPE DISTRIBUTION: SOURCES, SINKS AND INTERNAL CYCLI	47.050	OCE-0928409		87,373
COLLABORATIVE RESEARCH: GEOTRACES INTERCALIBRATION OF 230TH, 231PA, 10BE, REE, ND ISOTOPES AND	47.050	OCE-0752402		86,267
PALEOCLIMATE SHOCKS: ENVIRONMENTAL VARIABILITY, HUMAN VULNERABILITY, AND SOCIETAL ADAPTATION DURING THE LAST MILLENNIUM	47.050	GEO-0908971	OFF	85,267
MEGATHRUST SEISMIC HAZARD BY REFLECTION	47.050	OCE-0926614		84,305
STUDIES OF UNUSUAL EARTHQUAKES: VOLCANOS AND LANDSLIDES	47.050	EAR-0944055		83,270
COLLABORATIVE RESEARCH: THE PULSE OF HOLOCENE GLACIATIONS IN NEW ZEALAND'S SOUTHERN ALPS	47.050	EAR-0823521		81,710

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ELEMENT RECYCLING FROM UHP METASEDIMENTS: EVIDENCE AND CONSEQUENCES	47.050	OCE-07-42368		81,705
A SYNTHESIS OF INDIAN AND U.S. GEOPHYSICAL DATA TO INVESTIGATE THE STRUCTURE AND TECTONICS OF THE ANDAMAN SEA	47.050	OCE-0927024		80,858
MANAGING DIGITAL COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: GEOINFORMATICS FOR GEOCHEMISTRY AND MAR	47.050	OCE-0649638		80,818
FUTURE CHANGES IN THE SEASONAL CYCLE: MECHANISMS AND IMPLICATIONS	47.050	AGS-0946849		78,204
SURFACE-WAVE PROPAGATION ACROSS NORTH AMERICA: NEW METHODS, OBSERVATIONS AND MODELS	47.050	EAR-0952285		76,070
COLLABORATIVE RESEARCH: DEVELOPMENT AND SUPPORT OF THE MB-SYSTEM SOFTWARE PACKAGE FOR PROCESSING AND DISPLAY OF ...	47.050	OCE-0623584		74,752
PETDB, THE PETROLOGICAL DATABASE OF THE OCEAN FLOOR CONTINUED OPERATION	47.050	OCE-07-26068		72,381
RAPID: ANTHROPOGENIC RADIONUCLIDES IN THE ATLANTIC OCEAN 4 DECADES AFTER GEOSECS	47.050	OCE-1012154		70,501
QUANTIFYING SUBGLACIAL EROSION RATES AND EXPLORING PRO-GLACIAL BEDROCK AS CLIMATE ARCHIVE BY IN-SITU COSMOGENIC C14 AND	47.050	EAR-0922165		70,493
COLLABORATIVE RESEARCH: SEISMIC AND GEODETIC IMAGING OF SUBDUCTING TERRANES UNDER NORTH AMERICA	47.050	EAR-08-14235		69,506
FUTURE CHANGES IN THE SEASONAL CYCLE: MECHANISMS AND IMPLICATIONS	47.050	AGS-0946849		68,178
COLLABORATIVE RESEARCH: ADVANCED MODELS OF MAGMA MIGRATION AT CONVERGENT MARGINS	47.050	OCE-0841079		67,311
COLLABORATIVE RESEARCH: VOLATILE LOSS DURING MAGMA ASCENT AND COOLING	47.050	EAR-0948533		65,800
COLLABORATIVE RESEARCH: SEISMIC STRUCTURE AND EVOLUTION OF OCEANIC CRUST ALONG THE JUAN DE FUCA RIDGE AND ITS FLANKS	47.050	OCE-06-48303		64,383
DYNAMICS OF TROPICALLY FORCED ZONALLY SYMMETRIC CLIMATE VARIABILITY	47.050	AGS-0543256		64,300
EARTHSOPE INTEGRATED INVESTIGATION OF CASCADIA SUBDUCTION ZONE TREMOR, STRUCTURE AND PROCESS	47.050	EAR-08-14237		63,399
IDEALIZED MODELS FOR TROPICAL CLIMATE DYNAMICS	47.050	AGS-1008847		62,577
MARGINS OFFICE SUPPORT	47.050	OCE-0840879	PAR	60,225
MANTLE DYNAMICS AND MAGMATISM ACROSS THE BASIN AND RANGE	47.050	EAR-07-45797		59,489
GEOINFORMATICS FACILITIES SUPPORT: INTEGRATED DATA COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: THE MARIEN GEOSCIENCE DAT	47.050	OCE-0950477	IED	58,953
COLLABORATIVE RESEARCH: QUANTITATIVE IMPORTANCE AND TROPHIC ROLE OF NOCTILUCA BLOOMS IN THE ARABIAN SEA	47.050	OCE-1121022		57,510
ATLAS PROJECT @ LHC, CERN-SWITZERLAND: OFF CAMPUS	47.050	PHY 10-67934	EP1	57,388
SUPPORT FOR THE U.S. GEOTRACES PROJECT OFFICE	47.050	OCE-0850963	PAR	56,015
COLLABORATIVE RESEARCH: VARIATIONS IN UPPER-MANTLE TEMPERATURE, DEFORMATION, AND MELTING INFERRED FROM THE SEISMIC STRUC	47.050	EAR-0838225		54,935
CMG RESEARCH: ANALYSIS AND APPLICATION OF XFEM TO DYNAMIC RUPTURE PROCESSES IN EARTHQUAKE PHYSICS	47.050	EAR-0934736	SHA	54,456
COLLABORATIVE RESEARCH: CSEDI--ORIGIN AND EVOLUTION OF HIGHLY SIDEROPHILE ELEMENTS IN EARTH'S MANTLE	47.050	EAR-0757853		50,280
COLLABORATIVE RESEARCH: ETBC: AMAZON INFLUENCE ON THE ATLANTIC CARBON EXPORTS FROM NITROGEN FIXATION BY DIATOM SYMBIOSES	47.050	OCE-1133277		50,199
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	RD4	49,798
25 MILLION YEARS OF MANTLE UPWELLING BELOW THE MID ATLANTIC RIDGE: THE VEMA LITHOSPHERIC SECTION REVISITED	47.050	OCE-0551288		49,114
AN ONLINE REGISTRY FOR UNIQUE SAMPLE IDENTIFICATION IN THE EARTH SCIENCES	47.050	OCE-05-52123		48,705
COLLABORATIVE RESEARCH: EVALUATING THE ROLES OF MELT MIGRATION AND MANTLE FLOW IN LITHOSPHERIC EVOLUTION: THE COLORADO P	47.050	EAR-0952202		48,238
COLLABORATIVE RESEARCH: MICROSTRUCTURAL AND MODELING CONSTRAINTS ON STRAIN LOCALIZATION, LPO DEVELOP	47.050	EAR-07-39010		45,887
COLLABORATIVE RESEARCH: P2C2 - RECONSTRUCTING NORTH PACIFIC CLIMATE VARIABILITY USING A MULTI-MILLENNIAL TREE RING RESOU	47.050	ATM-0902749		45,003
MAPPING SAHARAN DUST FLUXES THROUGH THE ONSET AND TERMINATION OF THE AFRICAN HUMID PERIOD IN A TRANSECT OF AFRICAN MARGI	47.050	OCE-1030784		44,920
RAPID COLLABORATIVE RESEARCH: OFF-SHORE COSEISMIC EFFECTS OF THE PORT AU PRINCE	47.050	OCE-1028045		44,682
TESTING THE PROCESSOF MELT DIFFERENTIATION IN THE MEXICAN VOLCANIC BELT	47.050	EAR-07-38707		44,005
COLLABORATIVE RESEARCH: DIAPYCNAL MIXING ON THE EAST PACIFICRISE	47.050	OCE-0728766		41,340

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COLLABORATIVE RESEARCH: COMBINED SEISMOLOGICAL AND GEODETIC CONSTRAINTS ON A 3-D MANTLE STRUCTURE	47.050	EAR-1112216		40,860
STUDIES RELATED TO ESTABLISHING A VALID RADIOCARBON VENTILATION RATE FOR THE GLACIAL OCEAN	47.050	OCE-04-35703		40,779
COLLABORATIVE RESEARCH: MONITORING INFLATION AT AXIAL SEAMOUNT	47.050	OCE-07-26093		39,473
THE LDEO DEEP-SEA REPOSITORY AND THE CURATING AND MAINTENANCE OF THE SEDIMENT LIBRARY AND DREDGE COLLECTION	47.050	OCE-07-51761		39,114
SGER: A SEAFLOOR CAMERA SYSTEM FOR FLOW RATE MEASUREMENTS IN BLACK SMOKER VENTS	47.050	OCE-0917955		38,981
COLLABORATIVE RESEARCH: P2C2-RECONSTRUCTING TROPICAL PACIFIC CLIMATE VARIABILITY AND MONSOON SYSTEM	47.050	ATM-0823617		38,637
COLLABORATIVE RESEARCH: TIMING AND STRUCTURE OF THE LAST GLACIAL MAXIMUM AND TERMINATION IN SOUTHERN PERU: IMPLICATIONS	47.050	EAR-1003427		38,240
COLLABORATIVE RESEARCH: FAULTING PROCESSES DURING EARLY-STAGE RIFTING: ANALYSIS OF AN UNUSUAL EARTHQUAKE SEQUENCE IN NOR	47.050	OCE-1049620		37,858
COLLAB RES: VARIATIONS & TRENDS IN FALL PRECIPITATION OVER THE CENTRAL UNITED STATES: ISSUES OF PHYSICAL MECHANISMS, CIR	47.050	ATM-0739983		37,220
COLLABORATIVE RESEARCH: A SOUTHERN MID-LATITUDE PERSPECTIVE ON THE LAST ICE AGE BASED ON BE-10 MORaine CHRONOLOGIES	47.050	EAR-0745781		35,358
PROFESSIONAL DEVELOPMENT TO IMPROVE THE SPATIAL THINKING OF EARTH SCIENCE TEACHERS AND STUDENTS	47.050	GEO-1034994		34,868
FIRST COMPREHENSIVE SAMPLING OF THE SHONA AND DISCOVERY SEAMOUNT CHAIN, SOUTH ATLANTIC-PLUME VERSUS	47.050	OCE-0738437		34,597
MULTI-SCALE CLIMATE INFORMATION FOR AGRICULTURAL PLANNING IN SOUTHEASTERN SOUTH AMERICA FOR COMING DECADES	47.050	AGS-1049066		34,145
COLLABORATIVE RESEARCH: STRUCTURE AND COMPOSITION OF OCEANIC LITHOSPHERE AND THE LITHOSPHERE/ASTHENOSPHERE BOUNDARY	47.050	OCE-0928270		33,170
CMG RESEARCH: ANALYSIS AND APPLICATION OF XFEM TO DYNAMIC RUPTURE PROCESSES IN EARTHQUAKE	47.050	EAR-0934736		31,389
TESTING THE REALIABILITY OF PALEO VENTILATION ESTIMATES	47.050	OCE-1029936		30,649
WORKSHOP ON PALEO-OCEAN ACIDIFICATION AND CARBON CYCLE PERTURBATION EVENTS AUGUST 26-28 2010	47.050	OCE-1032374	PAR	29,116
GEOMAPAPP MINI-LESSONS AND THE K-12 CLASSROOM: TRANSFORMATIVE RESSOURCES FOR THE 21ST CENTURY EDUCATOR	47.050	GEO-1035036		28,966
THE ROLE OF FAULT STRANDS AND ROUGHNESS IN FAULT AND EARTHQUAKE MECHANICS	47.050	EAR-0943939		28,077
CONSTRAINTS ON THE COMPOSITION OF THE SUBDUCTING OCEANIC CRUST IN THE NORTHWEST PACIFIC OCEAN BASIN	47.050	OCE-0961359		27,851
COLLABORATIVE RESEARCH: GEOMORPHIC TRANSPORT LAWS, LANDSCAPE EVOLUTION, AND FRACTIONAL CALCULUS	47.050	EAR-0823953		27,838
THE SR-ND-PB-HF ISOTOPE EVOLUTION OF THE MARIANA ISLAND ARC	47.050	EAR-0840848		26,926
LATE QUATERNARY VARIABILITY OF THE AGULHAS THERMOHALINE VALVE FROM ND ISOTOPES IN PLANKTONIC FORAMINIFERA	47.050	OCE-1031198		26,406
VALIDATION OF THE B/CA PROXY FOR SURFACE SEAWATER PH AND APPLICATION TO MEASURE ANTHROPOGENIC OCEAN	47.050	OCE-07-51764		26,020
COLLABORATIVE RESEARCH: LOCALLY-CONSTRAINED CLIMATE FIELD RECONSTRUCTIONS OF THE LAST MILLENNIUM: METHODS AND APPLICATIO	47.050	AGS-0902436		25,654
COLLABORATIVE RESEARCH: GEOMAGNETIC VARIABILITY, PALEONVIRONMENTAL, CHANGE, AND A TUNED GEOLOGIC TIMESCALE FROM PACIFIC	47.050	OCE-0961464		25,488
COLLABORATIVE RESEARCH ON QUANTIFYING THE IMPACTS OF ATMOSPHERIC AND LAND SURFACE HETEROGENEITY AND SCALE ON SOIL MOISTU	47.050	AGS-1035843		24,654
OCEAN ACIDIFICATION- CATEGORY 1 CALIBRATION AND APPLICATION OF THE BORON ISOTOPE SEAWATER - PH INDICATOR IN DEEP-WATER C	47.050	OCE-1041133		23,374
COLLABORTIVE RESEARCH: ACQUISITION OF NEW INSTRUMENTATION FOR GEOCHEMICAL STUDIES IN THE EARTH AND ENVIRONMENTAL SCIENCE	47.050	EAR-0746273		23,131
DOUBLE CHOOZ EXPERIMENT @ REACTOR- FRANCE: OFF CAMPUS	47.050	PHY 10-67934	EP2	22,880
COLLABORATIVE RESEARCH: A NEW METHOD FOR UNDERSTANDING MECHANISMS OF ICE SHEET DEMISE USING MARRIED GENERAL CIRCULATION	47.050	ATM-0753868		22,288
TRIASSIC-JURASSIC MASS EXTINCTION CAUSED BY VOLCANISM? BIO- AND MAGNETOSTRATIGRAPHIC TESTS IN EASTER	47.050	EAR-07-53496		22,247
COLLABORATIVE RESEARCH: GEOCHEMISTRY AND TECTONICS OF CRETACEOUS GATEWAY CLOSURE IN THE CENTRAL AMERICAN ISTHMUS	47.050	EAR-1019327		20,963
CONSTRAINING THE PAST AND FUTURE OCEAN SINK OF ANTHROPOGENIC CARBON WITH OBSERVATIONS	47.050	OCE-1060804		20,856
BOUNDARY SOURCES AND SINKS OF 230TH, 232TH AND 231PA IN THE NW PACIFIC	47.050	OCE-1029211		20,597
PARTIAL SUPPORT FOR US PARTICIPATION IN A WORKSHOP GEOLOGICAL CARBON CAPTURE & STORAGE IN A MAFIC AND ULTRAMAFIC ROCKS	47.050	OCE-1059175		20,413
WORKSHOP PROPOSAL: RECOVERING UNCOMPROMISED SAMPLES OF AQUIFER SANDS WITH IN-SITU GROUNDWATER FROM UP TO 300-M DEPTH IN	47.050	EAR-1105148		18,570

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SCHOOL-BASED ECOLOGY AND ENVIRONMENTAL DISCOVERIES (SEEDS)	47.050	GEO-1035037		18,480
ACCOMPLISHMENT BASED RENEWAL: TEMPORAL EVOLUTION OF HYDROTHERMAL AND VOLCANIC PROCESSES AT THE EAST PACIFIC RISE FROM MI	47.050	OCE-0961594		17,778
PALEOCLIMATE SHOCKS: ENVIRONMENTAL VARIABILITY, HUMAN VULNERABILITY, AND SOCIETAL ADAPTATION DURING THE LAST MILLENNIUM	47.050	GEO-0908971	PAR	16,920
COLLABORATIVE RESEARCH: HYDROLOGICAL VARIABILITY DURING THE LAST MILLENIUM FROM HIGH RESOLUTION PROXIES	47.050	AGS-1003417		16,398
REU SITE: RESEARCH EXPERIENCE FOR UNDERGRADUATES: ANALYZING GLOBAL DATABASES	47.050	OCE-1003931		16,040
A LEADERSHIP WORKSHOP TO MEET THE CHALLENGE OF GLOBAL CLIMATE CHANGE	47.050	GEO-0937461		15,836
THE CONTROL OF PHOTOSYNTHETIC QUANTUM YIELD OF PHYTOPLANKTONBY LIGHT INTENSITY AND DIAPYCNAL NUTRIENT FLUX	47.050	OCE-05-50725		15,441
A NEXT-GENERATION INTEGRATED DATA MANAGEMENT SYSTEM FOR RIDGE2000 AND MARGINS	47.050	OCE-0623861		14,397
COLLABORATIVE RESEARCH: BASIN EVOLUTION ALONG CONTINENTAL TRANSFORMS: NESTED HI-RESOLUTION MULTICHANNEL SURVEY IN THE MA	47.050	OCE-0328119	SUP	13,652
COLLABORATIVE RESEARCH: SOUTHERN OCEAN AIR-SEA CO2 EXCHANGE	47.050	OCE-06-47667		11,519
DEVELOPMENT AND TESTING OF A SHIELDED OCEAN-BOTTOM SEISMOMETER TO REDUCE SEAFLOOR LOW-FREQUENCY NOISE	47.050	OCE-0825077		11,417
U-SERIES DISWQUILIBRIUM IN WEDDELL SEA SEDIMENTS: RATES OF ICEBERG DISCHARGE AND IMPACT ON GLOBAL OCEANS	47.050	EAR-0958276		11,140
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	GJ2	10,757
MICROBOONE EXPERIMENT @ FERMILAB, ILLINOIS: OFF CAMPUS	47.050	PHY 10-67934	EP3	10,006
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474		10,004
HSD: COLLABORATIVE RESEARCH: SOCIAL NETWORKS AS AGENTS OF CHANGE IN CLIMATE CHANGE POLICY MAKING	47.050	BCS-0826892		9,950
TESTING MODELS OF MAGMA MOVEMENT ALONG THE EAST PACIFIC RISE USING COMBINED GEODITIC AND NUMERICAL EXPERIMENTS	47.050	OCE-0426575	PR	9,845
TESTING PREDICTIONS FROM THE CASCADE AND PRE-SEISMIC SLIP MODELS FOR FORESHOCK OCCURRENCE WITH THE HIGH PRECISION CATALO	47.050	EAR-0943771		9,764
COLLABORATIVE RESEARCH: TESTING ORBITAL FORCING OF TERRESTRIAL GREENHOUSE CLIMATE? U/PB ZIRCON GEOCHRONOLOGY..	47.050	EAR-07-20086		9,503
REU SITE: ANALYZING GLOBAL DATABASES	47.050	OCE-06-49024		9,112
SHINE: OBSERVATIONALLY CONSTRAINING THE PHYSICAL PROCESSES THAT GENERATE THE SOLAR WIND	47.050	AGS-1060194		8,634
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	EC7	7,985
GEOINFORMATICS FACILITIES SUPPORT: INTEGRATED DATA COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: THE MARIEN GEOSCIENCE DAT	47.050	OCE-0950477	PAR	7,852
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.050	SBE-02-45014	A	7,819
COLLAB RSCH: SEISMIC MEASUREMENTS OF MAGMA FLUX, ARC COMPOS ITION, & LOWER-PLATE SERPENTINIZATION IN THE CENTRAL AMER...	47.050	OCE-05-20378		7,549
BIOGEOCHEMICAL FLOWS OF NITROGEN IN A TROPICAL UPWELLING SYSTEM (ACARIACO TIME SERIES PROJECT)	47.050	OCE-06-23609		7,029
COLLABORATIVE RESEARCH: RECONSTRUCTING ENSO WITH INDIVIDUAL FORAMINIFERA	47.050	OCE-07-27428		6,806
VOLATILES IN TONGA ARC MAGMAS	47.050	OCE-0839061		6,320
MARGINS THEORETICAL AND EXPERIMENTAL INSTITUTE: VOLATILES IN THE SUBDUCTION FACTORY	47.050	OCE-0849289		6,044
2009 OCEANOGRAPHIC INSTRUMENTATION	47.050	OCE-0943667		5,018
SHIPBOARD SCIENTIFIC SUPPORT EQUIPMENT 2008	47.050	OCE-0825670		4,312
RECONSTRUCTING THE ROLE OF CO2 IN CLIMATE CHANGE THROUGHOUT THE CENOZOIC STEP 1: THE MID-PLEISTOCENE TRANSITION	47.050	OCE-06-23621		3,959
PETROLOGIC STUDY OF PERIDOTITE CARBONATION IN OMAN:TEMPETURE TIMING AND FLUID COMPOSITION	47.050	EAR-1049905		3,405
PROFESSIONAL DEVELOPMENT TO IMPROVE THE SPATIAL THINKING OF EARTH SCIENCE TEACHERS AND STUDENTS	47.050	GEO-1034994	PAR	3,342
CAREER: THE ATMOSPHERIC CHEMISTRY OF ICE AND SNOW.	47.050	ATM-0845043	PAR	3,125
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON, AND TRACER MEASUREMENTS	47.050	OCE-02-23951	SC1	2,778
SCHOOL-BASED ECOLOGY AND ENVIRONMENTAL DISCOVERIES (SEEDS)	47.050	GEO-1035037		2,778

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WORKSHOP ON PALEO-OCEAN ACIDIFICATION AND CARBON CYCLE PERTURBATION EVENTS AUGUST 26-28 2010	47.050	OCE-1032374		2,413
ESTABLISHING A LONG-TERM GEODETIC NETWORK AT THE EAST PACIFIC RISE RIDGE 2000 INTEGRATED STUDIES SITE	47.050	OCE-06-47840		1,998
DEVELOPMENT AND TESTING OF "GEOSCIENCE DATA PUZZLES": LOW- BARRIER-TO-ENTRY DATA-USING ACTIVITIES	47.050	GEO-0608057		1,750
COLLABORATIVE RESEARCH: THE GENESIS OF PRIMITIVE LAVAS FROM THE WESTERN ALEUTIONS	47.050	OCE-07-27013		1,610
STUDIES OF GLOBAL AND REGIONAL SEISMICITY	47.050	EAR-07-10842		1,523
RAPID COLLABORATIVE RESEARCH: OFF-SHORE COSEISMIC EFFECTS OF THE PORT AU PRINCE	47.050	OCE-1028045	PAR	1,328
COLLABORATIVE RESEARCH: CONSTRAINING ARC PROCESS THROUGH COMPREHENSIVE GEOCHEMICAL STUDY OF THE CHILEAN SOUTHERN VOLCANI	47.050	EAR-0948466		1,229
COLLABORATIVE RESEARCH: DYNAMICS OF SUBTROPICAL HUMIDITY	47.050	ATM-05-42736		1,125
CONSTRAINING EARLY-STAGE RIFTING THROUGH RAPID RESPONSE TO THE LAKE MALAWI EARTHQUAKE SEQUENCE OF DECEMBER 2009	47.050	EAR-1019379		1,043
COLLAB RSCH: COREWALL-INTEGRATED ENVIRONMENT FOR INTERPRETATION OF GEOSCIENTIFIC DATA FROM SEDIMENT & CRYSTAL CORES	47.050	OCE-06-01883		919
CAREER: INVESTIGATION OF BUBBLE DYNAMICS IN MICROSCALE GEOMETRIES, WITH APPLICATIONS IN BIOENGINEERING & MICROFLUID	47.050	CTS-06-22862		911
COLLAB RSCH: MAPPING UPPER-MANTLE ANISOTROPY IN WESTERN U.S.CONSTRAINTS ON CRUST-MANTLE COUPLING	47.050	EAR-05-45777		900
COLLABORATIVE RESEARCH: UNDERSTANDING MADDEN-JULIAN OSCILLATION (MJO) INITIATION WITH DYNAMICS OF THE MADDEN JULIAN OSCI	47.050	AGS-1062206		813
MARGINS SUCCESSOR PLANNING WORKSHOP	47.050	OCE-0943445		801
SEDDB, THE ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY CONTINUED OPERATION AND DEVELOPMENT	47.050	OCE-0826197	PAR	666
CAREER: CHARACTERIZING THE UNCERTAINTY IN PROJECTION OF CLIMATE CHANGE IN THE SEMI-ARID TROPICS BASED ON THE MOIST STATI	47.050	AGS-0955372		660
COLLISION OF THE BURMA ARC ACCRETIONARY PRISM AND FOLDBELT WITH THE GANGES-BRAHMAPUTRA DELTA IN BANGLADESH	47.050	EAR-06-36037		575
GEOMAPAPP MINI-LESSONS AND THE K-12 CLASSROOM: TRANSFORMATIVE RESSOURCES FOR THE 21ST CENTURY EDUCATOR	47.050	GEO-1035036	PAR	335
SEDB: AN ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY	47.050	OCE-04-53958		89
EXPERIMENTAL PETROLOGY OF PLANETARY MATERIALS	47.050	EAR-06-09108		2
SEDB: AN ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY	47.050	OCE-04-53958	CSN	-1
SCIENTIFIC DRILLING INTO THE SAN ANDREAS FAULT: RARE GAS "AGES" OF MATRIX FLUIDS IN DRILL CORE AND F	47.050	EAR-07-45965		-1
COLLABORATIVE RES: HIGH-PRECISION TELESEISMIC RELOCATION AND TOMOGRAPHY FOR M9 & M8.7 SUMATRA GREAT	47.050	EAR-06-08739		-59
A LEADERSHIP WORKSHOP TO MEET THE CHALLENGE OF GLOBAL CLIMATE CHANGE	47.050	GEO-0937461	PAR	-312
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	WW8	-821
COLLAB RES: COSEISMIC SLIP, AFTERSLIP, & VISCOUS RELAXATION IN RESPONSE TO GREAT 2006-2007 KURIL EARTHQUAKES: EVIDENCE F	47.050	EAR-0809718		-1,743
AN EXPLORATIONOF THE ROLE OF MOUNTAIN RIVER SINUOSITY IN LANDSCAPE DYNAMICS	47.050	EAR-06-17557		-3,070
COLLABORATIVE RESEARCHH: UNDERSTANDING TIDAL RESONANCES IN THE PRESENT-DAY AND ICE-AGE OCEANS	47.050	OCE-06-23611		-6,896
OCEANOGRAPHIC INSTRUMENTATION 2010	47.050	OCE-1016187		-6,989
COLLABORATIVE RESEARCH: GLOBAL ESTIMATES OF PAST AND FUTURE UPTAKE OF ANTHROPOGENIC CARBON BY THE OCEAN	47.050	OCE-06-23366		-8,327
DIAGNOSING THE CLIMATIC CAUSE AND CONSEQUENCES OF SNOW DEPTH VARIABILITY	47.050	EAR-0808975		-10,229
				24,892,651

Computer and Information Science and Engineering

OPTICAL RECONSTRUCTION OF CORTICAL CONNECTIVITY	47.070	IIS-0904353		321,328
IPY/ASEP COLLABORATIVE INTERNATIONAL RESEARCH: AMUNDSEN SEA INFLUENCE ON WEST ANTARTIC ICE SHEET STABILITY AND SEA...	47.070	ANT-0632282		262,193
HCC: MEDIUM: COLLABORATIVE RESEARCH:GENERATING EFFECTIVE DYNAMIC EXPLANATIONS IN AUGMENTED REALITY	47.070	IIS-0905569		235,658
PA-DA-T: DESIGN AND TOOLS FOR EASY-TO-PROGRAM MASSIVELY PARALLEL ON-CHIP SYSTEMS; DERIVING SCALABILITY THROUGH ASYNCHRON	47.070	CCF-0811504		222,378

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RI: SMALL: AN ADVANCED LEARNING PARADIGM: LEARNING USING HIDDEN INFORMATION	47.070	IIS-0916200		215,840
COLLABORATIVE RESEARCH: EMT/MISC: MAKING MOLECULAR COMPUTATION PRACTICAL FOR BIODETECTION APPLICATIONS	47.070	CCF-0829793		212,848
SHF: MEDIUM: POWER-ADAPTIVE, EVENT-DRIVEN DATA CONVERSION AND SIGNAL PROCESSING USING ASYNCHRONOUS DIGITAL TECHNIQUES	47.070	CCF-0965606		199,166
TC: SMALL: EXPLOITING SOFTWARE ELASTICITY FOR AUTOMATIC SOFTWARE SELF-HEALING	47.070	CNS-0914845		180,129
NETS: SMALL: TOWARD ALL VIDEOS ON DEMAND	47.070	CNS-1017934		173,840
CT-T: ENABLING COLLABORATIVE SELF-HEALING SOFTWARE SYSTEMS	47.070	CNS-06-27473		148,879
CYBERGRID NETWORKS - CYBER-ENABLED GLOBAL RESEARCH INFRASTRUCTURE FOR DESIGN NETWORKS	47.070	IIS-09043069		147,256
AF: SMALL: RESEARCH ON EQUILIBRIA, FIXED POINTS, ADN APPROXIMATION	47.070	CCF 1017955		143,786
NETSE: MEDIUM: ENERGY HARVESTING ACTIVE NETWORKED TAGS - ENHANT	47.070	CCF-0964497	KYM	142,035
ADVANCED SIGNAL PROCESSING FOR HIGH-SPEED OPTICAL FIBER SYSTEMS	47.070	CCF-07-26480		138,865
III: SMALL: AVOIDING CONTENTION ON MULTICORE MACHINES	47.070	IIS-0915956		138,243
COLLABORATIVE PROPOSAL: EMT/MISC: BEHAVIOR-BASED MOLECULAR ROBOTICS	47.070	NSF CCF-0829744		137,315
CT-ISG COLLABORATIVE RESEARCH: TAMPER PROOFING CRYPTOGRAPHIC OPERATIONS	47.070	CNS-0831094		134,508
INCREMENTAL WIZARD ABLATION: A NOVEL WOZ PARADIGM FOR LEARNING, TESTING AND EVALUATING HUMAN-MACHINE DIALOG...	47.070	IIS-0745369		133,661
NETSE: MEDIUM: ENERGY HARVESTING ACTIVE NETWORKED TAGS	47.070	CCF-0964497		131,218
III-COR-SMALL: BEYOND KEYWORD SEARCH: ENABLING DIVERSE STRUCTURED QUERY PARADIGMS OVER TEXT DATAB	47.070	IIS-0811038		122,220
ALGORITHMIC FOUNDATION: SMALL: COLLABORATIVE RESEARCH: THE POLYNOMIAL METHOD FOR LEARNING	47.070	CCF-0915929		121,816
DC:SMALL:EEGMINE: A DISTRIBUTED FRAMEWORK FOR LEARNING ON EEG DATA OBTAINED FROM EPILEPSY PATIENTS	47.070	IIS-0916186		120,569
EFFICIENT ALGORITHMS FOR PROBLEMS IN THE NEXT GENERATION OF COMPUTING	47.070	CCF-0728733		107,588
RI: EMAIL, SOCIAL NETWORKS, AND ORGANIZATIONS: INVESTIGATING HOW WE USE LANGUAGE TO CREATE AND NAVIGATE SOCIAL AND ORGAN	47.070	IIS-07-13548		103,427
SHF: MEDIUM: POWER-ADAPTIVE, EVENT-DRIVEN DATA CONVERSION AND SIGNAL PROCESSING USING ASYNCHRONOUS D	47.070	CCF-0965606	NOW	103,049
CORPUS-BASED NARRATIVE SEMANTICS	47.070	IIS-0935360		100,530
QUANTUM AND CLASSICAL COMPLEXITY OF CONTINUOUS PROBLEMS	47.070	CCF-0829537		98,506
GOALI: COLLABORATIVE RESEARCH: CPS: MEDIUM: METHODS FOR NETWORK-ENABLED EMBEDDED MONITORING AND CONTROL FOR HIGH-PERFORM	47.070	CNS-0931870		95,645
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A03	95,094
CAREER: MULTIREOLUTION FOUNDATIONS FOR PHYSICS-BASED COMPUTER ANIMATION AND INTERACTIVE ENGINEERING DESIGN	47.070	CCF-0643268		94,086
TC: SMALL: IMPROVING SYSTEM SECURITY THROUGH VIRTUAL LAYERED FILE SYSTEMS	47.070	CNS-1018355		92,412
RI: LARGE: COLLABORATIVE RESEARCH: RICHER REPRESENTATIONS FOR MACHINE TRANSLATION	47.070	IIS-0910778		89,209
HCC: SMALL: COLLABORATIVE RESEARCH: ASYNCHRONY AND PERSISTENCE FOR COMPLEX CONTACT SIMULATIONS	47.070	IIS-0916129		88,371
CIF: SMALL: REMOVING INHERENT INSTABILITIES IN COMMUNICATION NETWORKS	47.070	CCF-0915784		88,111
COLLABORATIVE RESEARCH: FIND: NETSERV-ARCHITECTURE OF A SERVICE-VIRTUALIZED INTERNET	47.070	CNS-0831912		82,312
CRI: CRD: COLLABORATIVE RESEARCH: LARGE ANALYTICS LIBRARY AND SCALABLE CONCEPT ONTOLOGY FOR MULTIMED	47.070	CNS-07-51078		81,241
CAREER: STRENGTHENING CRYPTOGRAPHY BY REDUCING ASSUMPTIONS ABOUT THE ADVERSARY	47.070	CCF-03-47839	SUP	79,996
COLLABORATIVE RESEARCH: CRI: IAD: A TESTBED FOR RESEARCH AND DEVELOPMENT OF NEXT GENERATION 9-1-1	47.070	CNS-07-51094		78,085
MEASURING THE SECURITY POSTURE OF LARGE FINANCIAL ENTERPRISES: AN EAGER PROPOSAL TO NSF CCF	47.070	CCF-0950373		76,352
CSR: MEDIUM: GUANYIN: A THOUSAND HANDS WITH A THOUSAND EYES FOR DISTRIBUTED SOFTWARE CHECKING	47.070	CNS-0905246	KAI	76,303
CT-ISG: PACKETSPREAD: PRACTICAL NETWORK CAPABILITIES	47.070	CNS-0714277		76,207

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CSR: MEDIUM: GUANYIN: A THOUSAND HANDS WITH A THOUSAND EYES FOR DISTRIBUTED SOFTWARE CHECKING	47.070	CNS-0905246	NIE	74,093
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A02	68,380
CROSS-LEVERAGING LEARNING THEORY WITH CRYPTOGRAPHY	47.070	CNS-07-16245		64,390
CSR: LARGE COLLABORATIVE RESEARCH: IM PROVING SOFTWARE RELIABILITY THROUGH SEMANTIC SIMILARITY BUG SEARCH	47.070	CNS-1012633		64,262
INFORMATION TECHNOLOGY RESEARCH: AN ELECTRONIC FIELD GUIDE:PLANT EXPLORATION AND DISCOVERY IN THE 21ST CENTURY	47.070	IIS-03-25867		61,078
III: SMALL: COLLABORATIVE RESEARCH: DETECTION AND PRESENTATION OF COMMUNITY AND GLOBAL EVENT CONTENT FROM SOCIAL MEDIA S	47.070	IIS-1017389		59,188
EMT: COMPUTATIONAL METHODS FO MAPPING GENEALOGY OF UNRELATED INDIVIDUALS FROM HIGH THROUGHPUT GENETI	47.070	CCF-0829882		58,738
RI-MEDIUM: COLLABORATIVE: CORPUS-BASED STUDIES OF LEXICAL, ACOUSTIC-PROSODIC, AND DISCOURSE ENTRAINMENT IN SPOKEN DIALOG	47.070	IIS-0803148		56,288
SMALL: AN INFORMATION ACCOUNTABILLITY ARCHITECTURE FOR DISTRIBUTED ENTERPRISE SYSTEMS	47.070	CNS-0914312		54,805
DATA-DRIVEN MUSIC UNDERSTANDING	47.070	IIS-07-13334		54,792
CROSS-LEVERAGING LEARNING THEORY WITH CRYPTOGRAPHY	47.070	CNS-07-16245	SER	53,076
COLLABORATIVE RESEARCH: A MULTIREPRESENTATIONAL & MULTILAYERED TREEBANK FOR HINDI/URDU	47.070	CNS-0751089		51,897
COLLABORATIVE RESEARCH: TRANSLATING PROSODY IN AN ENGLISH/ CHINESE LANGUAGE TUTORING SYSTEM	47.070	IIS-05-34568		51,161
CI-P:CREATION OF AN ANNOTATED REPOSITORY OF MULTILINGUAL AND MULTIGENRE CODE SWITCHED DATA FOR SEVERAL LANGUAGE PAIRS	47.070	CNS-0958440		47,990
CSR: LARGE COLLABORATIVE RESEARCH: IM PROVING SOFTWARE RELIABILITY THROUGH SEMANTIC SIMILARITY BUG SEARCH	47.070	CNS-1012633	GRA	45,327
CPA-CSA: PHOTONIC INTERCONNECTION NETWORKS FOR CHIP-MULTIPROCESSOR COMPUTING SYSTEMS	47.070	CCF-0811012	BER	43,327
CPS: SMALL: THE ROLES OF COMMUNICATION IN LANE MERGING SYSTEMS	47.070	CNS-1035178		42,944
ADIABATIC QUANTUM OPTIMIZATION, NP-COMPLETENESS AND ANDERSON LOCALIZATION	47.070	CCF-1017244		42,543
CPA-CSA: PHOTONIC INTERCONNECTION NETWORKS FOR CHIP-MULTIPROCESSOR COMPUTING SYSTEMS	47.070	CCF-0811012		36,339
GENI WORKING GROUP MEETINGS - OPT-IN	47.070	CNS-0822954		36,123
CSR: MEDIUM: GUANYIN: A THOUSAND HANDS WITH A THOUSAND EYES FOR DISTRIBUTED SOFTWARE CHECKING	47.070	CNS-0905246		34,000
CMOS VLSI DESIGN OF LOW POWER SCALABLE HETEROGENEOUS NETWORKS FOR MULTI-CORE SYSTEMS-ON-CHIP	47.070	CCF-05-41278	EE	33,148
CT-T: ENABLING COLLABORATIVE SELF-HEALING SOFTWARE SYSTEMS	47.070	CNS-06-27473	002	33,036
CACHE-AWARD DATABASE SYSTEMS ON MODERN MULTI-READING PROCESSORS	47.070	IIS-05-34389		31,230
COLLABORATIVE RESEARCH: CSR-CORE-EHS: PRECISION TIMED ARCHITECTURES	47.070	CNS-07-20292		29,405
CYBERGRID NETWORKS - CYBER-ENABLED GLOBAL RESEARCH INFRASTRUCTURE FOR DESIGN NETWORKS	47.070	IIS-0943069	PAR	29,378
SHF: SMALL: INTEGRATED INFRASTRUCTURES FOR ON-CHIP COMMUNICATION AND POWER MANAGEMENT IN MESSAGE-PASSING MULTICORE PROCE	47.070	CCF-1018236		28,526
TRUSTWORTHY MEDIA-BLIND PASSIVE MEDIA FORENSICS FOR CONTENT INTEGRITY VERIFICATION	47.070	CNS-07-16203		26,827
TEXT-TO-TEXT GENERATION FOR SUMMARIZING INFORMAL GENRES	47.070	IIS-05-34871		26,378
NETSE: MEDIUM: ENERGY HARVESTING ACTIVE NETWORKED TAGS - ENHANT	47.070	CCF-0964497	ZUS	26,202
CT-T: ENABLING COLLABORATIVE SELF-HEALING SOFTWARE SYSTEMS	47.070	CNS-0627473	TRA	25,464
RI: MEDIUM: COLLABORATIVE RESEARCH: RECOGNITION OF MATERIALS	47.070	IIS-0964429		24,606
COLLABORATIVE RESEARCH: EMT/MISC: MAKING MOLECULAR COMPUTATION PRACTICAL FOR BIODETECTION APPLICATION	47.070	CCF-0829793		24,108
NSF WORKSHOP ON HYBRID NEURO-COMPUTER VISION SYSTEMS	47.070	IIS-0958402		21,799
AF: SMALL: COLLABORATIVE RESEARCH: ONLINE SCHEDULING ALGORITHMS FOR NETWORKED SYSTEMS AND APPLICATIONS	47.070	CCF-0915425		21,319
NETSE: SMALL COLLABORATIVE RESEARCH: INTEGRATING REAL TIME TRAFFIC SIGNAL CONTROL WITH NETWORKING CONTROL STRATEGIES TO	47.070	CNS-0915026		18,521
CI-P:CREATION OF AN ANNOTATED REPOSITORY OF MULTILINGUAL AND MULTIGENRE CODE SWITCHED DATA FOR SEVERAL LANGUAGE PAIRS	47.070	CNS-0958440	PAR	17,893

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CRI: CRD: COLLABORATIVE RESEARCH: LARGE ANALYTICS LIBRARY AND SCALABLE CONCEPT ONTOLOGY FOR MULTIMEDIA RESEARCH	47.070	CNS-07-51078	REU	16,000
BUILDING DISTRIBUTED COMPUTATIONAL PLATFORMS ON TOP OF A NETWORK OF MULTIPLE CABLE SET-TOP DEVICES	47.070	CNS-06-44202		15,664
ANALYSIS AND DISPLAY OF SEMANTICS OF STRUCTURED AND UNSTRUCTURED VIDEOS	47.070	IIS-07-13064		15,030
TC: SMALL: COLLABORATIVE RESEARCH: PROTECTING NETWORKS FROM LARGE-SCALE PHYSICAL ATTACKS AND DISASTERS	47.070	CNS-1018379		13,779
NATIONAL CYBER DEFENSE INITIATIVE FINANCIAL INDUSTRY WORKSHOP	47.070	IIS-0946107		13,779
TC: SMALL: EXPLOITING SOFTWARE ELASTICITY FOR AUTOMATIC SOFTWARE SELF-HEALING	47.070	CNS-0914845	KER	9,280
SMALL GRANT FOR EXPLORATORY RESEARCH: CREATING A FUTURE INTERNET NETWORK ARCHITECTURE WITH A PROG	47.070	CNS-0837995		9,016
HRI: COLLABORATIVE PROPOSAL: INCREMENTAL WIZARD ABLATION: A NOVEL WOZ PARADIGM FOR LEARNING, TESTING AND EVALUATING HUMA	47.070	IIS-0745369	PAR	7,913
CAREER: INTELLIGENT FLEXIBLE ROBOTS FOR SAFE MANIPULATION OF ANATOMY	47.070	IIS-0844969		7,605
NETSE: MEDIUM: ENERGY HARVESTING ACTIVE NETWORKED TAGS - ENHANT	47.070	CCF-0964497	KIN	7,238
ACM MULTIMEDIA 2010 STUDENT TRAVEL SUPPORT	47.070	IIS-1042524		7,000
CMOS VLSI DESIGN OF LOW POWER SCALABLE HETEROGENEOUS NETWORKS FOR MULTI-CORE SYSTEMS-ON-CHIP	47.070	CCF-0541278	PAR	6,000
CAREER: MULTIREOLUTION FOUNDATIONS FOR PHYSICS-BASED COMPUTER ANIMATION AND INTERACTIVE ENGINEERING DESIGN	47.070	IIS-0643268	SUP	4,534
CRI:IAD- A PRESSING NEED FOR OBSERVATION, FACILITATION AND COMPUTER SUPPORT OF GROUP INTERACTION FOR ADVANCING UNITED ST	47.070	CNS-1037598		3,881
TRUSTWORTHY MEDIA-BLIND PASSIVE MEDIA FORENSICS FOR CONTENT INTEGRITY VERIFICATION	47.070	CNS-07-16203	ELL	3,096
RAPID UPDATES AND SNAPSHOT-BASED QUERIES USING MULTIPLE PROCESSORS	47.070	IIS-1049898		1,627
TRAVEL SUPPORT FOR ACM SIGMETRICS CONFERENCE 2011; SAN JOSE, CA JUNE 7-11	47.070	CNS-1136204		1,573
SYSTEMS MODELING & ANALYSIS/PARALLEL & DISTRIBUTED OPERATING SYS COLLAB RES/DESIGN, ANALYSIS/CONTROL	47.070	CNS-06-15126	COF	1,497
NSF CAREER: TRUSTWORTHY HARDWARE FROM UNTRUSTWORTHY COMPONENTS	47.070	CCF-1054884		1,137
EAGER: CORPUS-BASED NARRATIVE SEMANTICS	47.070	IIS-0935360	STI	792
ENZYMATIC NETWORKS FOR PATTERN RECOGNITION--BASIC PRINCIPLESAND APPLICATIONS	47.070	NSF CFF-0726586		434
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623		206
CT-IG: UNDERSTANDING CONTROL PLANE SECURITY: THE METHOD OF STRONG DETECTION	47.070	CNS-06-27590		-2
SYSTEMS MODELING & ANALYSIS/PARALLEL & DISTRIBUTED OPERATING SYS COLLAB RES/DESIGN, ANALYSIS/CONTROL	47.070	CNS-06-15126		-2
RESEARCH IN GAMES: FOXPOINTS AND APPROXIMATION	47.070	CCF-07-28736		-18
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A05	-206
INFORMATION REPRESENTATION AND COMPUTATION IN THE TIME DOMAIN	47.070	CCF-06-35252		-963
COLLAB RES: CSR-AES: INTERACTIVE PARALLEL PLATFORMS FOR MULTI-EXPERIMENT COMPUTATIONAL STUDIES	47.070	CNS-06-14770		-3,456
SOLUTION PHASE COMPUTATION WITH ENZYMATIc NETWORKS	47.070	IIS-0324845		-7,642
CELL DEATH BY BOOLEAN CALCULATIONS WITH ANTIBODIES	47.070	NSF CU52238902		-72,215
				7,071,433

Biological Sciences

CNH: FIRES IN WESTERN AMAZONIA: UNDERSTANDING AND MODELING THE ROLES OF CLIMATIC, SOCIAL, DEMOGRAPHIC, AND LAND USE CHAN	47.074	DEB-0909475		442,699
THE MOLECULAR BASIS OF CADHERIN-MEDIATED CELL ADHESION	47.074	MCB-0918535		208,185
CAREER: USING HIGH-THROUGHPUT SINGLE-MOLECULE ANALYSIS TO REVEAL THE MECHANISMS OF TARGET SITE LOCATION BY DNA REPAIR PR	47.074	MCB-0544638		148,979
COLLABORATIVE RESEARCH-BIOCHEMICALLY-CONSTRAINED GENOMIC SIGNAL PROCESSING (BIOGSP): A MULTI SCALE APPROACH TO REGULATOR	47.074	DBI-0850030		121,636
RCN: TRAITNET-COORDINATING TRAIT-BASED ECOLOGICAL AND EVOLUTIONARY RESEARCH	47.074	IOS-0639161		115,749

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MINIATURIZED CALORIMETRIC INSTRUMENTS FOR PROBING BIOMOLECULAR ENERGETICS	47.074	DBI-06-50020		108,359
COLLABORATIVE RESEARCH: FIRE, CLIMATE, AND FOREST HISTORY IN MONGOLIA	47.074	DEB-1049714		107,655
MECHANISMS FOR SENSORY PREDICTION IN A CEREBELLUM-LIKE CIRCUIT	47.074	IOS-1025849		96,253
ASSIGNMENT AND STRUCTURAL CHARACTERIZATION OF UNIFORMLY LABELED PROTEINS BY SOLID STATE NMR	47.074	MCB-07-49381		93,434
CAREER: THE ROLE OF RIBOSOME CONFORMATIONAL DYNAMICS ON THE MECHANISM OF PROTEIN SYNTHESIS	47.074	MCB-06-44262		92,898
UNDERSTANDING THE DYNAMIC CONNECTIONS AMONG STEWARDSHIP, LAND COVER, AND ECOSYSTEM SERVICES IN NEW YORK CITY'S URBAN FOR	47.074	DEB-0948451		85,252
EPIGENETIC REGULATION BY EGGLESS, A HISTONE METHYLTRANSFERASE, IN OOGENESIS AND DEVELOPMENT	47.074	IOS-0744814		79,754
SYNTHESIS OF THREE DECADES OF RESEARCH ON TREE GROWTH IN NORTHERN FORESTS IN RELATION TO GLOBAL CLIMATIC CHANGE	47.074	DEB-0948827		62,320
INTERACTIONS BETWEEN CHANGING CLIMATE AND TECHNOLOGICAL INNOVATIONS IN AGRICULTURAL DECISION-MAKING: IMPLICATIONS	47.074	EF-07-09701		61,374
ULTRA-EX: EXPLORING LINKAGES BETWEEN ECOSYSTEM SERVICES, PUBLIC HEALTH AND THE GREEN AREA FACTOR IN NEW YORK CITY	47.074	DEB-0949387		59,167
CAREER: USING ADVANCED STATISTICAL TECHNIQUES TO DECIPHER THE NEURAL CODE	47.074	IOS-06-41912		49,308
COLLABORATIVE RESEARCH: MECHANISMS INFLUENCING SEEDING RECRUITMENT AND ESTABLISHMENT IN A FRAGMENTED	47.074	DEB-0614339		40,431
DESCENDING INPUTS AND THE DECODING OF TEMPORALLY ENCODED SENSORY INFORMATION	47.074	IOS-0946833		37,875
COLLABORATIVE RESEARCH: ARABIDOPSIS 2010: FUNCTION/STRUCTURE	47.074	NSF 0738311		36,887
IPY: AUTOTROPHIC RESPIRATION IN A CHANGING ARCTIC CLIMATE: MECHANISTIC RESPONSES AND ECOSYSTEM CONSE	47.074	EF-0732664		34,678
COLLABORATIVE RESEARCH: CHARACTERIZATION OF LIPO-PEPTIDES FOR USE AS A BIO-DISPERSANTS TO CLEAN-UP OIL SPILLS	47.074	MCB-1059170		29,261
COLLABORATIVE RESEARCH: THE IMPACT OF ECONOMIC GLOBALIZATIONON HUMAN DEMOGRAPHY, LAND USE AND NATURAL SYSTEMS IN LATIN	47.074	EF-07-09606		26,410
UNDERSTANDING THE DYNAMIC CONNECTIONS AMONG STEWARDSHIP, LAND COVER, AND ECOSYSTEM SERVICES IN NEW Y	47.074	DEB-0948451	LDE	8,526
COLLABORATIVE RES: TESTING BIODIVERSITY-ECOSYSTEM FUNCTIONING RELATIONSHIPS IN AN ECOLOGICAL STOICHIOMETRY FRAMEWORK....	47.074	DEB-0618186		5,951
MODELING SUCCESSIONAL VEGETATION DYNAMICS IN WET TROPICAL FOREST AT MULTIPLE SPATIAL AND TEMPORAL SCALES: INTEGRATING NE	47.074	DEB-1050957		4,730
A MATHEMATICAL MODEL OF HIPPOCAMPAL NEUROGENESIS TO EXPLAIN THE COMPUTATIONAL INFLUENCE OF ADULT-BORN NEURONS ON BRAIN F	47.074	DBI-0905971		1,142
MOLECULAR EVENTS WITHIN THE NEURONAL GROWTHCONE	47.074	NSF CU08-5682		-128
				2,158,785

Social, Behavioral, and Economic Sciences

EARTH INSTITUTE: INDIVIDUAL AND GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-03-45840	EIS	314,724
TEMPORAL DISCOUNTING OF SOCIAL GOALS	47.075	SES-0820496		299,580
STRATEGIES OF VIOLENCE AND CHANGES IN WAR TERMINATION	47.075	BCS-0904791		191,627
CAREER: INTEGRATING NEUROIMAGING AND PATIENT STUDIES OF LEARNING DECISION MAKING	47.075	BCS-0955494		180,224
UNDERSTANDING AND IMPROVING ENVIRONMENTAL DECISIONS	47.075	SES-0951516		177,208
COLLABORATIVE RESEARCH: A MULTI-METHOD APPROACH TO STIGMA AND STATUS	47.075	BCS-0819436		137,068
EXPORTS AND WAGE PREMIA	47.075	SES-0721068		120,518
THE QUANDARY OF ENVIRONMENTAL RESEARCH: A HISTORY OF LEAD, CHILDREN AND SCIENTIFIC INVESTIGATION 1970-2000	47.075	SES-0750673		118,774
BENEFITS AND DRAWBACKS OF INDIVIDUAL AND GROUP DECISIONS: INSIGHTS FOR ENVIRONMENTAL DECISION MAKING	47.075	SES-07-20452		115,516
COLLABORATIVE RESEARCH: GEOGRAPHY, TRADE, AND PRICES	47.075	SES-0820462		113,316
DEVELOPMENT OF DYNAMIC RISKY DECISION MAKING: BEHAVIORAL PHENOMENA AND NEURAL UNDERPINNINGS	47.075	SES-0922743		108,721
TWO PROJECTS ON MARKET DESIGN	47.075	SES-1023818		106,180
AN INVESTIGATION INTO THE ACHILLES' HEEL OF CURRENCY PEGS	47.075	SES-1061711		106,180

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TOPICS IN DYNAMIC PANEL DATA ANALYSIS, TIME-VARYING INDIVIDUAL HETEROGENEITIES, AND CROSS-SECTIONAL DEPENDENCE	47.075	SES-0962410		106,179
RATIONAL INATTENTION, RANDOM CHOICE, AND DYNAMICS OF PRICE ADJUSTMENT	47.075	SES-0820438		83,775
COLLABORATIVE RESEARCH: PREDATORY LENDING, PREDATORY BORROWING, AND THE MORTGAGE CRISIS: EVIDENCE FROM LOAN-LEVEL DATA F	47.075	SES-0851428		80,397
IMPROVED SEMI-NONPARAMETRIC ESTIMATION AND TESTING BY MODIFIED LIKELIHOOD	47.075	SES-0961596		78,662
HSD: COLLABORATIVE RESEARCH: HUMAN-RELATED FACTORS AFFECTING EMERGING INFECTIOUS DISEASES	47.075	BCS-0826840		60,369
GAINING KNOWLEDGE FROM OTHER PATIENTS: STRUCTURING AND SEARCHING THE CONTENT OF HEALTH-RELATED WEB POSTS	47.075	BCS-1027886		60,245
CENTER FOR THE STUDY OF INDIVIDUAL AND GROUP DECISION MAKING UNDER CLIMATE UNCERTA	47.075	SES-03-45840		60,051
DMUU: INDIVIDUAL AND GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-03-45840	EIS	53,743
THE CONSEQUENCES OF MIGRATION FOR CHILD WELL-BEING IN SENDING AREAS: A LONGITUDINAL ANALYSIS IN MEXICO AND INDONESIA	47.075	SES-0921090		45,853
UNDERSTANDING AND IMPROVING ENVIRONMENTAL DECISIONS	47.075	SES-0951516	LAM	45,421
COLLABORATIVE RESEARCH: TRANSFORMATIONS IN POLITICAL PARTY ORGANIZATIONS AND THE RISE CANDIDATE-CEN	47.075	SES-0959200		43,302
POSTDOCTORAL FELLOWSHIP: DESENSITIZING TRAUMA SUFFERS	47.075	SES-1027431		42,372
MEASURING ETHNIC AND REGIONAL GROUP DIFFERENCES	47.075	SES-0818381		40,726
EDUCATION PRODUCTION AND PEER NETWORKS AMONG OUT-OF-SCHOOL CHILDREN INDIA	47.075	SES-0551333		40,333
APPLICATIONS OF TRANSPORTATION PROBLEMS AND STRONGLY NONLINEAR SYSTEMS OF PDE IN ECONOMICS	47.075	SES-05-32398		39,986
GOVERNMENT RESPONSES TO NETWORK FAILURES: THE CASE OF THE MANUFACTURING EXTENSION PARTNERSHIPS	47.075	SBE-0965187		39,454
ADMINISTRATIVE JUSTICE IN PUBLIC WELFARE BUREAUCRACIES	47.075	SES-0849193		39,033
NATURE-BASED TOURISM IN URBANIZING ECONOMIES: THE CASE OF INDIA'S PROTECTED AREAS	47.075	BCS-1029219	LDE	36,246
FAMILY AND SCHOOL INFLUENCES IN THE DETERMINATION OF CHILD OUTCOMES EVIDENCE FROM TWO SOURCES OF VARIATION	47.075	SES 08-19776		35,389
EARTH INSTITUTE INDIVIDUAL + GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-03-45840	KTZ	33,597
COLLABORATIVE RESEARCH: MULTICENTURY DROUGHT RECONSTRUCTIONS FROM GUATEMALA AND THE CONTEXT FOR PAST AND FUTURE HYDROCLI	47.075	BCS-0852652		30,973
ENHANCING THE METHODOLOGICAL REPERTOIRE OF HISTORICAL RESEARCH IN THE SOCIAL SCIENCES	47.075	SES-0818938		27,826
TOPICS IN STRATEGIC COMMUNICATION	47.075	SES-0965577		26,942
NETWORK DYNAMICS IN AN EMERGING DEMOCRACY	47.075	SES-06-16802		25,256
BENEFITS AND DRAWBACKS OF INDIVIDUAL AND GROUP DECISIONS: INSIGHTS FOR ENVIRONMENTAL DECISION MAKING	47.075	SES-07-20452	REU	22,732
LATENT SPACE MODELS FOR AGGREGATED RELATIONAL DATA IN SOCIAL SCIENCES	47.075	SES-1023176		21,168
CENTER FOR THE STUDY OF INDIVIDUAL AND GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-03-45840	ONE	18,865
SUPPLEMENT TO CTR FOR THE STUDY OF INDIVIDUAL AND GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-0345840	SUP	17,118
TPE 1-102170337: COLLABORATIVE RESEARCH: USE OF CLIMATE INFORMATION IN INTERNATIONAL NEGOTIATION FOR ADAPTATION RESOURCE	47.075	SES-1048946		16,900
DOCTORAL DISSERTATION IMPROVEMENT GRANT: CROSS-CULTURAL RESEARCH ON PSYCHIATRY, GENDER AND CHILDHOOD	47.075	BCS-0962441		14,981
DOCTORAL DISSERTATION RESEARCH: HIV PROGRAM SCALE-UP AND POLITICAL WORLDS IN LESOTHO	47.075	SES-1024097		14,883
MARKET DESIGN WITH FINANCIALLY CONSTRAINED AGENTS	47.075	SES-0721053		14,785
DOCTORAL DISSERTATION IMPROVEMENT GRANT: HEALING HEARTS AND TRAINING MINDS IN EL SALVADOR: PEDIATRIC HEART SURGERY MISSI	47.075	SES-1026733		14,433
DOCTORAL DISSERTATION RESEARCH IN DRMS: DISCOUNTING FUTURE LOSSES	47.075	SES-1024599		13,869
GROUP SIZE AND REPRODUCTIVE SUCCESS OF FEMAL AND MALE BLUE MONKEYS	47.075	BCS-1028471	OFF	11,156
FIRST DO NO HARM? THE EFFECTS OF TORT REFORM ON OUTCOMES AND PROCEDURES AT BIRTH	47.075	SES-06-17829		10,521
OFF CAMPUS	47.075	BCS-05-54747	OFF	9,940

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
COLLABORATIVE RESEARCH: IDENTIFICATION, ESTIMATION AND INFERENCE OF DSGE MODELS	47.075	SES-0962431		9,655
POPULATION DYNAMICS IN REAL TIME TRUST DILEMMAS	47.075	SES-06-37151	PSC	9,267
DOCTORAL DISSERTATION IMPROVEMENT GRANT: INTELLECTUAL PROPERTY AND THE CONNECTION OF INTANGIBLE AND	47.075	BCS-0921067		8,951
DOCTORAL DISSERTATION IMPROVEMENT: HABITAT MODIFICATION AND GENE FLOW IN AN ENDANGERED NEW WORLD PRIMATE	47.075	BCS-0847912		7,364
STRENGTHENING QUALITATIVE RESEARCH THROUGH METHODOLOGICAL INNOVATION & INTEGRATION: NETWORKS OF EXPERTISE & THE AUTISM	47.075	SES-07-19823		6,667
THE WELL-BEING OF MIGRANT CHILDREN AND CHILDREN LEFT BEHIND	47.075	SES-1027048		5,994
NATURE-BASED TOURISM IN URBANIZING ECONOMIES: THE CASE OF INDIA'S PROTECTED AREAS	47.075	BCS-1029219		4,831
COLLABORATIVE RESEARCH: USE OF CLIMATE INFORMATION IN INTERNATIONAL NEGOTIATION FOR ADAPTATION RESOURCES	47.075	SES-1048946-GER	GER	4,117
UNDERSTANDING PUBLIC OPINION AND POLICYMAKING USING MULTILEVEL REGRESSION AND POSTSTRATIFICATION	47.075	SES-1023189		4,092
UNDERSTANDING AND IMPROVING ENVIRONMENTAL DECISIONS - HUMAN SUBJECT SCOPE	47.075	SES-0951516	HUM	3,901
POPULATION DYNAMICS IN REAL TIME TRUST DILEMMAS	47.075	SES-06-37151		3,775
DOCTORAL DISSERTATION RESEARCH: VOLUNTARY FIRM PRACTICES AND PATHS TO REGULATION	47.075	SES-1002629		1,795
DOCTORAL DISSERTATION RESEARCH IN SCIENCE OF SCIENCE AND INNOVATION POLICY: FROM CYCLES TO SPIRALS: STRUCTURAL ANALYSIS	47.075	SBE-0965432		1,725
COLLECTIVE ACTION, RECIPROCITY AND KINSHIP IN BLUE MONKEY SOCIETY	47.075	BCS-05-54747		1,423
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.075	SBE-0245014	PAR	1,334
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.075	SBE-02-45014	APS	995
DOCTORAL DISSERTATION IMPROVEMENT GRANT: CIVIL WAR AND THE MATERIAL, SOCIAL AND AFFECTIVE CONSEQUENCES OF ISOLATION: THE	47.075	BCS 0819336		918
GROUP SIZE AND REPRODUCTIVE SUCCESS OF FEMAL AND MALE BLUE MONKEYS	47.075	BCS-1028471		872
NETWORK DYNAMICS IN AN EMERGING DEMOCRACY	47.075	SES-06-16802	DCS	744
VISUAL SPATIAL INDUCTION AND MANUAL BEHAVIOR	47.075	BCS-06-16654		278
HSD: COLLABORATIVE RESEARCH: SELF-CONTROL IN THE LIFE COURSE	47.075	BCS-06-24262		-2
COLLABORATIVE RESEARCH: MOTHERHOOD AND MEDICINE: AN HISTORICAL PERSPECTIVE ON HEALTH, FERTILITY AND	47.075	SES-0820135		-15
OPTIMAL TAXATION OF ENTREPRENEURIAL CAPITAL AND FINANCIAL ASSETS WITH PRIVATE INFORMATION	47.075	SES-06-17774		-104
				3,545,694

Education and Human Resources

TECHNOLOGY, RESEARCH AND ECOLOGY EXCHANGE STUDIES	47.076	DRL-0929796		237,072
IGERT: OPTICAL TECHNIQUES FOR ACTUATION, SENSING AND IMAGING OF BIOLOGICAL SYSTEMS	47.076	DGE-0801530	PAR	208,630
IGERT: SOLVING URBANIZATION CHALLENGES BY DESIGN - A NEW PHD PROGRAM BETWEEN ARCHITECTURE AND ENGINE	47.076	DGE-0903597	PAR	174,965
TECHNOLOGY, RESEARCH AND ECOLOGY EXCHANGE STUDIES	47.076	DRL-0929796	PAR	149,500
IGERT: SOLVING URBANIZATION CHALLENGES BY DESIGN - A NEW PHD PROGRAM BETWEEN ARCHITECTURE AND ENGINE	47.076	DGE-0903597		120,343
IGERT: OPTICAL TECHNIQUES FOR ACTUATION, SENSING AND IMAGING OF BIOLOGICAL SYSTEMS	47.076	DGE-0801530		110,272
COLLABORATIVE RESEARCH: BRIDGING BETWEEN TABLETOP MODELS AND THE EARTH SYSTEM	47.076	DRL-0909982		83,941
IGERT: SOLVING URBANIZATION CHALLENGES BY DESIGN - A NEW PHD PROGRAM BETWEEN ARCHITECTURE AND ENGINEERING	47.076	DGE-0903597	PAR	64,800
IGERT: GLOBALIZATION AND INTERNATIONAL DEVELOPMENT	47.076	DGE-0333418		23,321
IGERT: SOLVING URBANIZATION CHALLENGES BY DESIGN - A NEW PHD PROGRAM BETWEEN ARCHITECTURE AND ENGINEERING	47.076	DGE-0903597	SA2	16,628
COLLABORATIVE RESEARCH: SYNTHESIS OF RESEARCH ON THINKING AND LEARNING IN THE GEOSCIENCES	47.076	DRL-07-22268	PAR	12,250
YEAR 2: COLLABORATIVE RESEARCH: CONSTRUCTING MENTAL IMAGES OF GEOLOGIC STRUCTURES FROM FIELD OBSERVATIONS	47.076	DRL-0411823		9,704

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TESTING THE EFFECTS OF THE INAUGURATION OF THE FIRST AFRICAN AMERICAN PRESIDENT ON THE AFFIRMATION PROCESS	47.076	ORL-0918075		6,108
COLLABORATIVE RESEARCH: BRIDGING BETWEEN TABLETOP MODELS AND THE EARTH SYSTEM	47.076	DRL-0909982	PAR	4,684
IGERT: SOLVING URBANIZATION CHALLENGES BY DESIGN - A NEW PHD PROGRAM BETWEEN ARCHITECTURE AND ENGINE	47.076	DGE-0903597	SA1	2,067
				1,224,285
Polar Programs				
COLLABORATIVE RESEARCH: IPY GAMBIT: GAMBURSTEV GAMBURSTEV AEROGEOPHYSICAL MAPPING	47.078	ANT-0632292		362,940
COLLABORATIVE RES: A MODULAR APPROACH TO BUILDING AN ARCTIC OBSERVING SYSTEM FOR IPY AND BEYOND IN THE SWITCHYARD REGION	47.078	ARC-06-33878		286,541
COLLAB RES: BEST: NITROGEN SUPPLY FOR NEW PRODUCTION & ITS RELATION TO CLIMATIC CONDITIONS ON THE EASTERN BERING SEA...	47.078	ARC-06-12427		258,176
CONTINUED DEVELOPMENT OF THE AMBS AS AN INTEGRATED ONLINE RESOURCE FOR MARINE AND GEOPHYSICAL DATA FROM THE ANTARCTIC RE	47.078	ANT-0739330		242,605
COLLABORATIVE RESEARCH: SAMPLING THE OCEAN - SEA ICE INTERACTION IN THE PACIFIC CENTER OF THE ANTARC	47.078	ANT-0739509		212,661
COLLABORATIVE RESEARCH: HIGH-RESOLUTION STUDIES OF GLACIERS DYNAMICS AT TWO MAJOR OUTLET GLACIERS IN EAST GREENLAND	47.078	ARC-07-13970		209,854
COLLABORATIVE RESEARCH: ATMOSPHERE-OCEAN-ICE INTERACTION IN A COASTAL POLYNA	47.078	ANT-0739519		187,919
CAPE ADARE LONG-TERM MOORING (CALM)	47.078	ANT-0538148		147,778
LONG-TERM OBSERVATIONS IN THE SWITCHYARD REGION OF THE ARCTIC OCEAN AS PART OF THE ARCTIC OBSERVING NETWORK (AON)	47.078	ARC-1023529	ENG	142,016
TRACING GLACIAL-INTERGLACIAL CHANGES IN THE DUST SOURCE TO ANTARCTICA USING HELIUM ISOTOPES	47.078	ANT-06-36898		136,761
COLLABORATIVE RESEARCH: THE IMPACT OF STRATOSPHERIC OZONE DEPLETION/RECOVERY ON ANTARCTIC CLIMATE	47.078	ANT-0944063		131,088
VULNERABILITY OF THE ARCTIC MARGINAL ICE ZONE TO CHANGES IN DRIFTING ICE	47.078	ARC-0612455		128,142
CCEP-I: POLAR LEARNING AND RESPONDING (POLAR) CLIMATE PARTNERSHIP	47.078	ANT-1043271		123,333
IPY: SASSI MOORING ARRAY IN WESTERN ANTARCTIC PENINSULA	47.078	ANT-07-32656		95,729
SUBGLACIAL LAKES AND THE ONSET OF ICE STREAMING: RECOVERY LAKES	47.078	ANT-0636883		94,806
ROLE OF OCEAN HEAT IN CLIMATE CHANGE ON THE WESTERN ANTARCTIC PENINSULA	47.078	ANT-0636915		91,269
HISTORY OF THE EAST ANTARCTIC ICE SHEET SINCE THE MID-MIOCENE: NEW EVIDENCE FROM PROVENANCE OF ICE RAFTED DEBRIS	47.078	ANT-0944489		87,221
COLLABORATIVE RESEARCH: SURFACE PCO2 AND THE EFFECTS OF WINTER TIME OVERTURNING IN THE DRAKE PASSAGE	47.078	ANT-0636879		74,742
BIO-PHYSICAL VARIABILITY IN REGIONS OF THE SOUTHERN OCEAN WITH CONTRASTING CLIMATIC RESPONSE - TH	47.078	ANT-0836137		72,670
COLLABORATIVE RESEARCH: SINKING RATES AND NUTRITIONAL QUALITY OF ORGANIC MATER EXPORTED FROM SEA ICE; THE IMPORTANCE OF	47.078	ARC-1023348		66,666
COLLABORATIVE RESEARCH: PLESTOCENE EAST ANTARCTIC ICE SHEET HISTORY AS RECORDED IN SEDIMENT PROVENANCE AND CHRONOLOGY OF H	47.078	ANT-0944475		53,360
COLLABORATIVE RESEARCH: SAM'S CONTRIBUTION TO INCREASED OCEAN HEAT CONTENT ON THE CONTINENTAL SHELF OF THE WESTERN ANTAR	47.078	ANT-0944211		51,121
COLLAB RES: GAS TRANSFER THROUGH POLAR SEA ICE (GAPS)-MECHANISMS OF TURBULENCE PRODUCTION IN THE SEASONAL ICE ZONE AND I	47.078	ANT-0944643		41,170
COLLABORATIVE RESEARCH: HIGH-RESOLUTION STUDIES OF GLACIER DYNAMICS AT TWO MAJOR OUTLET GLACIERS IN EAST GREENLAND	47.078	ARC-1110322		41,152
COLLABORATIVE RES: A MODULAR APPROACH TO BUILDING AN ARCTIC OBSERVING SYSTEM FOR IPY AND BEYOND IN THE SWITCHYARD REGION	47.078	ARC-06-33878	ENG	40,759
ARCTIC OCEAN VISUALIZATION AND OUTREACH	47.078	ARC-1022544		39,525
CCEP-I: POLAR LEARNING AND RESPONDING (POLAR) CLIMATE PARTNERSHIP	47.078	ANT-1043271	PAR	37,615
DYNAMIC AND GEOCHEMICAL EVOLUTION OF THE LITHOSPHERIC MANTLE BENEATH THE WESTERN ROSS SEA AREA, ANTARCTICA	47.078	ANT-1043540		33,876
THE FATE OF THE ARCTIC (PERENNIAL) SEA ICE COVER: DECLINE AND RECOVER MECHANISMS	47.078	ARC-05-20496		32,916
COLLABORATIVE RESEARCH: EFFECTS OF WARMING INDUCED INCREASES IN SHRUB ABUNDANCE AND CHANGING SEASONALITY ON MIGRATORY SO	47.078	ARC-0908444		31,229
CCEP-I: POLAR LEARNING AND RESPONDING (POLAR) CLIMATE PARTNERSHIP	47.078	ANT-1043271	LDE	28,743
WORKSHOP SUPPORT FOR US ARCTIC GEOTRACES PLANNING AND INTERNATIONAL	47.078	ARC-1049400		25,001

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COLLABORATIVE RESEARCH IN IPY: ABRUPT ENVIRONMENTAL CHANGE IN THE LARSEN ICE SHELF SYSTEM, A MULTI-DISCIPLINARY...	47.078	ANT-07-32651		20,202
ESTIMATING THE SALINITY OF SUBLACIAL LAKES FROM EXISTING AEROGEOPHYSICAL DATA	47.078	ANT-06-36584		14,299
COLLABORATIVE RESEARCH: IPY GAMBIT: GAMBURSTEV GAMBURSTEV AEROGEOPHYSICAL MAPPING	47.078	ANT-0632292	CON	13,163
CCEP-I: POLAR LEARNING AND RESPONDING (POLAR) CLIMATE PARTNERSHIP	47.078	ANT-1043271	036	13,087
COLLAB RSCH: DECIPHERING THE DEEP ICE & THE ICE WATER INTERFACE OVER LAKE VOSTOK USING EXISTING RADAR DATA	47.078	ANT-0537752		12,758
COLLABORATIVE RESEARCH: EAST ANTARCTIC OUTLET GLACIER CONTRIBUTIONS TO THE ROSS SEA FROM CHRONOLOGY OF DETRITAL GRAINS	47.078	ANT-1043619		11,821
LONG-TERM CARBON STORAGE SHIFTS IN HIGH-LATITUDE PEATLANDS WITH PALEOCLIMATE CHANGE: LINKING PEATLAND MODELING WITH PALE	47.078	ARC-1022979		6,650
COLLABORATIVE RESEARCH: EFFECTS OF WARMING INDUCED INCREASES IN SHRUB ABUNDANCE AND CHANGING SEASONALITY ON MIGRATORY SO	47.078	ARC-0908444	SUP	4,254
COLLABORATIVE RESEARCH: NYC INTERNATIONAL POLAR WEEKEND 2008-2009	47.078	ARC-08-06509		4,105
POLAR WEEKEND FAIR BALTIMORE MD	47.078	ARC-0939293		3,921
COLLABORATIVE RESEARCH: IPY GAMBIT: GAMBURSTEV GAMBURSTEV AE REGEOPHYSICAL MAPPING	47.078	ANT-0632292	PAR	3,477
A STUDY OF ATMOSPHERIC DUST IN THE WAIS DIVIDE ICE CORE BASED ON SR-ND-PB-HE ISOTOPES	47.078	ANT-1043471		1,622
				3,718,743

International Science and Engineering (OISE)

LIFE ON A TECTONICALLY ACTIVE DELTA0CONVERGENCE OF EARTH SCIENCE AND GEOHAZARD RESEARCH IN BANGLADESH WITH EDUCATION AND	47.079	OISE-0968354		341,987
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM: ACCOUNT A - GENE	47.079	OISE-0968226		145,970
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM. ACCOUNT C	47.079	OISE-0968226	C	86,415
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM. ACCOUNT B - OFF	47.079	OISE-0968226	OFF	71,547
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM. ACCOUNT A - GENE	47.079	OISE-0968226	PAR	47,582
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM: ACCOUNT D	47.079	OISE-0968226	D	46,605
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM. ACCOUNT B - ON C	47.079	OISE-0968226	BON	30,030
PIRE: INTERNATIONAL CONSORTIUM FOR PROBING NOVEL SUPERCONDUCTORS WITH NEUTRONS, MUONS, PHOTONS AND STM. ACCOUNT A - GENE	47.079	OISE-0968226	AOF	19,799
TRAVEL SUPPORT FOR THE PARTICIPANTS OF US-KOREA-TAIWAN COLLABORATIVE INTERNATIONAL WINTER SCHOOL: BEYOND MOORE'S LAW	47.079	OISE 1012057		19,394
NON FERMI LIQUID PHYSICS AND QUANTUM CRITICAL PHENOMENA	47.079	DMR-1006282		4,406
DOCTORAL DISSERTATION ENHANCEMENT PROJECTS: MEASUREMENT OF SURFACE STABILITY OF GRAPHENE AT ELETTRA	47.079	OISE-0937683		3,576
LIFE ON A TECTONICALLY ACTIVE DELTA0CONVERGENCE OF EARTH SCIENCE AND GEOHAZARD RESEARCH IN BANGLADESH WITH EDUCATION AND	47.079	OISE-0968354	PAR	782
				818,093
				69,710,312

Total Direct Award Programs:

Pass-through Awards

National Science Foundation

CH2M HILL CONSTRUCTORS, INC	47.000	HILLCON 812787		NSF	307,339
CONSORTIUM FOR OCEAN LEADERSHIP	47.000	COCEANL T322A34		OCE-0652315	13,695
CH2M HILL CONSTRUCTORS, INC	47.000	HILLCON 812787	EQI	NSF	2,444
CONSORTIUM FOR OCEAN LEADERSHIP	47.000	COCEANL T322A34	SC1	OCE-0652315	97
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	47.000	SAO SP8-9003B		NAS8-03060	-654
					322,921

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Engineering Grants				
THE UNIVERSITY OF ARIZONA	47.041	UA Y503160	EEC-0812072	195,316
THE UNIVERSITY OF ARIZONA	47.041	UA Y503160 ZUS	EEC-0812072	53,408
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	47.041	MIT 5710002873	DBET-039511	41,144
BARNARD COLLEGE	47.041	BARNARD CU10-3470	CMMI-0928249	22,092
NATIONAL SCIENCE FOUNDATION	47.041	CBET-06-39274		19
				311,979
Mathematical and Physical Sciences				
UNIVERSITY OF TEXAS AT AUSTIN	47.049	UTA09-000882	CHE-0943957	448,253
NEW YORK UNIVERSITY	47.049	NYU F6373-01 PAR	DMS-06-02235	379,191
CALIFORNIA INSTITUTE OF TECHNOLOGY	47.049	CALTECH 7E-1085447	DMR0520457	304,849
CALIFORNIA INSTITUTE OF TECHNOLOGY	47.049	CALTECH #75ADV-10873 EQI	PHY-0823459	288,129
UNIVERSITY OF MARYLAND	47.049	UMARY Z477901	CHE-0628178	132,273
CALIFORNIA INSTITUTE OF TECHNOLOGY	47.049	CALTECH 7E-1085447 OFF	DMR0520457	125,825
UNIVERSITY OF CHICAGO	47.049	UCHICA 30193-B	AST-05-06648	113,186
PRINCETON UNIVERSITY	47.049	PU 00001733 EQI	PHY-0919363	66,491
RENSSELAER POLYTECHNIC INSTITUTE	47.049	RPI A12024	DMR-0642573	62,935
CALIFORNIA INSTITUTE OF TECHNOLOGY	47.049	CALTECH #75ADV-10873	PHY-0823459	49,753
UNIVERSITY OF CHICAGO	47.049	UCHICA 35535-A A	PHY-0707282	27,214
PRINCETON UNIVERSITY	47.049	PU 00001733	PHY-0919363	12,331
BARNARD COLLEGE	47.049	BARNARD CU09-3571	AST-0908365	8,873
UNIVERSITY OF CHICAGO	47.049	UCHICA 35535-A	PHY-0707282	3,151
UNIVERSITY OF MISSISSIPPI	47.049	UMISSIP NO. 10-04-06	PHY-0852870	2,447
IOWA STATE UNIVERSITY	47.049	IOWA ISU404-2007	DMR-0520547	-24,589
NEW YORK UNIVERSITY	47.049	NYU F6373-01	DMS-06-02235	-194,765
				1,805,547
Geosciences				
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 LS	OCE-03-52500	3,597,208
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 SS	OCE-03-52500	835,933
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 MA	OCE-03-52500	696,395
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 ENG	OCE-03-52500	605,256
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 DM	OCE-03-52500	561,360
OVERSEAS DRILLING LIMITED	47.050	ODL CU027319	OCE-03-52500	433,841
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 DM	OCE-03-52500	292,161
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 ENG	OCE-03-52500	174,709
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 MA	OCE-03-52500	148,788
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 SS	OCE-03-52500	136,882

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MARINE BIOLOGICAL LABORATORY	47.050	MBL 35559	ANT-0823101	71,504
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100723	OCE-0926848	67,416
BARNARD COLLEGE	47.050	BARNARD CU10-1681	PHY-0855627	56,859
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100708	SA-10-06	56,073
IODP MANAGEMENT INTERNATIONAL, INC	47.050	IODP MI-10-06	OCE-0432224	49,450
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 MMM	OCE-03-52500	49,383
RESEARCH CORPORATION OF THE UNIVERSITY OF HAWAII	47.050	HWAIRC Z927606	OCE-0935115	48,929
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100634	OCE-0726720	43,834
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC 149727	OCE-0939564	32,977
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 PIP	OCE-03-52500	32,820
FRANKLIN INSTITUTE	47.050	FRANKLIN CU10-1623	NSF 10-542	31,804
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO #119511 GRA	EAR-05-29922	30,000
RESEARCH CORPORATION OF THE UNIVERSITY OF HAWAII	47.050	HWAIRC Z899101	OCE-0648275	25,767
JOINT OCEANOGRAPHIC INSTITUTIONS, INCORPORATED	47.050	JSC 4-03 ITU	OCE-03-52500	25,712
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO #119511 STE	EAR-05-29922	25,052
UNIVERSITY OF MARYLAND	47.050	UMARY D150756	NSF 0902794	19,973
INCORPORATED RESEARCH INSTITUTION FOR SEISMOLOGY	47.050	IRIS 06-GSN	NSF-EAR-0552316	17,427
CONSORTIUM FOR OCEAN LEADERSHIP	47.050	COCEANL T318A34	OCE-0652315	14,056
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO #119511 SIM	EAR-05-29922	13,928
CONSORTIUM FOR OCEAN LEADERSHIP	47.050	OCEANL T317A34	OCE-0652315	13,609
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100627	OCE-0838923	12,793
CONSORTIUM FOR OCEAN LEADERSHIP	47.050	COCEANL T323A34	OCE-0652385	12,093
CONSORTIUM FOR OCEAN LEADERSHIP	47.050	COCEANL T317B34	OCE-0652315	12,093
UNIVERSITY OF TEXAS AT AUSTIN	47.050	UTEXASUS UTA09-00048	NSF	10,027
MARYLAND SCIENCE CENTER	47.050	MSC CU10-3475	NSF	9,521
CONSORTIUM FOR OCEAN LEADERSHIP	47.050	COCEANL T324A34	OCE-0652315	7,808
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100597	OCE-0622825	2,707
UNIVERSITY OF CALIFORNIA, SAN DIEGO	47.050	UCSD 10300702	OCE07-52970	2,552
CONSORTIUM FOR OCEAN LEADERSHIP	47.050	COCEANL T313A34	OCE-0652315	2,514
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO #119511 318	EAR-05-29922	1,483
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO #119511 319	EAR-05-29922	493
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO #119511 177	EAR-05-29922	185
				8,283,375
Computer and Information Science and Engineering				
COMPUTING RESEARCH ASSOCIATION	47.070	CIF-B-22	NSF 1019343	112,140
COMPUTING RESEARCH ASSOCIATION	47.070	CIF-B-161	1019343	109,708
COMPUTING RESEARCH ASSOCIATION	47.070	CRA CIF-A-471	NSF 0937060	103,524

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
BBN SYSTEMS AND TECHNOLOGIES	47.070	BBN CU08-9244	CNS-0714770	95,603
NATIONAL SCIENCE FOUNDATION	47.070	IIS-03-25399		71,132
COMPUTING RESEARCH ASSOCIATION	47.070	CRA CIF-471	0937060	58,482
COMPUTING RESEARCH ASSOCIATION	47.070	CRA CIF-B-87-1	CISE-1019343	49,003
VASSAR COLLEGE	47.070	VASSAR CU08-7825 STI	CNS-0708952	11,000
VASSAR COLLEGE	47.070	VASSAR CU08-7825	CNS-0708952	3,145
				613,737
Biological Sciences				
UNIVERSITY OF CALIFORNIA, SANTA BARBARA	47.074	UCSB KK9157	EF-0830117	139,975
BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH	47.074	BOYCE 09-03	IOS-0820405	118,680
UNIVERSITY OF PUERTO RICO	47.074	UPR CU09-3006	DEB-0620910	16,860
UNIVERSITY OF MARYLAND	47.074	UMARY Z365301	DEB1128370	16,799
				292,314
Social, Behavioral, and Economic Sciences				
NATIONAL BUREAU OF ECONOMIC RESEARCH	47.075	NBER 26-3523-00-0-79	SES-0962261	40,268
THE UNIVERSITY OF ARIZONA	47.075	UA P383101	SES-0752662	8,034
				48,302
Education and Human Resources				
UNIVERSITY OF COLORADO	47.076	UCOL 154-5825	DRL 0723909	136,123
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	47.076	RFCUNY #404340001A	DGE-02-21589	43,320
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	47.076	RFCUNY 40485-0001C	DGE-03-33415	37,035
				216,478
International Science and Engineering (OISE)				
BROWN UNIVERSITY	47.079	BROWNU 00000359	OISE-0968211	40,238
JOHNS HOPKINS UNIVERSITY	47.079	JH 200858925	CMMI-0624106	419
				40,657
Total Pass-through Programs:				11,935,310
Total: National Science Foundation				81,645,622
National Aeronautics & Space Administration				
Direct Awards				
National Aeronautics & Space Administration				
CONTINUED OPERATION OF THE EARTH OBSERVING SYSTEM DATA AND INFORMATION SYSTEM (EOSDIS) SOCIOECONOMIC DATA AND APPLICATIO	43.000	NNG08HZ11C		4,315,056
				4,315,056
Science				

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
INTERDISCIPLINARY RESEARCH ON CLIMATE SCIENCE & THE IMPACTS OF CLIMATE CHANGE	43.001	NNX10AU63A		1,993,440
INTERDISCIPLINARY GLOBAL CHANGE RESEARCH	43.001	NNX08AJ75A		1,487,005
GLORY MISSION	43.001	NNX07AP74A	CAI	930,708
NRA/RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES-2009	43.001	NNX10AT69G		835,302
MODELING AND OBSERVATIONS OF ATMOSPHERIC CIRCULATION AND CLOUD PROCESSES	43.001	NNX08AF15A		538,944
SOLAR RADIATION	43.001	NNX07AP74A	CAR	394,760
THE GENERAL ANTIPARTICLE SPECTROMETER EXPERIMENT (GAPS): A SEARCH FOR ANTIDEUTERON-GENERATED DARK MATTER	43.001	NNX09AC16G	EQI	382,305
MODELING OF OCEAN CIRCULATION & ATMOSPHERIC CHEMICAL SYSTEMS	43.001	NNX07AP74A		297,561
HUMAN ENDOTHELIAL CELLS IN 2-D AND 3-D SYSTEMS NON-CANCER EFFECTS AND SPACE-RELATED RADIATIONS	43.001	NASA NNJ05H137G		267,709
CLOUDS	43.001	NNX07AP74A	DEL	250,528
HZE-INDUCED MAMMARY CANCER DEVELOPMENT PROCESSES IN MURINE AND "HUMANIZED" MODELS, AND THEIR INFLUENCE ON RADIATION QUAL	43.001	NASA NNX09AE95G		224,583
MEASUREMENTS OF DIELECTRONIC RECOMBINATION AND ELECTRON IMPACT IONIZATION	43.001	NNX09AB25G		211,416
THE GENERAL ANTIPARTICLE SPECTROMETER EXPERIMENT (GAPS): A SEARCH FOR ANTIDEUTERON-GENERATED DARK MATTER	43.001	NNX09AC16G		197,665
DEVELOPMENT AND USE OF HUMAN 3-DIMENSIONAL TISSUE CULTURE MODELS FOR THE STUDY OF SPACE RADIATION EFFECTS ON THE DEGENER	43.001	NNX10AB38G		181,616
INTRASEASONAL VARIABILITY AND TROPICAL CYCLONES IN THE NASA GISS GENERAL CIRCULATION MODEL	43.001	NNX09AK34G		175,841
MIRNA PROFILING OF RADIATION RESPONSE	43.001	NASA NNX07AT41G		171,334
CLIMATE AND CHEMISTRY CHANGES FROM 1975 TO 2000 AS OBSERVED AND MODELED IN THE COUPLED CHEMISTRY-AEROSOL-CLIMATE GISS MO	43.001	NNX09AK32G		159,895
SCIENCE AND CALIBRATION SUPPORT FOR THE REFLECTION GRATING SPECTROMETER ON THE XMM-NEWTON OBSERVATORY	43.001	NNX07AN59G		157,098
CLIMATE DECISION SUPPORT IN THE GULF STATES: ASSESSING THE IMPACTS OF KEY UNCERTAINTIES IN END-TO-END	43.001	NNX10AO10G		147,501
NRA/RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES-2007	43.001	NNX09AF74G		145,510
MODELING GRAVITY FIELD AND EARTH DEFORMATION FROM MONSOONAL FLOODING IN BANGLADESH USING HYDROGRAPHIC, GRACE AND GPS DAT	43.001	NNX08AF13G		122,321
EQUIVALENCE PRINCIPLE IMPLICATIONS OF MODIFIED GRAVITY MODELS	43.001	NNX10AH14G		113,854
ANALYSIS OF ENSO DYNAMICS AND THERMODYNAMICS IN THE WESTERN PACIFIC WARM POOL - AN APPLICATION OF MULTI-SENSOR SATELLITE	43.001	NNX09AF55G		110,833
MULTISENSOR MAPPING OF SPATIAL AND TEMPORAL VARIABILITY OF LARGE RIVER PLUMES	43.001	NNX10AT99G		96,117
A SNAPSHOT SPECTROSCOPIC SURVEY OF THE HIGHEST LUMINOSITY QSOs: WINDS, REIONIZATION AND THE GALEX LEGACY	43.001	NNX09AF80G		95,376
GRAVITATIONAL-WAVE ASTRONOMY WITH LISA: PROBING THE POPULATION OF DISTANT SUPERMASSIVE BLACK HOLES	43.001	NNX08AH35G		94,313
DEVELOPMENT OF A SELF-CONSISTENT MODEL FOR SPATIAL AND TEMPORAL VARIATION OF SEA LEVEL INTEGRATING D	43.001	NNX11AC14G		90,761
SPATIAL AND TEMPORAL CHARACTERISTICS OF SEA SURFACE SALINITY FLUCTUATIONS AND LINKS TO THE MARINE HYDROLOGICAL CYCLE	43.001	NNX09AU68G		81,106
FIREBALL: FAINT INTERGALACTIC MEDIUM REDSHIFTED EMISSION BALOON (CO-I INSTITUTION PROPOSAL)	43.001	NNX08A070G		79,238
DYNAMIC MAGNETOSPHERES OF NEUTRON STARS	43.001	NNX10AI72G		73,630
THE SURFACE-BULK PARTITIONING OF AEROSOL ORGANIC MATERIAL	43.001	NNX09AF26G		72,797
MECHANISMS OF OCULAR CATARACTS	43.001	NASA NNJ05H138G		71,831
ERROR AND VARIABILITY IN SATELLITE SST DATA AND GLOBAL HIGH-RESOLUTION ANALYSES	43.001	NNX09AF44G		69,819
GREEN BANK TELESCOPE TIMING OF KEY FERMI PULSARS	43.001	NNX09AT88G		66,977
OPERATION ICE BRIDGE SCIENCE TEAM	43.001	NNX11AC22G		66,253
USING SATELLITE DATA TO DEVELOP ENVIRONMENTAL INDICATORS: AN APPLICATION OF NASA DATA PRODUCTS TO SUPPORT HIGH LEVEL DEC	43.001	NNX09AR72G		64,426
COLLISIONAL MECHANISM FOR GRB EMISSION	43.001	NNX10AO58G		60,466

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R&D Cluster, continued

Federal Grantor / Pass-through Grantor	CFDA	Project No.	Pass-through Contract Number	Expenditures
MODELING AND OBSERVATIONS OF ATMOSPHERIC CIRCULATION AND CLOUD PROCESSES	43.001	NNX08AF15A	SCO	50,499
ICE BRIDGE: IMAGING GROUNDING LINES WITH GRAVITY AND MAGNETICS	43.001	NNX09AR49G		49,803
SOBEL GRADUATE SUPPORT	43.001	NNX07AP74A	GRA	49,176
X-RAY AND GAMMA-RAY TIMING AND SPECTRAL STUDIES OF FIVE RADIO QUIET PULSARS	43.001	NNX09AU12G		47,782
THE INNER WORKINGS OF OUTER GASEOUS MATERIAL	43.001	NNX10AF72G		43,182
USE OF GRACE TO ESTIMATE TERRESTRIAL CARBON FLUXES	43.001	NNX10AP03G		42,965
THE STAR FORMATION HISTORY OF VOID GALAXIES	43.001	NNX10AH99G		40,745
ANTI-MAGNETARS: REVEALING THE PULSAR PROPERTIES OF CENTRAL COMPACT OBJECTS IN SUPERNOVA REMNANTS	43.001	NNX11AD19G		39,889
THE COOLEST X-RAY EMITTING WHITE DWARFS	43.001	NNX09AP43G		38,876
X-RAY AND RADIO MONITORING OF THE TRANSIENT AXP/SGR 1E 1547.0-5408	43.001	NNX10AK90G		37,506
X-RAY AND GAMMA-RAY TIMING AND SPECTRAL STUDIES OF FIVE RADIO QUIET PULSARS (A03)	43.001	NNX11AE46G		36,925
EDGCM: A REALISTIC GLOBAL CLIMATE MODELING EXPERIENCE FOR EDUCATIONAL INSTITUTIONS	43.001	NNX10AT85A		36,745
DYNAMICS OF THE HYDROLOGIC CYCLE IN A CHANGING CLIMATE: INTERACTIONS OF LOW FREQUENCY CLIMATE MECHANISMS AND HYDROLOGIC	43.001	NNX09AN91H		36,187
CHARACTERIZATION OF LARGE AND UNUSUAL NOCTILUCA BLOOMS IN THE NORTHERN ARABIAN SEA AND THEIR ROLE IN CARBON CYCLING DURI	43.001	NNX11AE22G		32,523
ASSESSING AND IMPROVING 25-YEARS OF GLOBAL AND REGIONAL SRB VARIABILITY FROM CLOUD AND AEROSOL PROCE	43.001	NNX08AZ08G		30,235
THE RESPONSE OF CIRCUMBINARY DISK TO A BLACK HOLE MERGER	43.001	NNX11AE05G		29,344
DEEP UV IMAGING OF STRIPPED SPIRAL GALAXIES IN THE VIRGO CLUSTER	43.001	NNX11AC29G		28,886
TROPICAL DEFORESTATION AND THE LAND-WATER INTERFACE: LINKING LAND USE, STREAM CONNECTIVITY, AND THE HEALTH OF FRESHWATER	43.001	NNX08AX08H		28,666
GLOBAL CONSTRAINS ON RADIATIVE PROPERTIES OF ICE CLOUDS USING MODIS AND POLDER MEASUREMENTS	43.001	NNX11AG81G		28,356
GROWING UP FRAGMENTED: USING HYPERSPECTRAL IMAGERY TO IMPROVE ESTIMATES OF ECOSYSTEM SERVICES FROM T	43.001	NNX10AP49H		27,937
BRIGHTNESS VARIATIONS FROM THE ACCRETION DISK IN CH CYGNI	43.001	NNX11AB78G		25,837
VARIABILITY OF AN AVERAGE SYMBIOTIC BINARY - STHA169	43.001	NNX11AB80G		25,837
NUCLEAR SHELL BURNING IN SYMBIOTIC BINARIES	43.001	NNX11AD77G		25,837
POLARIZED 3D RADIATIVE TRANSFER WITH APPLICATION TO REMOTE SENSING	43.001	NNX10AN85H		25,461
CHANGES IN STORM TRACK INTENSITY AND LOCATION AND THEIR IMPACTS IN A WARMER CLIMATE	43.001	NNX08AU80H		23,968
RADIO TIMING OF KEY FERMI PULSARS	43.001	NNX10AP81G		23,123
FINDING TYPE 1A SUPERNOVA PROGENITORS AMONG THE SYMBIOTIC STARS	43.001	NNX10AK31G		19,987
SUPERACTIVE-ACTIVE PASSIVE (SAP) SHIPBORNE/AIRBORNE/SAT. ANALYSIS OF PHOTOPANKTON PIGMENT, GROUP, AND PHISOLOGICAL	43.001	NNX07AN44G		18,269
INTRASEASONAL VARIABILITY AND TROPICAL CYCLONES IN THE NASA GISS GENERAL CIRCULATION MODEL	43.001	NNX09AK34G	APA	17,460
NRA/RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES-2007	43.001	NNX09AF74G	BEA	14,919
PHASE EQUILIBRIUM IN THE LOW-TEMPERATURE PORTION OF THE CO2-H2O SYSTEM WITH APPLICATION OF MARTIAN VOLATILE HISTORY	43.001	NNG05GL91G		13,308
AQUARIUS SCIENCE: SPATIAL & TEMPORAL VARIABILITY OF OBSERVEDSEA SURFACE SALINITY	43.001	NNX06AD57G		11,806
ENVIRONMENTAL FACTORS AND POPULATION DYNAMICS AS DETERMINANTS OF MENINGOCOCCAL MENINGITIS EPIDEMICS IN THE SAHEL: AN INV	43.001	NNX09AT49G		11,719
METAL ENRICHMENT IN GROUPS OF GALAXIES	43.001	NNX08AX65G		10,956
PHYTOPLANKTON ABSORPTION AND CARBON DIOXIDE DRAWDOWN IN THE SOUTHERN OCEAN A CONSORTIUM OF OBSERVATIONS	43.001	NNX07AV24G		8,834
ENVIRONMENTAL FACTORS AND POPULATION DYNAMICS AS DETERMINANTS OF MENINGOCOCCAL MENINGITIS EPIDEMICS IN THE SAHEL: AN INV	43.001	NNX09AT49G	CIE	7,442
ADDRESSING LARGE-SCALE DYNAMICS AND CLIMATE QUESTIONS USING TRMM DATA	43.001	NNX07AD21G		4,944

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THE DEVELOPMENT OF AN ATTITUDE CONTROL SYSTEM FOR A LONG DURATION BALLOON-BORNE CMB POLARIZATION EXPERIMENT	43.001	NNX07AP36H		1,946
EARLY DIFFERENTIATION OF THE MOON: EXPERIMENTAL AND MODELING STUDIES	43.001	NNG06GF93G		1,907
CONNECTING THE EPHEMERIS OF THE GEMINGA PULSAR TO GLAST	43.001	NNX08AX69G		1,687
FIREBALL: FAINT INTERGALACTIC MEDIUM REDSHIFTED EMISSION BALLOON (CO-I INSTITUTION PROPOSAL)	43.001	NNX08A070G	GRA	513
STAR FORMATION DISTRUBITION IN FIELD ELLIPTICALS	43.001	NNX07AJ55G		201
THE GENERAL ANTIPARTICLE SPECTROMETER: A SEARCH FOR ANTIDEUTERONS GENERATED IN DARK MATTER ANNIHILATION	43.001	NNX08AK39G	SC1	0
ICE BRIDGE: IMAGING GROUNDING LINES WITH GRAVITY AND MAGNETICS	43.001	NNX09AR49G	SC1	-10
MEASURING THE MAGNETIC FIELDS OF CENTRAL COMPACT OBJECTIVES IN SUPERNOVA REMNANTS	43.001	NNX08AX71G		-210
EXPLORING THE RELATIONSHIP BETWEEN LYMAN ALPHA EMITTERS AND LYMAN BREAK GALAXIES USING LOCAL ANALOGS	43.001	NNX08AU66G		-500
INTERDISCIPLINARY RESEARCH ON CLIMATE VARIABILITY AND THE CLIMATE CHANGE	43.001	NNX07AT05A		-1,559,377
				10,072,930
Total Direct Award Programs:				14,387,986

Pass-through Awards

National Aeronautics & Space Administration

CALIFORNIA INSTITUTE OF TECHNOLOGY	43.000	CALTECH 44A-1085100 CON	NNG08FD60C	830,136
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.000	CALTECH 44A-1085100	NNG08FD60C	117,788
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.000	CALTECH 44A-1085100 CAL	NNG08FD60C	16,262
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.000	CALTECH 44A-1085100 FAC	NNG08FD60C	7,319
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.000	SAO G01-12019X	NAS8-03060	6,148
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.000	JPLCIT 1362354	NM0710769	345
				977,998

Science

REGENTS OF THE UNIVERSITY OF MINNESOTA	43.001	UMINN X5336565101 SC1	NNX08AG40G	262,729
UNIVERSITY OF WISCONSIN	43.001	UWIS 257K935	NNX10AP10G	158,300
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH #44G-1064646	NAS5-98034	123,208
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1203235 NIC	NAS 7-1260	119,346
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	43.001	RFCUNY 49662-00-01 A	F21500	108,980
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1365013	NM0711043	103,920
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1356207	NM0710843	78,955
UNIVERSITY OF MICHIGAN	43.001	UMICHG 3001568909	NNX10AM20G	74,458
UNIVERSITY OF ILLINOIS, BOARD OF TRUSTEES	43.001	UIL CU09-4272	NNX09AK66G	70,632
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	HST-HF-51277.01A STI	NAS5-26555	52,083
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G09-0080X	NAS8-03060	51,337
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G00-11085X	NAS8-03060	48,818
UNIVERSITY OF ALABAMA, TUSCALOOSA, AL	43.001	UAT 09-017	NNX09AB62G	45,161
REGENTS OF THE UNIVERSITY OF MINNESOTA	43.001	UMINN X5336565101	NNX08AG40G	39,313
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	HST-GO-11698.01-A	NAS5-26555	38,300

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UNIVERSITY OF WASHINGTON	43.001	UWASH 546709	NNX08AJ80G	37,409
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1369759	NMO711043	35,163
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	43.001	RCUNY 49663-00-01 A	NNX07AT10G	34,976
INSTITUTE FOR THE APPLICATION OF GEOSPATIAL TECHNOLOGY, INC	43.001	LAGT CU10-1492	NNX10AT46A	32,457
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G09-0063X	NAS8-03060	31,775
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO1-12086X	NAS8-03060	28,565
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	HST-HF-51277.01A	NAS5-26555	26,510
UNIVERSITY OF CALIFORNIA, IRVINE	43.001	UCI #2008-1969	NNX08AF64G	26,141
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO1-12001X	NASA NAS8-03060	25,390
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G09-0027X	NAS8-03060	23,252
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO7-8055X	NAS8-03060	17,160
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G09-0058X	NAS8-03060	15,613
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1344460	NM0710076	15,608
CORNELL UNIVERSITY	43.001	CU 61420-9284	NNX10AI94H	14,389
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1366188	NM0710076	12,789
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO0-11085X	NAS8-03060	11,098
DICKINSON COLLEGE	43.001	DCKCOL NASA/LEARY-1	NNX10AB47A	9,048
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G08-9060X	NAS8-03060	8,676
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G09-0029B	NAS8-03060	8,169
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G08-9012X SP1	NAS8-03060	7,900
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO1-12004X	NASA NAS8-03060	5,484
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	STSCI HSTGO1110704A	NAS5-26555	5,246
CORNELL UNIVERSITY	43.001	48240-9395	NNG05GH17H	4,028
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	HST-GO-11653.03-A	NASS-26555	2,342
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	HST-GO-11646.01-A	NAS5-26555	2,151
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO0-11085X	NAS8-03060	1,728
NORTHWEST RESEARCH ASSOCIATES, INCORPORATED	43.001	NWRA-09-S-122	NNX09AV16G	358
SPACE TELESCOPE SCIENCE INSTITUTE	43.001	HST-GO-11621.03 A	NAS5-26555	266
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G08-9012X SP2 SP2	NAS8-03060	155
AMERICAN MUSEUM OF NATURAL HISTORY	43.001	AMNH #1-2007	NNX07AI74G	-1
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G08-9012X	NAS8-03060	-9
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1321776	NMO710076	-874
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	G08-9074X	NAS8-03060	-1,095
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT #1287665	NMO710076	-4,162
				1,813,245

Aeronautics

UNIVERSITY OF COLORADO	43.002	UCOL 154-6102	NASA NNX09AN77G	34,943
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Supplemental Schedule of Expenditures of Federal Awards

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
BAYLOR COLLEGE OF MEDICINE-HOUSTON	43.002	BCMH NCC 9-58-265	NCC 9-58	28,443
UNIVERSITY OF COLORADO	43.002	UCOL #154-4913	NNX08AQ70G	-20,459
				42,927
Total Pass-through Programs:				2,834,170
Total: National Aeronautics & Space Administration				17,222,156

Department of Energy

Direct Awards

Office of Science Financial Assistance Program

THEORETICAL HIGH ENERGY PHYSICS HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699 PR		818,227
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222 END		571,657
MONTE CARLO AND DETERMINISTIC 3D RADIATIVE TRANSFER WORKING TOGETHER FOR ENHANCED DETECTION AND MONI	81.049	DE-FG52-08NA28779		563,679
MAGNETO HYDRODYNAM STABILITY ACTIVE MODE CONTROL- OFF CAMPUS THE NATIONAL SPHERICAL TORUS EXPERIMENT	81.049	DE-FG02-99ER54524 A04		512,635
LEVITATED DIPOLE EXPERIMENT - OFF CAMPUS	81.049	DE-FG02-98ER54459 A04		457,172
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699 01		456,543
PROBING THE QUARK-GLUON PLASMA WITH JETS AND HEAVY QUARKS	81.049	DE-FG02-86ER40281		371,680
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.049	DE-FG02-86ER40281 OFF		345,955
PETASCALE HIERARCHICAL MODELING VIA PARALLEL EXECUTION	81.049	DE-SC0002099		309,897
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222 A3		293,369
THEORY OF ULTRA-DENSE MATTER & THE DYNAMICS OF HIGH ENERGY INTERACTIONS INVOLVING NUCLEI	81.049	DE-FG02-93ER40764 PR		287,319
CATALYTIC APPLICATIONS OF H ATOM TRANSFER FROM TRANSITION-METAL HYDRIDE COMPLEXES	81.049	DE-FG02-97ER14807		285,660
MODELING THE FRACTURE OF ICE SHEETS ON PARALLEL COMPUTERS	81.049	DE-SC0002137		258,579
STUDIES OF STRUCTURE AND DYNAMICS OF LIGHT HARVESTING COMPLEX 1 OF R. SPHAEROIDES BY SOLID STATE NMR	81.049	DE-SC0002386		251,822
GENETIC CONTROL OF THE TRIGGER FOR THE G2/M CHECKPOINT	81.049	DE-SC0001634		244,975
SCANNING TUNNELING MICROSCOPY STUDIES OF THE STRUCTURE AND CHEMISTRY OF POLYCYCLIC AROMATIC HYDROCARBONS ON GRAPHITIC	81.049	DE-FG02-88ER13937		224,439
MAGNETOHYDRODYNAMICS MODE CONTROL RESEARCH IN DIII-D	81.049	DE-FG02-04ER54761		220,487
CONTINUES EVALUATION OF FAST PROCESSES IN CLIME MODELS USING AM MEASUREMENTS	81.049	DE SC0002125		208,604
INVESTIGATION OF THE QUANTUM LIMIT TRANSPORT PHENOMENA IN GRAPHENE	81.049	DE-FG02-05ER46215 A00		191,099
FUNDAMENTAL STUDIES OF METAL CENTERED TRANSFORMATIONS RELAVANT TO CATALYSIS	81.049	DE-FG02-93ER14339		187,174
PHOTOCHEMISTRY AT INTERFACES	81.049	DE-FG02-91ER14226		177,567
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699 C		164,138
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222 A07		161,143
BASIC PHYSICS OF TOKAMAK TRANSPORT AND ITS CONTROL	81.049	DE FG02-98ER54464		158,890
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157		158,359
NONLINEAR DYNAMICS OF STRONG INTERCHANGE INSTABILITIES IN A ROTATING DIPOLE-CONFIRMED PLASMA	81.049	DE-FG02-00ER54585 SCO		157,931
DATA MOVEMENT DOMINATES: ADVANCED MEMORY TECHNOLOGY TO ADDRESS THE REAL EXASCALE POWER PROBLEM	81.049	DE-SC0005114		155,937

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
TOWARDS OPTIMAL PETASCALE SIMULATIONS	81.049	DE-FC02-06ER25783		147,383
PRESENT AND FUTURE MODES OF LOW FREQUENCY CLIMATE VARIABILITY	81.049	DE-SC0005108		145,933
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699 02		139,931
ALGORITHMS FOR MATHEMATICAL PROGRAMMING WITH EMPHASIS ON BI-LEVEL MODELS	81.049	DE-FG02-08ER25856		137,936
CATALYTIC GROWTH OF MOLECULAR-SCALE WIRING	81.049	DE-FG02-01ER15264		131,816
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699 F		119,799
IMPACT OF RISING GREENHOUSE GASES ON MID-LATITUDE STORM TRACKS AND ASSOCIATED HYDROCLIMATE VARIABILITY AND CHANGE	81.049	DE-SC0005107		109,128
MAGNETO HYDRODYNAMIC STABILITY AND ACTIVE MODE CONTROL IN THE NATIONAL SPHERICAL TORUS EXPERIMENT	81.049	DE-FG02-99ER54524 A05		109,107
MECHANISTIC AND QUANTITATIVE STUDIES OF BYSTANDER RESPONSES IN 3-D TISSUES FOR LOW-DOSE RADIATIONS R	81.049	DOE DE-FG02-07ER6433		109,068
INVESTIGATION OF THE QUANTUM LIMIT TRANSPORT PHENOMENA IN GRAPHENE	81.049	DE-FG02-05ER46215 SCO		105,071
THE ADAPTIVE RESPONSE, GENETIC HAPLO-INSUFFICIENCY AND GENOMIC INSTABILITY	81.049	DE-FG02-05ER64054		104,536
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699 B		103,642
THEORETICAL STUDIES OF PHOTOACTIVE MOLECULAR SYSTEMS: ELECTRON TRANSFER, ENERGY TRANSPORT, AND OPTICAL SPECTROSCOPY	81.049	DE-FG02-90ER14162		98,270
STELLARATORY THEORY	81.049	DE-FG02-95ER54333 A04		91,287
LOW DOSE RADIATION CATARACT	81.049	DE-FG02-07ER64334		86,459
CENTER FOR SIMULATION OF WAVE INTERACTIONS WITH MAGNETOHYDRODYNAMICS	81.049	DE-FC02-06ER54863 REN		74,881
CENTER FOR PLASMA EDGE SIMULATION	81.049	DE-FC02-06ER54862 A03		68,679
BASIC PHYSICS OF TOKAMAK TRANSPORT AND ITS CONTROL	81.049	DE FG02-98ER54464		64,642
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157 MIL		61,576
THEORY OF SURFACE AND INTERFACE PHYSICS OF CORRELATED ELECTRON MATERIALS	81.049	DE-FG02-04ER46169		61,126
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.049	DE-FG02-86ER40281		55,562
CATALYTIC GROWTH OF MOLECULAR-SCALE WIRING	81.049	DE-FG02-01ER15264		53,329
THEORETICAL HIGH ENERGY PHYSICS (NICOLIS/HUI)	81.049	DE-FG02-92ER40699 HUI		47,121
THEORY OF ULTRA-DENSE MATTER & THE DYNAMICS OF HIGH ENERGY INTERACTIONS INVOLVING NUCLEI	81.049	DE -FG02-93ER40764 OFF		46,031
CELLULAR RESPONSE TO LOW DOSE RADIATION--ROLE OF PHOSPHATIDYLINOSITOL - 3 KINASE LIKE LINASE (PIKK)	81.049	DE-FG02-05ER64055		44,675
CARBON NANOTUBES AND METAL-ORGANIC JUNCTIONS	81.049	DE FG02-98ER14861		40,846
DEVELOPMENT OF ENABLING SCIENTIFIC TOOLS TO CHARACTERIZE THE GEOLOGIC SUBSURFACES AT HANFORD	81.049	DE-SC0004625		38,773
CENTER FOR PLASMA EDGE SIMULATION	81.049	DE-FC02-06ER54862 OFF		34,455
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222 A08		34,254
ELECTRONICS FROM NANO-SCALE CRYSTALS	81.049	DE-FG02-04ER46118		33,482
LASER DYNAMIC STUDIES OF PHOTOREACTIONS OF SINGLE-CRYSTAL AND NANOSTRUCTURED SURFACES	81.049	DE-FG02-90ER14104		30,799
THEORY OF SURFACE AND INTERFACE PHYSICS OF CORRELATED ELECTRON MATERIALS	81.049	DE-FG02-04ER46169		28,122
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157 GRA		26,771
LASER DYNAMIC STUDIES OF PHOTOREACTIONS OF SINGLE-CRYSTAL AND NANOSTRUCTURED SURFACES	81.049	DE-FG02-90ER14104 EQU		24,844
REGIONAL CLIMATE-CHANGE PROJECTIONS THROUGH NEXT-GENERATION EMPIRICAL AND DYNAMICAL MODELS	81.049	DE-FG02-02ER63413		23,496
COLLABORATIVE PROPOSAL ON SEPERATING FORCED AND UNFORCED DECADAL PREDICTABILITY IN MODELS AND OBSERVATIONS	81.049	DE-SC0005109		16,985
PROBING THE QUARK-GLUON PLASMA WITH JETS AND HEAVY QUARKS	81.049	DE-FG02-86ER40281		16,011

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.049	DE-FG02-86ER40281	CON	15,034
RESISTIVE WALL MODES & ERROR FIELD AMPLIFICATION- OFF CAMPUS	81.049	DE-FG02-03ER54696	OFF	10,309
LEVIATED DIPOLE EXPERIMENT - ON CAMPUS	81.049	DE-FG02-98ER54459	A03	6,912
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157	OF2	5,764
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157		5,686
LASER DYNAMIC STUDIES OF PHOTOREACTIONS OF SINGLE-CRYSTAL AND NANOSTRUCTURED SURFACES	81.049	DE-FG02-90ER14104	OFF	4,192
THEORETICAL HIGH ENERGY PHYSICS (GREENE SCOPE)	81.049	DE-FG02-92ER40699	GRE	2,901
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157	MIL	1,858
RESISTIVE WALL MODES AND ERROR FIELD AMPLIFICATION	81.049	DE-FG02-03ER54696	ON	1,401
NONLINEAR DYNAMICS OF STRONG INTERCHANGE INSTABILITIES IN A ROTATING DIPOLE-CONFINED PLASMA	81.049	DE-FG02-00ER54585	A01	863
CENTER FOR GYROKINETIC PARTICLE STIMULATION OF TURBULENT TRANSPORT IN BURNING PLASMAS	81.049	DE-FC02-08ER54962		-1,192
				10,914,491

Fossil Energy Research and Development

TAGGING CARBON DIOXIDE TO ENABLE QUANTITATIVE INVENTORIES OF GEOLOGICAL CARBON STORAGE	81.089	DE-FE0001535		370,207
TAGGING CARBON DIOXIDE TO ENABLE QUANTITATIVE INVENTORIES OF GEOLOGICAL CARBON STORAGE	81.089	DE-FE0001535	LDE	94,518
RADIOCARBON AS A REACTIVE TRACER FOR TRACKING PERMANENT CO2 STORAGE IN BASALTIC ROCKS	81.089	DE-FE0004847	LAM LAM	54,048
RADIOCARBON AS A REACTIVE TRACER FOR TRACKING PERMANENT CO2 STORAGE IN BASALTIC ROCKS	81.089	DE-FE0004847		10,297
				529,070

Total Direct Award Programs:

11,443,561

Pass-through Awards

Department of Energy

BROOKHAVEN NATIONAL LABORATORY	81.000	BNL 0000192571	DE -AC02-98CH10886	1,000,000
ARGONNE NATIONAL LABS	81.000	ARGNTL #9F-31603	DE-AC02-06CH11357	223,359
LAWRENCE BERKELEY NATIONAL LABORATORY	81.000	LBNL NO.6924501	DE-AC02-95CH11231	198,565
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL CU08-9027	DE-AC02-98CH10886	128,566
PRINCETON PLASMA PHYSICS LABORATORY	81.000	PPPL S010115-R	DE-AC02-09CH11466	102,552
ARGONNE NATIONAL LABS	81.000	ARGNTL CU10-0978	DE-AC02-06CH11357	76,403
SANDIA NATIONAL LABORATORIES	81.000	SANDIA 0964214	DE-ACO4-94AL-85000	44,207
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL #188884	DE-AC0298CH10886	38,705
LAWRENCE BERKELEY NATIONAL LABORATORY	81.000	LBNL 6943081	DE-AC02-05CH11231	38,374
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL CU08-9027	DE-AC02-98CH10886	28,345
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL 189607	SCO	23,267
LAWRENCE LIVERMORE NATIONAL LABORATORY	81.000	LLNL B595720	YR4	22,013
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL 189607	DE-AC02-98CH10886	21,997
LAWRENCE LIVERMORE NATIONAL LABORATORY	81.000	LLNL B587550	YR3	18,943
UNIVERSITY OF WISCONSIN	81.000	UWIS 266K755	00088978	13,523
LAWRENCE LIVERMORE NATIONAL LABORATORY	81.000	LLNL B585562	DE-AC52-07NA27344	-1,075

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
LAWRENCE BERKELEY NATIONAL LABORATORY	81.000	LBNL NO.6878398	DE-AC02-05CH11231	-22,923
				1,954,821
Office of Science Financial Assistance Program				
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL CU09-1814	DE-AC02-98CH10886	153,534
UNIVERSITY OF CENTRAL FLORIDA	81.049	UCFL 24086040-01	DE-FG02-07ER15842	124,204
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL #89592	DE-AC02-98CH10886	94,359
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL #122920	DE-AC02-98CH10886	88,518
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170 A03	DE-FG02-05ER15730	80,389
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170	DE-FG02-05ER15730	63,830
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 140121	DE-AC02-98CH10886	58,868
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 135079 SC1	DE-AC02-98CH10886	54,329
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	81.049	RFCUNY 47829A	DE-SC0003739	43,832
PICARRO INC.	81.049	PICAR CU10-1206	DE-FG02-07ER84902	34,824
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	81.049	RFCUNY 47829A SCO	DE-SC0003739	34,304
NATIONAL RENEWABLE ENERGY LABORATORY	81.049	NREL AGJ-0-40318-01	DE-AC36-08GO28308	33,923
FERMI NATIONAL ACCELERATOR LABORATORY	81.049	FERMI NO.587521 R&D	DE-AC02-07CH11359	33,917
UNIVERSITY OF MARYLAND	81.049	UMARY Z705501	DE-PS02-07ER07-24	12,465
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 170457	DE-AC02-98CH10886	10,752
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 135079	DE-AC02-98CH10886	8,822
PRINCETON PLASMA PHYSICS LABORATORY	81.049	PPPL-S009096-F	DOE DE-AC02-09CH11466	7,571
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170 A04	DE-FG02-05ER15730	4,530
HOFSTRA UNIVERSITY	81.049	HOFSTRA CU10-2003	DE-SC0001985	3,021
DEPARTMENT OF ENERGY	81.049	DE-FC02-06ER54862		2,553
RENSSELAER POLYTECHNIC INSTITUTE	81.049	RPI A11654	DE-FG02-05FR46258	-430
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 140169	DE-AC02-98CH10886	-4,009
				944,106
Fossil Energy Research and Development				
UNIVERSITY OF CALIFORNIA, SAN DIEGO	81.089	UCSD #10296230	DE_FE0000100	29,994
				29,994
Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Analysis/Assistance				
BROOKHAVEN NATIONAL LABORATORY	81.117	BNL 175557	DE-AC02-98CH10886	24,776
				24,776
Nuclear Energy Research, Development and Demonstration				
RENSSELAER POLYTECHNIC INSTITUTE	81.121	RPI A11896	DE-FG07-07ID14889	78,749
				78,749
Total Pass-through Programs:				3,032,446

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R&D Cluster, continued

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Total: Department of Energy				14,476,007

Department of Defense

Direct Awards

Other DOD

CORTICALLY-COUPLED COMPUTER VISION: C3-VISION	12.000	DARPA N10PC20050		888,367
INTERACTION OF SYNUCLEIN AND INFLAMMATION IN DOPAMINERGIC NEURODEGERATION	12.000	W81XWH-08-1-0465		314,665
PREDICTING POWER, INFLUENCE AND RIFTS IN SOCIAL GROUPS THROUGH LINGUISTIC ANALYSIS: A STUDY OF ENGLISH AND ARABIC ELECTR	12.000	DA W911NF-09-C-0141	RAM	284,963
PREDICTING POWER, INFLUENCE AND RIFTS IN SOCIAL GROUPS THROUGH LINGUISTIC ANALYSIS: A STUDY OF ENGLISH AND ARABIC ELECTR	12.000	DA W911NF-09-C-0141		239,971
TARGETING CLASS I PI3KS IN THE TREATMENT OF T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA	12.000	W81XWH-10-1-0595		169,187
CORTICALLY-COUPLED COMPUTER VISION: C3-VISION	12.000	DARPA N10PC20050	CHA	129,234
ALLOSTERIC EFFECTORS OF CHOLINESTERASE	12.000	HDTRA1-11-C-006		72,647
ULTRA HIGH BANDWIDTH LOW POWER TRANSPARENT OPTICAL INTERFACE FOR CHIP MULTIPROCESSORS	12.000	NSAH9823008C02660000		54,276
NANOTECHNOLOGY METAL MESH FILTERS AND RICHROICS FOR THE ASTRONOMICAL COMMUNITY (P.O. N00173-10-9-1574)	12.000	N00173-10-P-1574	SC4	30,076
STUDENT WORK AT NPS	12.000	N00244-10-P-1303		22,728
MEDICAL, CHEMICAL AND BIOLOGICAL DEFENSE RESEARCH	12.000	DTRA1-07-C-0022		3,250
NANOTECHNOLOGY METAL MESH FILTERS AND DICHROICS FOR THE ASTRONOMICAL COMMUNITY	12.000	N00173-10-P-1574	AMB	2,262
				2,211,626

Basic and Applied Scientific Research

NEXT GENERATION OF ADVANCED LASER FLUORESCENCE TECHNOLOGY FOR CHARACTERIZATION OF NATURAL AQUATIC ENVIRONMENTS	12.300	N00014-10-1-0205		500,953
GRAPH-BASED SEMI-SUPERVISED LEARNING FOR STRUCTURE DISCOVERY AND SEMANTIC INFORMATION INFERENCING	12.300	N00014-10-1-0242		262,651
SYMBIOTIC, POLYMORPHIC, AUTOTOMIC, RESILIENT, CLEAN-SLATE, HOST SECURITY (SPARCHS)	12.300	FA8750-10-2-0253		209,598
INTERGRATED MOLECULAR-SCALE ELECTRONIC DEVICES VIA DNA NANOSTRUCTURE ASSEMBLY	12.300	N00014-09-1-1117	P2A	203,525
CONTINENTAL SHELF EMBAYMENTS OF THE EASTERN MARGIN OF THE PHILIPPINES: LAMON BAY STRATIFICATION & CIRCULATION	12.300	N00014-10-1-0426		178,369
SYMBIOTIC, POLYMORPHIC, AUTOTOMIC, RESILIENT, CLEAN-SLATE, HOST SECURITY (SPARCHS)	12.300	FA8750-10-2-0253	SAL	165,315
LITHOGRAPHICALLY DIRECTED BIOMOLECULAR ASSEMBLY OF ELECTRONICALLY FUNCTIONAL NANOSTRUCTURES FOR SUB-10 NM ELECTRONIC DEV	12.300	N00014-09-1-0250		146,611
METHODS FO SYSTEM-LEVEL DESIGN AND PROGRAMMING OF HETEROGENEOUS EMBEDDED MULTI-CORE PLATFORMS	12.300	N00014-10-1-0739		142,705
INTERGRATED MOLECULAR-SCALE ELECTRONIC DEVICES VIA DNA NANOSTRUCTURE ASSEMBLY	12.300	N00014-09-1-1117	P2B	137,949
CARDINALITY BOUNDED MATHEMATICAL PROGRAMS: NEW TECHNIQUES, MODELS AND COMPUTATION	12.300	N00014-09-1-0327		136,760
REGIONAL STRATIFICATION AND SHEAR OF THE VARIOUS STREAMS FEEDING THE PHILIPPINE STRAITS	12.300	N00014-09-1-0582		133,929
INITIAL OBSERVATION OF HIGH RESOLUTION VELOCITY PROFILE AND STRATIFICATION IN THE SUNDA STRAIT	12.300	N00014-08-01-0618		118,251
SYMBIOTIC, POLYMORPHIC, AUTOTOMIC, RESILIENT, CLEAN-SLATE, HOST SECURITY (SPARCHS)	12.300	FA8750-10-2-0253	KER	104,763
COMPRESSED SENSING: RECOVERY ALGORITHMS AND ANALYSIS	12.300	N00014-08-1-1118		101,426
LITHOGRAPHICALLY DIRECTED BIOMOLECULAR ASSEMBLY OF ELECTRONICALLY FUNCTIONAL NANOSTRUCTURES FOR SUB-10 NM ELECTRONIC DEV	12.300	N00014-09-1-0250	SHE	101,102
LITHOGRAPHICALLY DIRECTED BIOMOLECULAR ASSEMBLY OF ELECTRONICALLY FUNCTIONAL NANOSTRUCTURES FOR SUB-10 NM ELECTRONIC DEV	12.300	N00014-09-1-0250	NUC	94,725
INTERGRATED MOLECULAR-SCALE ELECTRONIC DEVICES VIA DNA NANOSTRUCTURE ASSEMBLY	12.300	N00014-09-1-1117	P2E	89,546

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R&D Cluster, continued

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VALIDATION OF BIOGEOCHEMICAL MEASUREMENTS IN THE ARCTIC OCEAN FROM VIRGINIA AND SEA WOLF CLASS SUBMARINES	12.300	N00014-11-1-0517		88,882
INTERGRATED MOLECULAR-SCALE ELECTRONIC DEVICES VIA DNA NANOSTRUCTURE ASSEMBLY	12.300	N00014-09-1-1117	P2C	73,139
SYMBIOTIC, POLYMORPHIC, AUTOTOMIC, RESILIENT, CLEAN-SLATE, HOST SECURITY (SPARCHS)	12.300	FA8750-10-2-0253	JUN	69,261
THE DESIGN AND BIOLOGICAL TESTING OF RED VISION EYE DROPS	12.300	N00014-08-1-0150		46,735
ATMOSPHERE-OCEAN INTERACTION OF THE MJO FROM UNMANNED AIRBORNE VEHICLES	12.300	N00014-10-1-0545		31,229
OCEAN SURFACE WAVE OPTICAL ROUGHNESS-INNOVATIVE POLARIZATION MEASUREMENT	12.300	N00014-06-1-0372		30,171
PHOTOMETRIC METHODS FOR SCENE UNDERSTANDING	12.300	N00014-08-1-0329		25,041
MODIFICATION OF THE STRATIFICATION AND VELOCITY PROFILE WITHIN THE STRAITS AND SEAS OF THE INDONESIAN ARCHIPELAGO	12.300	N00014-10-1-0317		22,014
AUGMENTED REALITY FOR IMMERSIVE TRAINING	12.300	N00014-09-1-0996		19,345
PASSIVE VISUAL INTRUSION DETECTION	12.300	N00014-11-1-0285		18,152
INTERGRATED MOLECULAR-SCALE ELECTRONIC DEVICES VIA DNA NANOSTRUCTURE ASSEMBLY	12.300	N00014-09-1-1117		17,850
METHODS FOR CONTROLLABLE AND FLEXIBLE IMAGING	12.300	N00014-06-1-0032		4,312
MATHEMATICAL MODELS OF ILLUMINATION AND REFLECTANCE FOR IMAGE UNDERSTANDING AND MACHINE VISION	12.300	N00014-07-1-0900		-14,249
ADVANCED MONTE CARLO SIGNAL PROCESSING AND NETWORK CODING WITH APPLICATIONS IN SENSOR NETWORKS AND	12.300	N00014-08-1-0318		-18,069
				3,241,991

Basic Scientific Research - Combating Weapons of Mass Destruction

METANOLOMICS-BASED RAPID BIODOSIMETRY FOR PARTIAL-BODY EXPOSURES	12.351	HDTRA1-07-1-0025		155,636
RESILIENCE OF NETWORKS TO GEOGRAPHICALLY CORRECTED FAILURES	12.351	DTRA HDTRA10910057		114,511
PHYSICS OF RADIATION EXPOSURE AND CHARACTERIZATION FOR FUTURE ELECTRONIC MATERIALS	12.351	HDTRA1-11-1-0022		8,637
METANOLOMICS-BASED RAPID BIODOSIMETRY FOR PARTIAL-BODY EXPOSURES	12.351	HDTRA1-07-1-0025		-444
				278,340

Military Medical Research and Development

RACIAL DISPARITIES IN THE INITIATION AND INTENSITY OF ADJUVANT THERAPY FOR BREAST CANCER	12.420	DDEF W81XWH-0510399		1,045,962
PTSD TRAJECTORY, COMORBIDITY, AND UTILIZATION OF MENTAL HEALTH SERVICES AMONG RESERVES	12.420	W81XWH-08-2-0204		470,504
"SPINAL MUSCULAR ATROPHY (SMA): DISEASE PHENOTYPE AND MECHANISMS"	12.420	W81XWH-09-1-0245		288,214
COLUMBIA SMA PROJECT: A RANDOMIZED, CONTROL TRIAL OF THE EFFECTS OF EXERCISE ON MOTOR FUNCTION AND STRENGTH IN PATIENTS	12.420	W81XWH-10-1-0127		260,681
"COLUMBIA SMA PROJECT: ROLE OF MMP-9 IN MOTOR NEURON SUSCEPTIBILITY TO "SMA"	12.420	W81XWH-10-1-0878		249,468
"SPINAL MUSCULAR ATROPHY (SMA): DISEASE PHENOTYPE AND MECHANISMS"	12.420	W81XWH-09-1-0245		232,669
ACTIVATION OF A NOVEL DEATH PATHWAY, TARGETED NECROSIS, BY P53 PEPTIDES, TO CIRCUMVENT APOPTOTIC RESISTANCE IN PROSTATE	12.420	W81XWH-09-1-0733		216,184
NEXT-GENERATION MOUSE MODELS FOR STUDYING PROSTATE CANCER INITIATION AND PROGRESSION	12.420	W81XWH-09-1-0377		208,664
COLUMBIA SMA PROJECT: IDENTIFICATION OF GENETIC MODIFIERS OF SMN EXPRESSION AND FUNCTION	12.420	W81XWH-10-1-0126		188,847
THERAPEUTIC TARGETING OF NOTCH IN OVARIAN CANCER	12.420	W81XWH-09-1-0408		181,688
RACIAL DISPARITIES IN PALLIATIVE CARE FOR PROSTATE CANCER	12.420	W81XWH-10-1-0802		149,303
TARGETING CLASS I PI3KS IN THE TREATMENT OF T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA	12.420	W81XWH-10-1-0596		139,416
NEUROPROTECTIVE SMALL MOLECULES FOR THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS	12.420	W81XWH-08-1-0522		135,553
MYC-DEPENDENT DNA REPLICATION STRESS AND BREAST CANCER	12.420	W81XWH-09-1-0504		131,192
PRECLINICAL STUDIES OF SIGNALING PATHWAY IN A MUTANT MOUSE MODEL OF HORMONE-REFRACTORY PROSTATE CANC	12.420	W81XWH-08-1-0087		120,882

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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PREVENTING VISUAL HANDICAP IN CHILDREN WITH TUBEROUS SCLEROSIS COMPLEX	12.420	W81XWH-09-1-0575		117,934
READY-TO-USE TISSUE CONSTRUCT FOR MILITARY BONE AND CARTIAGE TRAUMA	12.420	W81XWH-10-1-0933		116,441
USING MOUSE MODELS TO STUDY THE ROLE OF PIK3CA MUTATIONS IN MAMMARY TUMORIGENESIS.	12.420	W81XWH-09-1-0485		116,357
INVESTIGATION OF P-REX2A AND PTEN FUNCTIONAL INTERACTIONS IN BREAST CANCER	12.420	W81XWH-10-1-0568		115,218
COLUMBIA UNIVERSITY SPINAL MUSCULAR ATROPHY (SMA) RESEARCH PROGRAM	12.420	W81XWH-08-1-0009	SC1	113,136
QUALITY-OF-CARE INDICATORS FOR EARLY-STAGE PROSTATE CANCER	12.420	DDEF W81XWH-05-1-017		106,378
TARGETING KINASE IN PROSTRATE CANCER	12.420	W81XWH-11-1-0177		83,876
DEVELOPMENT OF A NANOPARTICLE-BASED IMMUNOTHERAPY FOR BLOOD CANCERS	12.420	W81XWH-09-1-0351		83,591
READY-TO-USE TISSUE CONSTRUCT FOR MILITARY BONE AND CARTIAGE TRAUMA	12.420	W81XWH-10-1-0933	MAO	71,614
PRE-CLINICAL TESTING OF NEW HYDROXYBUTYRATE ANALOGUES	12.420	W81XWH-10-1-0539		66,960
COORDINATION OF BRCA1/BARD1 AND MRE11/RAD50/NBS1 DEPENDENT DNA TRANSACTIONS IN BREAST TUMOR SUPPRESS	12.420	W81XWH-08-1-0398		64,694
NEUROPROTECTIVE SMALL MOLECULES FOR THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS	12.420	W81XWH-08-1-0522	SC1	54,590
NOTCH IN PATHOLOGICAL ANGIOGENESIS AND LYMPHANGIO GENESIS	12.420	W81XWH-10-1-0304		45,446
CREATION OF PHYSIOLOGICAL MODELS FOR TUMORIGENESIS OF BASAL MAMMARY EPITHELIAL CELLS	12.420	W81XWH-09-1-0045		37,800
THE ROLE OF CTIP IN BRCA1-MEDIATED TUMOR SUPPRESSION	12.420	W81XWH-09-1-0046		32,400
THE ROLE OF XMRV A NOVEL XENOTROPIC MURINE RETROVIRUS IN HUMAN PROSTATE CANCERS	12.420	W81XWH-07-1-0387	SC1	28,718
THE ROLE OF XMRV A NOVEL XENOTROPIC MURINE RETROVIRUS IN HUMAN PROSTATE CANCERS	12.420	W81XWH-07-1-0387		28,190
COORDINATION OF BRCA1/BARD1-AND MRE11/RAD50/NBS1-DEPENDENT DNA TRANSACTIONS IN BREAST TUMOR SUPPRESS	12.420	W81XWH-08-1-0426		26,857
LINEAGE ANALYSIS OF CELLS OF ORIGIN FOR PROSTATE CANCER	12.420	W81XWH-11-1-0485		5,619
FUNCTIONAL ANALYSIS OF ANDROGEN RECEPTOR IN PROSTATE EPITHELIAL STEM CELLS	12.420	W81XWH-11-1-0463		5,025
EVALUATING INTERSTRAND CROSSLINK (ICL) REPAIR IN TRIPLE NEGATIVE BREAST CANCERS TO GUIDE CHEMOTHERAPY	12.420	W81XWH-11-1-0265		2,315
A TELECONFERECD SEMINAR SERIES IN FUNCTIONAL MAGNETIC RESONANCE IMAGING RESEARCH METHODS AT COLUMBI	12.420	TARDEC W56HZV-04-P-L		-5,075
MOLECULAR MECHANISMS AND TREATMENT STRATEGIES FOR OBESITY ASSOCIATED CORONARY ARTERY DISEASE--AN IMM	12.420	W81XWH-06-1-0212		-15,584
				5,321,727

Basic Scientific Research

DATASETS, 3D ALIGNMENT, AND A HIERARCHY OF VISUAL ATTRIBUTES FOR FACE VERIFICATION IN UNCONTROLLED SETTINGS WITH NON-COO	12.431	DA W911NF-10-2-0011		317,110
ULTRACOLD MOLECULES IN OPTICAL LATTICES: EFFICIENT PRODUCTION AND APPLICATION TO MOLECULAR CLOCKS	12.431	DA W911NF-09-1-0504		249,803
COLLABORATIVE RESEARCH: ULTRA-DENSE QUANTUM COMMUNICATION USING INTEGRATED PHOTONIC ARCHITECTURE	12.431	W911NF-10-1-0416		236,608
COLLABORATIVE RESEARCH: ULTRA-DENSE QUANTUM COMMUNICATION USING INTEGRATED PHOTONIC ARCHITECTURE	12.431	W911NF-10-1-0416		220,993
IMAGING USING SHARED OPTICS AND ABERRATION EXPLOITATION	12.431	W911NF-10-1-0214		173,877
SELF-ASSEMBLY AND SELF-ORGANIZATION IN NANOOMPOSITES DIRECTED BY BLOCK COPOLYMER LIGANDS	12.431	W911NF-10-1-0184		165,599
EFFECT OF SLEEP DEPRIVATION OF FMRI-MEASURED COGNITIVE NETWORKS	12.431	DAAD19-02-1-0047	SC1	145,798
PROTEIN-BASED BIOELECTRODES FOR MICROFLUIDIC SENSOR SYSTEMS	12.431	DA W9132T-07-2-0008		111,810
MULTI-DEPARTMENT, MULTI-USER MICROELECTRODE ARRAY ELECTROPHYSIOLOGY SETUP DEDICATED TO ENGINEERING RESEARCH AND EDUCATIO	12.431	W911NF-11-1-0019		93,430
ELECTRONIC STRUCTURE AT OXIDE INTERFACES	12.431	W911NF-09-1-0345		75,078
ADAPTIVE SAMPLING FOR SCALABLE LEARNING	12.431	W911NF-10-1-0440		50,001
SATURATED PARTICLE TRANSPORT IN POROUS MEDIA: AN INVESTIGATION INTO THE INFLUENCE OF FLOW DIRECTION	12.431	W911NF-10-1-0123		45,228

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PHOTONIC INTER-CONNECTION NETWORKS FOR HIGH PERFORMANCE EMBEDDED COMPUTING	12.431	W911NF-08-1-0127		39,495
WORKSHOP ON INTERACTIVE VIDEO SEARCH	12.431	W911NF-10-1-0389		32,860
FROM THE LAB TO THE FIELD: PORTABLE MEANS OF PRESERVING CORTICAL FUNCTION FOLLOWING SLEEP DEPRIVATION	12.431	ARO W911NF-05-1-0050		11,972
ADAMS ADVANCED BEHAVIORAL SENSORS	12.431	W911NF-11-1-0140		9,986
IMAGING CORRELATES OF NEUROGENESIS IN HUMANS	12.431	DAAD19-02-1-0047	SC2	8,359
EFFECT OF SLEEP DEPRIVATION OF FMRI-MEASURED COGNITIVE NETWORKS	12.431	DAAD19-02-1-0047		2,338
NONLINEAR SPECTROSCOPY OF NANOPARTICLE/ACQUEOUS INTERFACES	12.431	DA W911NF0710116		-1,070
PROBING THE NEURAL CIRCUITRY OF DECEPTION	12.431	W911NF-05-1-0462		-5,525
				1,983,750
Basic, Applied, and Advanced Research in Science and Engineering				
A LARGE-SCALE SPIKING NEURON MODEL OF VISUAL CORTEX AS A SUBSTRATE FOR OPTIMIZING VISUAL PERCEPTION	12.630	NGA HM1582-07-1-2002		128,293
JOINT AUDIO-VISUAL SIGNATURES FOR WEB VIDEO ANALYSIS AND FORENSIC	12.630	NGA HM1582-09-1-0036		127,811
JOINT AUDIO-VISUAL SIGNATURES FOR WEB VIDEO ANALYSIS AND FORENSICS	12.630	NGA HM1582-09-1-0036 CHA		99,987
BETA-ROLL PEPTIDE STRUCTURES FOR ALLOSTERICALLY CONTROLLED BIOMOLECULAR RECOGNITION AND DECONTAMINATION	12.630	DA W9132T-08-2-0012		85,478
MULTI-PHOTON FOCK STATE MIRCOSCOPY AT THE DE BROGLIE WAVELENGTH	12.630	NGA HM1582-09-1-0018		39,081
DIRECTED EVOLUTION OF ALLOSTERIC BINDING PEPTIDES	12.630	DA W9132T-08-2-0002		27,793
				508,443
Air Force Defense Research Sciences Program				
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES	12.800	FA9550-09-1-0705		439,124
THE GEOMETRY OF SWITCHING ARCHITECTURES FOR TIME ENCODING	12.800	DAF FA95500910350		371,704
PLASTICITY IN HIGH TEMPERATURE MATERIALS: TANTALUM AND MONAZITE	12.800	DAF FA9550-09-1-0048		265,618
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES	12.800	FA9550-09-1-0705	OSG	191,414
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES	12.800	FA9550-09-1-0705	HON	151,759
ATTENTION AND SENSORIMOTOR INTERGRATION	12.800	DAF OSR FA9550-10-1-		110,850
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES	12.800	FA9550-09-1-0705	HEI	109,286
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES	12.800	FA9550-09-1-0705	KIM	97,744
OPTIMAL STATISTICAL DECISIONS WITH CATASTROPHIC RISKS	12.800	DAFOSR FA95500910467		96,693
MICROSCOPIC UNDERSTANDING OF DEVICE PERFORMANCE IN GRAPHENE AND OTHER LOWDIMENSIONAL QUANTUM MATERIA	12.800	DA FA9550-10-1-0068		89,912
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES (STM-B)	12.800	FA9550-09-1-0705	OS2	59,375
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES (STM-A)	12.800	FA9550-09-1-0705	OS1	52,233
QUANTUM OPTICS IN DIAMOND NANOPHOTONIC CHIPS	12.800	FA9550-11-1-0014		30,112
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075 MAL		17,614
PECASE: MICROSCOPTIC ELECTRONIC AND MECHANICAL PROPERTIES OF ULTRA-THIN LAYERED MATERIALS	12.800	FA9550-11-1-0010		7,345
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075		2,795
EQUIPMENT ACQUISITION FOR THE STUDY OF MECHANICAL BEHAVIOR OF MATERIALS UNDER HIGH TEMPERATURES AND EXTREME CONDITIONS	12.800	DAFOSR FA95500910453		1,852
SCOPS: SECURE CYBER OPERATIONS AND PARALLELIZATION STUDIES	12.800	DAFOSR FA95500910389		754
OPTIMAL STATISTICAL DECISIONS WITH CATASTROPHIC RISKS	12.800	DAFOSR FA95500910467 SCO		578

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SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075 KER		340
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075 STO		-2
IMPROVEMENTS TO A MAJOR DIGITAL ARCHIVE OF SEISMIC WAVEFORMS FROM NUCLEAR EXPLOSIONS	12.800	DAFAFRLFA871807C0004		-61,295
				2,035,805
Mathematical Sciences Grants Program				
WEAKLY INFORMATIVE PRIORS	12.901	H98230-10-1-0184		41,612
				41,612
Research and Technology Development				
MIDAS: MID IR DATA ACQUISTION-TRANSMISSION IN SILICONBASED SYSTEMS	12.910	HR0011-10-10080		422,352
ACTIVE MATRIX POLYMER ELECTROSTRICTOR FOR LARGE AREA POLYMER MEMS	12.910	DARPA N10AP20041		197,735
STRAIN SENSOR FOR LARGE AREA MECHANICS AND ACOUSTICS	12.910	DARPA N10AP20025		182,248
DARPA COMPUTER SCIENCE STUDY GROUP PHASE 2 PROPOSAL	12.910	HR 0011-08-1-0069		42,860
NONLINEAR SIGNAL PROCESSING AND NONCLASSICAL OPTICS IN SILICON ULTRAHIGH-Q/V PHOTONIC CRYSTAL NANOSTRUCTURED CAVITIES	12.910	DAW911NF-07-1-0175		12,298
				857,493
Total Direct Award Programs:				16,480,787
Pass-through Awards				
Other DOD				
URS FEDERAL TECHNICAL SERVICES, INC.	12.000	URSFTS EGG0035165	DTRA GS-10F-0202K/10RT00	3,450,279
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	12.000	MIT 7000135026	FA8721-05-C-0002	196,651
JOHNS HOPKINS UNIVERSITY	12.000	JH 2000378590	8.1 H98230-07-C-0365/0000	165,078
DANA FARBER CANCER INSTITUTE	12.000	DFCI 3075401	W911NF-10-1-0266	121,082
KITWARE, INC.	12.000	KITWARE K000135-S10	DARPA HR0011-10-CH-C0011	113,175
GEORGIA INSTITUTE OF TECHNOLOGY	12.000	GIT R6790-S1	NSA H98230-09-C-0336	91,994
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	12.000	MIT 7000135026	CAR FA8721-05-C-0002	86,990
NORTHROP GRUMMAN CORPORATION	12.000	NGC 8140000623	W31P4Q-09-C-0528	71,790
INFOSCITEX CORPORATION	12.000	INFOSCITEX B1423-S00	W81XWH-11-C-005	60,227
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	12.000	SAIC P010068909	DARPA HR0011-10-C-0110	54,010
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	MEE FA8650-08-C-7838	46,632
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	PHY FA8650-08-C-7838	37,078
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	FA8650-08-C-7838	34,876
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	PH2 FA8650-08-C-7838	30,000
LEAR SIEGLER SERVICES, INC.	12.000	LSS LSI-03-514-MOD 1	DAAB07-03-D-B010	29,731
JOHNS HOPKINS UNIVERSITY	12.000	JH 2000378590	8.1 H98230-07-C-0365/0000	26,192
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	KIM FA8650-08-C-7838	5,219
UNIVERSAL TECHNOLOGY CORPORATION	12.000	UTCD 11-S587-037-01-	FA8650-07-D-5800	4,836
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	GRA FA8650-08-C-7838	3,719

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INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	HEI	FA8650-08-C-7838	-374
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	12.000	SAIC P010027030		N66001-09-C-0112	-518
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.000	IBM W0853813	HON	FA8650-08-C-7838	-741
					4,627,926
Basic and Applied Scientific Research					
UNIVERSITY OF MARYLAND	12.300	UMARY Z894102	HEI	N00014-09-1-1064	148,741
UNIVERSITY OF MARYLAND	12.300	UMARY Z894102		N00014-09-1-1064	131,405
UNIVERSITY OF MARYLAND	12.300	UMARY Z894102	PIN	N00014-09-1-1064	98,068
UNIVERSITY OF CONNECTICUT	12.300	UCONN 6966		N00014-10-1-0944	86,642
UNIVERSITY OF MARYLAND	12.300	UMARY Z887101	NAY	N00014-08-1-0638	86,064
UNIVERSITY OF PENNSYLVANIA	12.300	UPENN 548359		N00014-07-1-0907	67,515
UNIVERSITY OF MARYLAND	12.300	UMARY Z887101		N00014-08-1-0638	53,449
RENSSELAER POLYTECHNIC INSTITUTE	12.300	RPI A12040		N000014-09-1-0524	35,039
YALE UNIVERSITY	12.300	YU C09K10284		N0014-09-1-0757	21,638
YALE UNIVERSITY	12.300	YU C09K10284	KER	N0014-09-1-0757	-869
					727,692
Basic Scientific Research - Combating Weapons of Mass Destruction					
ARIZONA STATE UNIVERSITY	12.351	ASU 11-624		HDTRA1-11-1-0010	13,462
					13,462
Military Medical Research and Development					
UNIVERSITY HOSPITALS OF CLEVELAND	12.420	UHOC CU09-4682		W81XWH-07-1-0409	276,427
JACKSON (HENRY M.) FNDN FOR THE ADVANCEMENT OF MILITARY MEDICIN	12.420	HJFAMM 681181		W81XWH-09-2-0129	163,248
VANDERBILT UNIVERSITY MEDICAL CENTER	12.420	VU VUMC34539-R		W81XWH-05-1-0239	42,212
					481,887
Basic Scientific Research					
UNIVERSITY OF PENNSYLVANIA	12.431	UPENN 555860		DA ARO W911NF-10-1-0526	274,163
CORNELL UNIVERSITY	12.431	CU 54696-8648		W911NF-08-1-0058	236,097
UNIVERSITY OF CALIFORNIA, DAVIS	12.431	UCD 08-000678-CU-1		W911NF-08-1-0364	20,131
					530,391
Basic, Applied, and Advanced Research in Science and Engineering					
UNIVERSITY OF NEW MEXICO	12.630	UNMEX 18200487B5		FA9550-06-1-0264	163,262
					163,262
Air Force Defense Research Sciences Program					
GEORGE MASON UNIVERSITY	12.800	GMU 107151A		FA9550-07-0527	128,034
STANFORD UNIVERSITY	12.800	25915490-47766-A		FA9550-10-1-0194	100,142
GEORGE MASON UNIVERSITY	12.800	GMU 107151A	STO	FA9550-07-0527	93,332
JACKSON (HENRY M.) FNDN FOR THE ADVANCEMENT OF MILITARY MEDICIN	12.800	HJFAMM 718246		FA8650-10-2-6A02	18,544

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GEORGE MASON UNIVERSITY	12.800	GMU 107151A NIE	FA9550-07-0527	17,510
				357,562
Mathematical Sciences Grants Program				
STANFORD RESEARCH INTERNATIONAL	12.901	SRI 27-001365	DARPA W91CRB-10-C-0128	43,567
STANFORD RESEARCH INTERNATIONAL	12.901	SRI 27-001365 P1A	DARPA W91CRB-10-C-0128	42,415
				85,982
Research and Technology Development				
CARNEGIE-MELLON UNIVERSITY	12.910	CMU NO.1041388-23798	DARPA HR0011-07-3-0002	424,670
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853748 RAM	HR0011-08-C-0110	332,373
UNIVERSITY OF CALIFORNIA, LOS ANGELES	12.910	UCLA 0160 S MB 959	2009-NT-2048	301,053
BBN SYSTEMS AND TECHNOLOGIES	12.910	BBN PO# 9500009242 PH3	HR0011-08-C-0004	218,245
ACXIOM	12.910	ACXIOM CU09-0773	N41756-06-C-3077	195,539
KITWARE, INC.	12.910	KITWARE HR001108C013	HR0011-08-C-0135-S7	191,355
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IMB A0854199		162,252
UNIVERSITY OF SOUTHERN CALIFORNIA	12.910	USC 146301	FA8650-10-1-7042	155,165
YALE UNIVERSITY	12.910	YU C11LI0831	FA9550-10-1-0297	140,383
UNIVERSITY OF CALIFORNIA, LOS ANGELES	12.910	UCLA 0160 S MB 899	2009-NT-2048	126,379
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853748 MCK	HR0011-08-C-0110	119,804
BBN SYSTEMS AND TECHNOLOGIES	12.910	BBN 13251	DARPA HR0011-06-C-0022	106,978
GEORGIA INSTITUTE OF TECHNOLOGY	12.910	GIT RA306-S8	HR0011-04-3-0002	100,377
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	12.910	MIT 5710002701	DARPA HR0011-07-3-0002	83,955
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853748 HIR	HR0011-08-C-0110	77,791
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM A0854199	DARPA HR0011-09-0002	40,849
UNIVERSITY OF COLORADO	12.910	UCOL 154-3158	HR011-06-1-0048	14,109
CACI TECHNOLOGIES, INC	12.910	CACIT S09-103224	W15P7-06-D-E402	11,515
BBN SYSTEMS AND TECHNOLOGIES	12.910	BBN PO# 9500009242	HR0011-08-C-0004	1,287
STANFORD RESEARCH INTERNATIONAL	12.910	SRI 27-001026 YR3	DARPA CU02606401	900
BOISE STATE UNIVERSITY	12.910	BOISE 129G106001-A	FA9453-08-0252	158
CACI TECHNOLOGIES, INC	12.910	CACITI S09-103224 SET	W15P7-06-D-E402	-3
CACI TECHNOLOGIES, INC	12.910	CACITI S09-103224 BAI	W15P7-06-D-E402	-290
STANFORD RESEARCH INTERNATIONAL	12.910	SRI 27-001026	DARPA CU02606401	-900
				2,803,944
Total Pass-through Programs:				9,792,108
Total: Department of Defense				26,272,895

Department of Commerce

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Direct Awards				
Department of Commerce				
CONTINUED DATA MANAGEMENT FOR THE US EXTENDED CONTINENTAL SHELF	11.000	RA133E-09-SE-3353		22,964
METADATA TEMPLATES FOR GEOLOGIC SAMPLE INFORMATION	11.000	NOAA RA133E10SE2556		7,838
				30,802
NOAA Mission-Related Education Awards				
SUMMER RESEARCH PROGRAM FOR SCIENCE TEACHERS	11.008	NA10SEC0080034		4,943
				4,943
Coastal Zone Management Estuarine Research Reserves				
AND CLIMATIC CHANGES IN HUDSON RIVER NERR WETLANDS	11.420	NOA NA08NOS4200273		-272
				-272
Climate and Atmospheric Research				
THE CONTINUATION OF THE INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE AND SOCIETY 2010-2012	11.431	NA10OAR4310210		7,654,317
THE INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE RESEARCH PREDICTION: 2005 - 2010	11.431	NA05OAR4311004		968,705
GLOBAL DECADAL HYDROCLIMATE VARIABILITY, PREDICTABILITY AND CHANGE: A DATA-ENRICHED MODELING STUDY	11.431	NA10OAR4310137		251,410
MECHANISMS AND PREDICTABILITY OF THE GLOBAL CLIMATE IMPACTS OF ATLANTIC MULTIDECADAL VARIABILITY	11.431	NA08OAR4320912	A6U	209,834
CONSORTIUM FOR CLIMATE RISK IN THE URBAN NORTHEAST	11.431	NA10OAR4310212		162,000
ATLANTIC MULTIDECADAL VARIABILITY: MECHANISMS, IMPACT AND PREDICTABILITY: A STUDY USING OBSERVATIONS AND IPCC AR4 MODEL S	11.431	NA08OAR4320912	A6S	148,009
FLUCTUATIONS IN OCEAN HEAT AND FREASHWATER INVENTORY AND OF INTEROCEAN EXCHANGE	11.431	NAO80AR4320912	A6C	142,794
ABRUPT CLIMATE CHANGE: MODERN INSTRUMENTAL RECORDS - CFCS	11.431	NAO80AR4320912	A6F	141,732
MERIDIONAL HYDROLOGY VARIABILITY AND SYNTHESIS OF OCEAN CIRCULATION	11.431	NAO80AR4320912	A6H	127,537
HOLOCENE VARIABILITY OF THE DEEP LIMB OF MERIDIONAL OVERTUNING CIRCULATION	11.431	NAO80AR4320912	A6G	124,982
THE MECHANISMS AND PREDICTABILITY OF MULTI-BASIN INFLUENCES ON NORTH AMERICAN DROUGHT	11.431	NA08OAR4320912	A1	123,891
DIAGNOSING DECADAL-SCALE CLIMATE VARIABILITY IN CURRENT GENERATION COUPLED MODELS FOR INFORMING NEAR-TERM CLIMATE CHANGE	11.431	NA08OAR4320912	A6T	118,122
TOWARDS NEAR-GLOBAL RECONSTRUCTION AND UNDERSTANDING OF HYDROCLIMATE VARIABILITY AND CHANGE OVER THE PAST SEVERAL CENTUR	11.431	NA10OAR4310123		117,607
TOWARDS A BETTER UNDERSTANDING OF THE RELATIONSHIP BETWEEN CLIMATE CHANGE AND TROPICAL CYCLONE	11.431	NAO80AR4320912	A4	113,313
EARTH INSTITUTE CLIMATE CENTER	11.431	NAO80AR4320912	A6O	104,202
CICAR CVP: PREDICTING NORTH-AMERICAN HYDRO-CLIMATE CHANGE AND VARIABILITY ON THE INTERANNUAL TO MULTIDECADAL TIMESCALE	11.431	NA08OAR4320912	A6V	102,002
RECALIBRATING AND COMBINING ENSEMBLE PREDICTIONS	11.431	NA08OAR4320912	A6Q	99,844
CLIMATE PREDICTABILITY OF EXTREME FLOODS IN THE UNITED STATES	11.431	NA10OAR4310159		97,033
SPECTRAL CHARACTERISTICS OF CLIMATE PROXIES AND THEIR EXPRESSION IN CLIMATE FIELD RECONSTRUCTIONS.	11.431	NA07OAR4310060		91,663
UNDERSTANDING AND ATTRIBUTING TROPICAL CYCLONE INTENSITY AND FREQUENCY CHANGES IN THE 20TH AND 21ST CENTURIES	11.431	NA10OAR4310124		86,419
SENSITIVITY OF CLIMATE VARIABILITY TO ANTHROPOGENIC AND NATURAL DRIVERS DURING THE LAST MILLENNIUM	11.431	NA10OAR4310126		85,797
ABRUPT CLIMATE CHANGE IN A WARMING WORLD: SYNTHESIS OF TRACER DATA	11.431	NAO80AR4320912	A6B	77,443
GENERATION AND EVALUATION LONG-TERM RETROSPECTIVE FORECAST WITH NCEP CLIMATE FORECAST SYSTEM: PREDICTABILITY ENSO AND DR	11.431	NAO80AR4320912	A2	67,853
INFRASTRUCTURE	11.431	NAO80AR4320912	A6N	57,769
THE MADDEN-JULIAN OSCILLATION: MODEL DEVELOPMENT AND DIAGNOSIS OF MECHANISMS	11.431	NA08OAR4320912	A6R	52,636

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
RADIOGENIC ISOTOPE TRACER PALEO-PROXY SCOPE	11.431	NAO80AR4320912	A6L	50,417
SOUTHERN OCEAN-ICE SHEET INTERACTIONS	11.431	NAO80AR4320912	A6D	46,732
CONSORTIUM FOR CLIMATE RISK IN THE URBAN NORTHEAST	11.431	NA10OAR4310212	CIS	46,225
THE COOPERATIVE INSTITUTE FOR CLIMATE APPLICATIONS AND RESEARCH (CICAR CONTINUATION) SHADOW AWARD	11.431	NA08OAR4320912	A6K	46,056
CONSORTIUM FOR CLIMATE RISK IN THE URBAN NORTHEAST	11.431	NA10OAR4310212	IRI	43,239
NEW TOOLS FOR NORTH AMERICAN DROUGHT PREDICTION	11.431	NA08OAR4310622		43,196
ARCHES-ABRUPT CLIMATE CHANGE IN A WARMING WORLD: LESSONS FROM HOLOCENE PALEO AND MODERN INSTRUMENT RECORDS AND MODEL SIM	11.431	NAO80AR4320912	A6P	42,185
THE AMERICAN MIDSUMMER DROUGHT: CASUAL MECHANISMS AND SEASONAL-TO-INTERANNUAL PREDICTABILITY	11.431	NA10OAR4310252		37,795
FORCING MECHANISMS FOR TROPICAL RAINFALL IN GCMS	11.431	NA060AR4310143	S1	33,222
CORC-ARCHES: MODELING AND UNDERSTANDING LATE HOLOCENE AND NEAR TERM FUTURE HYDROCLIMATE CHANGE	11.431	NA080AR4320912	A6A	32,253
NOAA ARCHES 2008-2010 SCHAEFER MOUNTAIN GLACIERS	11.431	NAO80AR4320912	A6M	31,528
ASSESSING UNSTOPPABLE CHANGE: OCEAN HEAT STORAGE AND ANTARTIC GLACIAL ICE MELT	11.431	NA10OAR4310138		28,463
CONSORTIUM FOR CLIMATE RISK IN THE URBAN NORTHEAST EHS	11.431	NA10OAR4310212	EHS	26,189
TOWARDS A BETTER UNDERSTANDING OF THE RELATIONSHIP BETWEEN CLIMATE CHANGE AND TROPICAL CYCLONE	11.431	NAO80AR4320912	AP	23,070
THE PATEOCLIMATE RECONSTRUCTION (PR) CHALLENGE: A COMMUNITY PROGRAM TO BENCHMARK METHODS USED IN RECONSTRUCT THE CLIMATE	11.431	NAO80AR4320912	A3	22,501
INCORPORATING SCALE AND PREDICTABILITY INFORMATION IN MULTI-MODEL ENSEMBLE CLIMATE PREDICTIONS	11.431	NA10OAR4310249		16,985
AUTONOMOUS MULTI-PARAMETER MEASUREMENTS FROM A DRIFTING BUOY DURING THE SOUTHERN OCEAN GAS EXCHANGE	11.431	NA07OAR4310094	SC1	8,281
HOLOCENE VARIABILITY OF ATLANTIC SURFACE PROPERTIES AND WEST AFRICAN ARIDITY	11.431	NAO80AR4320912	A6J	2,857
ABRUPT CHANGE IN THE WEST ANTARCTIC PENINSULA IN A WARMER WORLD	11.431	NA080AR4320912	A6E	35
FORCING MECHANISMS FOR TROPICAL RAINFALL IN GCMS	11.431	NA060AR4310143		-976
CLIMATE-INFORMED ADAPTIVE MANAGEMENT & PLANNING TO MEET URBAN WATER SUPPLY & FLOOD MITIGATION GOALS IN THE DELAWARE	11.431	NA07OAR4310377		-30,527
				11,876,640

National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes

UNDERWAY CO2 MEASUREMENTS ABOARD THE RVIB PALMER AND DATA MANAGEMENT OF THE GLOBAL VOS PROGRAM	11.432	NA08OAR4320754	P04	447,431
MONITORING THE INDONESIA THROUGHFLOW IN MAKASSAR STRAIT	11.432	NAO8OAR4320754		236,817
WEDDELL SEA MOORINGS	11.432	NAO8OAR4320754	P03	144,762
COOPERATIVE INSTITUTE FOR CLIMATE APPLICATIONS AND RESEARCH (CICAR)	11.432	NAO8OAR4320754		109,281
ERROR MODELS FOR REMOTELY-SENSED SEA SURFACE HEIGHTS AND TEMPERATURES IN OCEAN DATA ASSIMILATION	11.432	NAO8OAR4320912	A5	71,766
IDENTIFY, SHARING, AND SHOWCASING DECISION SUPPORT PRODUCTS AND INFORMATION FROM THE CLIMATE AND SO	11.432	NAO8OAR4320754	P08	64,843
GLOBAL OCEANIC 3HE DATA SET: CALIBRATION TOOLS FOR MODELS OF THE UPWARD BRANCH OF THE DEEP OCEAN GLOBAL CONVEYOR	11.432	NAO8OAR4320754	P09	24,844
CICAR: ARCHES: INFRASTRUCTURE	11.432	NAO30AR4320179	P02	19,437
BOUNDARY LAYER EXPERIMENTS OF CORAL REEF CALCIFICATION AND NET O2 PRODUCTION	11.432	NAO8OAR4320754	P07	6,401
CICAR: ARCHES-PALEO SEA-ICE DISTRIBUTIONS	11.432	NAO30AR4320179	P04	-50
CICAR: THE INTERGRATED ROLE OF SNOW, OROGRAPHY AND DYNAMICAL WAVES IN FACILIATING WESTERN US LAND SU	11.432	NAO30AR4320179	22A	-2,848
INTERNATIONAL INTERNSHIPS FOR CLIMATE AND SOCIETY	11.432	NAO8OAR4320754	P06	-33,737
				1,088,947

Total Direct Award Programs:

13,001,060

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Pass-through Awards				
ITA Special Projects				
INTERNATIONAL BUSINESS MACHINES, CORPORATION	11.113	IBM W0145970	DC W911NF0630001	51,280
				51,280
Geodetic Surveys and Services (Geodesy and Applications of the National Geodetic Reference System)				
UNIVERSITY OF ALASKA AT FAIRBANKS	11.400	UALASKA FP01306	NA09NOS4000262	13,517
				13,517
Climate and Atmospheric Research				
FUGRO (MCCLELLAND MARINE GEOSCIENCES INC.)	11.431	FUGRO CU09-3544	NOAA EA133C05CQ1051	55,395
RESEARCH CORPORATION OF THE UNIVERSITY OF HAWAII	11.431	HWAIRC Z888181	NAO80AR4310890	20,724
				76,119
National Oceanic and Atmospheric Administration (NOAA) Cooperative Institutes				
OPENDAP	11.432	OPENDAP CU07-1864	NA760C0512	31,377
				31,377
Total Pass-through Programs:				172,293
Total: Department of Commerce				13,173,353

Department of Education

Direct Awards

National Resource Centers Program for Foreign Language and Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship Program				
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B100026		322,710
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP	84.015	DE P015B100153		296,500
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B100078		263,315
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE-P015B100110		251,168
EAST EUROPEAN AND RUSSIAN FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE-P15B100136		248,485
MIDDLE EAST INSTITUTE NRC/FLAS	84.015	DE P015A100110		178,424
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND STUDENTS FELLOSHIPS PROGRAMS	84.015	DE P015A100078		146,045
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE-P015B100054		135,500
NATIONAL RESOURCE AND FOREIGN LANGUAGE AND STUDIES FELLOWSHIPS PROGRAMS-INTERNATIONAL COMPREHENSIVE NRC	84.015	DE-P015A100054		124,664
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES (EALAC-IN)	84.015	DE P15A100026	EAL	124,503
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP.	84.015	DE-P015A100153		87,320
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP.	84.015	DE P015A100153	INS	75,444
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES (OUTREACH)	84.015	DE P15A100026	OU2	57,038
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP.	84.015	DE P015A100153	LIB	55,367
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES (OUTREACH)	84.015	DE P15A10026	STA	44,663
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE-P015A100026		34,887

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
MIDDLE EAST INSTITUTE NRC/FLAS	84.015	DE P015A100110	INS	24,222
MIDDLE EAST INSTITUTE NRC/FLAS	84.015	DE P015A100110	LIB	18,605
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND STUDENTS FELLOWSHIPS PROGRAMS	84.015	DE P015A100078	LIB	16,084
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP.	84.015	DE P015A100153	SYP	10,927
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP.	84.015	DE P015A100153	OUT	10,258
NATIONAL RESOURCE CENTERS AND FOREIGN LANGUAGE AND STUDENTS FELLOSHIPS PROGRAMS	84.015	DE P015A100078	INS	9,972
NATIONAL RESOURCE AND FOREIGN LANGUAGE AND STUDIES FELLOWSHIPS PROGRAMS-INTERNATIONAL COMPREHENSIVE	84.015	DE-P015A100054	CAC CAC	6,277
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES (EALAC-IN)	84.015	DE P15A100026	EA2	2,915
LIBRARY ACQUISITIONS FOR INTERNATIONAL	84.015	DE-P01A100054	LIB LIB	1,080
				2,546,373
Overseas Programs - Doctoral Dissertation Research Abroad				
2010-2011 US DEPARTMENT OF EDUCATION FULBRIGHT-HAYS DOCTORAL DISSERTATION RESEARCH ABROAD (DDRA) PROGRAM	84.022	DE P022A100031		301,529
				301,529
Javits Fellowships				
JACOB K. JAVITS FELLOWSHIP 2010-11	84.170	DE P170B100003		306,285
				306,285
Centers for International Business Education				
CENTERS FOR INTERNATIONAL BUSINESS (CIBE) PROGRAM	84.220	DE P220A100023		126,843
CENTERS FOR INTERNATIONAL BUSINESS (CIBE) PROGRAM	84.220	DE P220A100023	BSC	95,201
CENTERS FOR INTERNATIONAL BUSINESS (CIBE) PROGRAM	84.220	DE P220A100023	SIP	76,040
				298,084
Education Research, Development and Dissemination				
PRACTICAL TOOLS FOR MULTILEVEL/HIERARCHICAL MODELING IN EDUCATION RESEARCH	84.305	DE R305D100017		400,073
THE EFFECTS OF NO CHILD LEFT BEHIND ON SCHOOL SERVICES AND STUDENT OUTCOMES	84.305	DE R305A090032-10A		317,871
PRACTICAL SOLUTIONS FOR MISSING DATA AND IMPUTATION	84.305	DE R305D090006		245,160
				963,104
Total Direct Award Programs:				4,415,375
Pass-through Awards				
National Institute on Disability and Rehabilitation Research				
CAROLINAS REHABILITATION	84.133	CAREHAB CU09-1188	H133A080035	69,108
JOHN F. KENNEDY JOHNSON REHABILITATION INSTITUTE	84.133	JFKMC 090102-001	SC1 DE H133A020518	15,182
JOHN F. KENNEDY JOHNSON REHABILITATION INSTITUTE	84.133	JFKJRI CU08-7619	H133A031713	13,463
				97,753
Mathematics and Science Partnerships				
TEACHERS COLLEGE	84.366	TC 511232	U336S090039	42,653
				42,653

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Total Pass-through Programs:				140,406
Total: Department of Education				4,555,781

Department of Agriculture
Direct Awards

Department of Agriculture

USE OF LONG TERM EXPERIMENTAL FORREST PROVENANCE TRIALS FOR SELECTION OF FUTURE FORRESTS: TOOLS TO P	10.000	SFES 10-JV-11242306-		43,196
CELLULAR RETINOL-BINDING PROTEIN, TYPE III; IT'S ROLE IN VITAMIN A METABOLISM	10.000	USDA 2002-35200-1157		3,195
				46,391

Agricultural Research_Basic and Applied Research

EVALUATION OF THE IMPACT OF CHANGING CLIMATE ON FOOD SECURITY THROUGH GLOBAL AGRICULTURE MODELS	10.001	USDA NO. 58-3625-0-6		115,537
				115,537

Agricultural Market and Economic Research

EVALUATION OF PATHOGENS AND PESTICIDES AFFECTING HONEY BEE HEALTH	10.290	USDA 58-1275-7-370		18,690
				18,690

Urban and Community Forestry Program

THE URBAN FOREST CHILDHOOD ASTHMA AND COMMUNITY AIR QUALITY	10.675	SFES 10-DG-11420004-		177,760
				177,760

Total Direct Award Programs:

358,378

Pass-through Awards

Grants for Agricultural Research_Competitive Research Grants

DARTMOUTH COLLEGE	10.206	DARTC 669	USDA 2007-35107-18364	50,898
				50,898

Agriculture and Food Research Initiative (AFRI)

CORNELL UNIVERSITY	10.310	CU CU10-1897	USDA	44,665
				44,665

Total Pass-through Programs:

95,563

Total: Department of Agriculture

453,941

Department of Interior
Direct Awards

Department of Interior

IMPROVING METHODS OF MEASURING SURFACE WATER FLOW PATTERNS AND VELOCITIES	15.000	NPFS #H5284080029		35,845
HOW CAN THE CONTRIBUTION OF CLIMATE VARIABILITY, WATER RELEASE PATTERNS AND HYDROLOGIC PERFORMANCE I	15.000	NPFS H528408003		76
				35,921

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Earthquake Hazards Reduction Program				
THE LAMONT COOPERATIVE SEISMOGRAPHIC NETWORK AND THE ADVANCED NATIONAL SEISMIC SYSTEM: EARTHQUAKE HAZARD STUDIES IN THE	15.807	USGS G10AC00094		318,291
REAL-TIME DOUBLE-DIFFERENCE LOCATIONS AS THE CISEN: IMPLEMENTATION AND DD CATALOG MAINTENANCE	15.807	USGS G09AP00018		20,196
ANALYSIS OF MICROSEISMICITY AT PARKLAND, CALIFORNIA, THROUGH IMPROVE DETECTION AND LOCATION	15.807	USGS G09AP00067		5,980
NEAR-REAL-TIME MONITORING, ANALYSIS AND FORECAST OF REPEATING EARTHQUAKE IN NORTHERN CALIFORNIA...	15.807	G11AP20037		5,049
TOWARD NEAR REAL-TIME DOUBLE DIFFERENCE EVENT RELOCATION AT THE NEIC	15.807	USGS G09AP00132		4,553
				354,069
U.S. Geological Survey_ Research and Data Collection				
MEASUREMENT OF TRITIUM/HELIUM, NEON AND 3HE/4HE GROUNDWATER SAMPLES	15.808	USGS #05HQC�0029		96,000
NBII NORTHEAST INFORMATION NODE	15.808	USGS G10AC00696		50,673
THE NORTHEAST INFORMATION NODE OF THE NATIONAL BIOLOGICAL INFORMATION INFRASTRUCTURE	15.808	USGS #05CRAG0041		10,686
				157,359
Total Direct Award Programs:				547,349
Pass-through Awards				
Department of Interior				
DRAPER LABORATORY	15.000	DRAPER SC001-0000000	2006*1089719*502	28,137
				28,137
Total Pass-through Programs:				28,137
Total: Department of Interior				575,486
Department of Justice				
Direct Awards				
National Institute of Justice Research, Evaluation, and Development Project Grants				
DEVELOPMENT OF A SCIENCE BASE AND OPEN SOURCE SOFTWARE FOR BLOODSTAIN PATTERN ANALYSIS	16.560	DJ 2010-DN-BX-K203		65,099
DEVELOPMENT OF A SCIENCE BASE AND OPEN SOURCE SOFTWARE FOR BLOODSTAIN PATTERN ANALYSIS	16.560	DJ 2010-DN-BX-K203		50,542
				115,641
Total Direct Award Programs:				115,641
Pass-through Awards				
National Institute of Justice Research, Evaluation, and Development Project Grants				
NEW YORK UNIVERSITY	16.560	NYU F6862-01	2010-1J-CX-0225	2,707
				2,707
Total Pass-through Programs:				2,707
Total: Department of Justice				118,348
Department of State				

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Direct Awards				
Department of State				
TIBET ECOTOURISM PROJECT YR 3	19.000	DS SECAPE 07GR14 DT		-1,260
				<u>-1,260</u>
Department of State				
NGO CAPACITY IN DARFUR WITH DARFUR DEVELOPMENT ADVISORY GROUP	19.202	S-LMAQM-10-GR-037		288,195
				<u>288,195</u>
USAID Foreign Assistance for Programs Overseas				
CARE AND PROTECTION OF CHILDREN IN EMERGENCIES - A GOOD PRACTICE - POLICY CHANGE INITIATIVE	98.001	DFD-A-00-05-00252-00		394,660
IMPROVING REEF BIODIVERSITY & SUSTAINABLE FISHING IN THE MUNICIPALITY OF MICHES, DOMINICAN REPUBLIC	98.001	USAID 517-A-00-10-00		317,237
				<u>711,897</u>
Total Direct Award Programs:				<u>998,832</u>
Pass-through Awards				
Department of State				
ECOHEALTH ALLIANCE	19.000	ECOHA PREDICT Y1 201	AID GHNA 0009 0001 000	280,029
ECOHEALTH ALLIANCE	19.000	ECOHA PREDICT Y2 201	AID GHNA 0009 0001 000	109,981
INSTITUTE OF INTERNATIONAL EDUCATION	19.000	IIE CU10-2111	DS CU10-2111	14,482
NATIONAL DEMOCRATIC INSTITUTE	19.000	11-11067-UGA.0-922	S-LMAQM-11-GR-503	6,888
UNIVERSITY RESEARCH, CO.	19.000	URC FY11-G02-6990	AID GHS-A-00-09-00015-00	4,623
				<u>416,003</u>
Academic Exchange Programs - Teachers				
INSTITUTE OF INTERNATIONAL EDUCATION	19.408	IIE CU10-1171	DS	52,752
				<u>52,752</u>
Department of State				
WILDLIFE TRUST (AKA ECOHEALTH ALLIANCE)	98.000	WILDLIFE CU10-1005	USAID	75,835
QED GROUP LLC	98.000	QEDG C433-101--50-CU	EEM-C-00-08-0004-00	51,084
ACADEMY FOR EDUCATIONAL DEVELOPMENT	98.000	AED 3760-02-COL-01	GHS 100070000800	-4,932
				<u>121,987</u>
USAID Foreign Assistance for Programs Overseas				
FAMILY HEALTH INTERNATIONAL	98.001	FHI 132120	GPO-A-00-05-00022-00	325,834
UNIVERSITY OF CALIFORNIA, DAVIS	98.001	UCD 200910804-01	GHN-A-00-09-00010-00	248,684
				<u>574,518</u>
USAID Development Partnerships for University Cooperation and Development				
WILDLIFE CONSERVATION SOCIETY	98.012	WCS 00-1344 NEW	USAID EPP-A-00-060001400	90,951
NATIONAL ACADEMIES	98.012	NAS PGA-P280423	ESP-A-00-05-00001-00	25,724
WILDLIFE CONSERVATION SOCIETY	98.012	WCS CU02813702	USAID EPP-A-00-060001400	956

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
				117,631
Total Pass-through Programs:				1,282,891
Total: Department of State				2,281,723

Department of Transportation

Direct Awards

Department of Transportation

CRITICAL STUDIES TO ADVANCE BRAIN INJURY BIOMECHANICS THROUGH SIMON	20.000	DTNH22-08-C-00088		262,580
CORROSION MONITORING RESEARCH STUDY OF NEW YORK CITY BRIDGES	20.000	FHADTFH61-04-C-00040		66,361
APPLICATION OF THE NASA GISS GLOBAL COMPOSITION-CLIMATE MODELING SYSTEM TO QUANTIFY THE EFFECTS OF AVIATION EMISSIONS ON	20.000	DTRT57-10-C-10013		29,764
				358,705

Airport Improvement Program

LAP VOIP EXTENSIONS FOR THE TERMINAL LAB	20.106	FAA DTFAAC-08-P-0258		-408
				-408
Total Direct Award Programs:				358,297

Pass-through Awards

University Transportation Centers Program

RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	20.701	RFCUNY #49111	DTRT07-G-0002	-468
				-468
Total Pass-through Programs:				-468
Total: Department of Transportation				357,829

Department of Veterans Affairs

Direct Awards

Department of Veterans Affairs

IARPA STONESOUP - MINESTRONE	64.000	FA8650-10-C-7024		1,002,037
IARPA STONESOUP - MINESTRONE	64.000	FA8650-10-C-7024	YAN	202,280
IARPA STONESOUP - MINESTRONE	64.000	FA8650-10-C-7024	SAL	139,255
				1,343,572
Total Direct Award Programs:				1,343,572

Pass-through Awards

Department of Veterans Affairs

INTERNATIONAL BUSINESS MACHINES, CORPORATION	64.000	IBM 4911010105	IARPA D11PC20070	9,123
INTERNATIONAL BUSINESS MACHINES, CORPORATION	64.000	IBM #4911010105	CC	9,068
INTERNATIONAL BUSINESS MACHINES, CORPORATION	64.000	IBM #4911010105	EE	8,230

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
BBN SYSTEMS AND TECHNOLOGIES	64.000	BBN 13981	D11PC20071	1,755
				28,176
Total Pass-through Programs:				28,176
Total: Department of Veterans Affairs				1,371,748

Dept. of Housing & Urban Development

Direct Awards

Doctoral Dissertation Research Grants

GENTRIFICATION AND HEALTHY HABITATS IN NEW YORK CITY: 1990 TO PRESENT	14.516	HUD H-21598SG		19,520
PROCESSES OF INSTITUTIONAL CHANGE IN URBAN ENVIRONMENTAL POLICY	14.516	HUD H-21604SG		13,660
				33,180

Healthy Homes Technical Studies Grants

HEALTHY HOME HEALTHY SENIORS	14.906	NYLHH0198-09		414,377
				414,377
Total Direct Award Programs:				447,557

Pass-through Awards

Housing Opportunities for Persons with AIDS

ICF INCORPORATED	14.241	ICFI 29PS00181	HUD VAMV-001-07	39,183
				39,183
Total Pass-through Programs:				39,183

Total: Dept. of Housing & Urban Development

486,740

Environmental Protection Agency

Direct Awards

Science To Achieve Results (STAR) Research Program

PRJT 2 - NEURODEVELOPMENT	66.509	EPA RD-83450901-0	PJ2	255,573
PRJT 1 - OBESITY	66.509	EPA RD-83450901-0	PJ1	204,815
DIAGNOSTIC MONITORING OF BIO-GEOCHEMICAL INTERACTIONS OF A SHALLOW AQUIFER IN RESPONSE TO A CO2 LEAK	66.509	EPA RD-83450301-0		162,531
QUANTIFYING GRAZING ON HARMFUL ALGAE WITH A NOVEL QPCR-BASEDTECHNIQUE	66.509	EPA RD83322201		158,195
COLUMBIA CENTER FOR CHILDREN ENVIRONMENTAL HEALTH - ADMIN CORE	66.509	EPA RD-83450901-0		149,097
DSM CORE SCOPE	66.509	EPA RD-83450901-0	DSM	106,928
COTC CORE SCOPE - CCCEH	66.509	EPA RD-83450901-0	COT	98,498
COLUMBIA CENTER FOR CHILDREN'S ENVIRONMENTAL HEALTH	66.509	EPA RD-83214101	S8	59,777
DIAGNOSTIC MONITORING OF BIO-GEOCHEMICAL INTERACTIONS OF A SHALLOW AQUIFER IN RESPONSE TO A CO2 LEAK	66.509	EPA RD-83450301-0	JUR	52,124
PRJT 3 - MECHANISTIC (PSYCHOLOGY)	66.509	EPA RD-83450901-0	PS3	51,008
CCCEH - ASTHMA PROJECT	66.509	EPA RD-83214101	S4	31,423

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
PRJT 3 - MECHANISTIC (MEDICINE)	66.509	EPA RD-83450901-0 M3		21,629
PRJT 3 - MECHANISTIC PRIMARY SCOPE (CCCEH)	66.509	EPA RD-83450901-0 PJ3		10,634
DIAGNOSTIC MONITORING OF BIO-GEOCHEMICAL INTERACTIONS OF A SHALLOW AQUIFER IN RESPONSE TO A CO2 LEAK	66.509	EPA RD-83450301-0 EQU		10,351
CCCEH - ADMIN CORE	66.509	EPA RD-83214101 PRM		1,597
				<u>1,374,180</u>
Science To Achieve Results (STAR) Fellowship Program				
EPA FELLOWSHIP EXPOSURE TO PHTHALATES MIXTURES AND INNER-CITY PEDIATRIC ASTHMA	66.514	EPA FP-91712001-0		16,999
ANALYSIS OF URANIUM EXPOSURE IN THE EASTERN AGENCY OF NAVAJO NATION	66.514	EPA FP-91688701-3		11,146
				<u>28,145</u>
P3 Award: National Student Design Competition for Sustainability				
MULTIFUNCTION ENERGY PLATFORM PILOT	66.516	EPA SU-83430201-0		17,455
				<u>17,455</u>
Regional Applied Research Efforts (RARE)				
GREEN ROOF RESEARCH	66.517	AE-83484601-0		9,077
				<u>9,077</u>
Environmental Policy and Innovation Grants				
THE ADJUSTMENT COSTS OF CLEAN AIR ADMINISTRATIVE DATA	66.611	EPA PI83425901		34,650
				<u>34,650</u>
Total Direct Award Programs:				<u>1,463,507</u>
Pass-through Awards				
Environmental Protection Agency				
SCIENTIFIC CONSULTING GROUP, INC.	66.000	SCGI 08251-12-1	EP-C-08-010	12,364
				<u>12,364</u>
Air Pollution Control Program Support				
HARVARD UNIVERSITY	66.001	HARVARD 01-123602	EPA RD-83428201-0	44,652
				<u>44,652</u>
Science To Achieve Results (STAR) Research Program				
UNIVERSITY OF WASHINGTON	66.509	UWASH 429111	EPA RD-8316901	500,544
NEW YORK UNIVERSITY MEDICAL CENTER	66.509	NYU RD-83374201-0	EPA	35,493
UNIVERSITY OF WASHINGTON	66.509	UWASH 566594	EPA RD-83374101	17,124
HARVARD UNIVERSITY	66.509	HARVARD 123392	RD-8227001	-540
				<u>552,621</u>
Science To Achieve Results (STAR) Fellowship Program				
CLARK UNIVERSITY	66.514	CLARK 2E046B	EPA CU-071664	67,150
				<u>67,150</u>
Hazardous Waste Management Grant Program for Tribes				

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
WATER ENVIRONMENT RESEARCH FOUNDATION	66.812	WERF U4R07	EPA	65,063
				<u>65,063</u>
Total Pass-through Programs:				<u>741,850</u>
Total: Environmental Protection Agency				<u>2,205,357</u>

Nat. Endowment for the Arts & Humanities
Direct Awards

Promotion of the Arts_Grants to Organizations and Individuals

NEA ARTS JOURNALISM INSTITUTE IN CLASSICAL MUSIC AND OPERA	45.024	NEA DCA 10-05		206,266
NEA COMPOSER PORTRAITS FY2011	45.024	11-3100-7047		25,000
				<u>231,266</u>

Promotion of the Humanities_Division of Preservation and Access

ENCYCLOPEDIA IRANICA	45.149	NEH PW-50328-09		178,972
ADVANCED PAPYROLOGICAL INFORMATION SYSTEM PHASE 6	45.149	NEH PW-50049-08		106,795
SUSTAINING CULTURAL HERITAGE: BURKE'S BROWN TOWER	45.149	NEH PF-50011-10		35,900
				<u>321,667</u>

Promotion of the Humanities_Research

THE UNFINISHED: INDIAN STONE CARVERS AT WORK	45.161	NEH RZ-50997-09		204,914
				<u>204,914</u>

Promotion of the Humanities_Professional Development

AMERICA ENGAGES EURASIA. 19TH-CENTURY PRESENT: STUDIES, TEACHING AND RESOURCES IN THEIR HISTORICAL GEOPOLITICAL FRAMES	45.163	EH-50234-10		100,759
				<u>100,759</u>

Promotion of the Humanities_Office of Digital Humanities

LEVERAGING "THE WISDOM OF THE CROWDS" FOR EFFICIENT TAGGING AND RETRIEVAL OF DOCUMENTS FROM THE HIST	45.169	NEH HD-51153-10		1,329
				<u>1,329</u>

National Leadership Grants

BUILT WORKS REGISTRY	45.312	LG-05-10-0104-10		163,055
				<u>163,055</u>

Total Direct Award Programs:

Total: Nat. Endowment for the Arts & Humanities

1,022,990
1,022,990

Other Agencies / Gov't
Direct Awards

Copyright Service

DEVELOPMENT AND MANAGEMENT OF A WEB PORTAL ON GEOSPATIAL DATA PRESERVATION	42.002	AMERTEH CU10-0787		95,683
				<u>95,683</u>

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
National Historical Publications and Records Grants				
THE SELECTED PAPERS OF JOHN JAY, PHASE III	89.003	NAR10-PC 50005-10		162,072
				<u>162,072</u>
Japan-U.S. Friendship Commission Grants				
2010-2011 JAPAN-U.S. FRIENDSHIP COMMISSION PRIZE FOR THE TRANSLATION OF JAPANESE	90.300	JAPUS NO. 10-16		22,057
				<u>22,057</u>
Annual Grant Competition				
MAKING AND COMMITTING TO PEACE: POLITICAL VULNERABILITY AND CIVIL WAR RESOLUTIONS	91.001	USIP #052-07F		14,124
LAND RIGHTS AND CONFLICT IN KENYA	91.001	USIP-146-08F		116
				<u>14,240</u>
Department of Homeland Security				
INTEGRATED INVESTIGATION OF POLYUREA COATINGS FOR INFRASTRUCTURE PROTECTION	97.000	HSHQDC-10-C-00080		226,380
				<u>226,380</u>
Total Direct Award Programs:				<u>520,432</u>
Pass-through Awards				
Central Intelligence Agency				
SCITOR CORPORATION	13.000	SCITOR G1073-006 SCO	CIA CU09-2936	127,456
CIVIONICS, LLC	13.000	CIVIONICS CU10-2870	GS-10F-0358K	23,095
CIVIONICS, LLC	13.000	CIVIONICS CU10-2870	GS-10F-0358K	14,512
				<u>165,063</u>
Assistance to Firefighters Grant				
ISABELLA GERIATRIC CENTER	97.044	IGC CU09-3856		105,196
				<u>105,196</u>
Centers for Homeland Security				
KANSAS STATE UNIVERSITY	97.061	KSUNI S11045	2010-ST-061-AG0001	160,202
				<u>160,202</u>
Other Non-Governmental				
NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGINE	99.000	09CI172801R0X00	09CI172801R0X00	92,444
				<u>92,444</u>
Total Pass-through Programs:				<u>522,905</u>
Total: Other Agencies / Gov't				<u>1,043,337</u>
Sub-Total: RESEARCH & DEVELOPMENT CLUSTER				<u>560,251,771</u>

ARRA FUNDED PROGRAMS

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Department of Health & Human Services				
Direct Awards				
Grants for Training in Primary Care Medicine and Dentistry Training and Enhancement				
ARRA-TRAINING IN PRIMARY CARE MEDICINE AND DENTISTRY: PHYSICIAN FACULTY DEVELOPMENT IN PRIMARY CARE	93.403	1 D5 CHP19229-01-01		358,558
				358,558
Equipment to Enhance Training for Health Professionals				
ARRA - EQUIPMENT TO ENHANCE TRAINING FOR HEALTH PROFESSIONALS (EETHP)- PUBLIC HEALTH TRAINING CENTERS (PHTC) PROGRAM	93.411	1 D76 HP20788-01-00		173,139
				173,139
Emergency Medical Services for Children				
IMPLEMENTATION OF THE PECARN TRAUMATIC BRAIN INJURY PREDICTION RULES USING COMPUTERIZED CLINICAL DECISION SUPPORT: AN IN	93.418	1 S02MC19289-01-00		554,021
				554,021
Trans-NIH Recovery Act Research Support				
ARRA-WASHINGTON HEIGHTS INITIATIVE COMMUNITY-BASED COMPARATIVE EFFECTIVENESS RESEARCH (WICER)	93.701	1 R01 HS019853-01 SC1		344,572
				344,572
Recovery Act – Comparative Effectiveness Research - AHRQ				
ARRA-WASHINGTON HEIGHTS INITIATIVE COMMUNITY-BASED COMPARATIVE EFFECTIVENESS RESEARCH (WICER)	93.715	1 R01 HS019853-01		885,830
ARRA-COMPARATIVE EFFECTIVENESS OF ENVIRONMENTAL INTERVENTION AND STANDARD CARE IN ABILITY TO REDUCE PHARMACOLOGIC THERAPY FOR	93.715	1 R01 HS019384-01		853,867
ARRA-COMPARATIVE EFFECTIVENESS OF ENVIRONMENTAL INTERVENTION AND STANDARD CARE IN ABILITY TO REDUCE PHARMACOLOGIC THERAPY FOR	93.715	1 R01 HS019384-01 PED		205,603
ARRA-COMPARATIVE EFFECTIVENESS OF ENVIRONMENTAL INTERVENTION AND STANDARD CARE IN ABILITY TO REDUCE PHARMACOLOGIC THERAPY FOR	93.715	1 R01 HS019384-01 NYP		88,355
ARRA-COMPARATIVE EFFECTIVENESS OF ENVIRONMENTAL INTERVENTION AND STANDARD CARE IN ABILITY TO REDUCE PHARMACOLOGIC THERAPY FOR	93.715	1 R01 HS019384-01 EHS		73,664
				2,107,319
Health Information Technology Professionals in Health Care				
ARRA-COLUMBIA CURRICULUM DEVELOPMENT CENTER	93.721	1 U24 OC000003-01		848,532
				848,532
Total Direct Award Programs:				4,386,141
Pass-through Awards				
Recovery Act – Comparative Effectiveness Research - AHRQ				
ARRA -RUTGERS UNIVERSITY	93.715	RUTGER 4207	R18 HS019937-01	89,050
				89,050
Total Pass-through Programs:				89,050
Total: Department of Health & Human Services (Excluding NIH)				4,475,191

National Institute of Health
Direct Awards

National Library of Medicine

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
CAUSAL INFERENCE ON NARRATIVE AND STRUCTURED TEMPORAL DATA TO AUGMENT DISCOVERY AND CARE	93.000	HHSN276201000024C		141,028
				141,028
Trans-NIH Recovery Act Research Support				
ARRA-SYSTEMS BIOLOGY OF TUMOR PROGRESSION AND DRUG-RESISTANCE	93.701	5 RC2 CA148308-02		1,526,211
ARRA-COMPARISON OF DEPRESSION INTERVENTION AFTER CORONARY SYNDROME (CODIACS)	93.701	5 RC2 HL101663-02		1,202,037
ARRA-CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.701	3 U01 AI069466-03S1		1,089,696
ARRA-COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS UNIT	93.701	3 U01 AI069470-03S1		1,012,379
ARRA-NORTHEAST BIODEFENSE CENTER	93.701	3 U54 AI057158-06S1		941,238
ARRA-RETINOID METABOLISM AND ALCOHOL INDUCED DISEASE	93.701	5 RC2 AA019413-02		896,866
ARRA-FAMILY CARDIAC CAREGIVER INVESTIGATION TO EVALUATE OUTCOMES (FIT-O)	93.701	5 R01 HL075101-06		841,860
ARRA-SYSTEMS BIOLOGY OF TUMOR PROGRESSION AND DRUG-RESISTANCE	93.701	1 RC2 CA148308-01		807,223
ARRA-IDENTIFICATION OF MASTER REGULATORS FOR STEM CELL PLURIPOTENCY AND SELF-RENEWAL	93.701	1RC1GM091240-01		788,934
ARRA-PROTEIN TRAFFICKING IN NEURODEGENERATIVE DISEASES	93.701	5 R01 NS050199-07		767,471
ARRA-THE NATIONAL STANDARD FOR NORMAL FETAL GROWTH - CLINICAL SITE EXPANSION (ARRA)	93.701	HHSN275200800013C		690,559
ARRA-REGENERATION OF CLINICALLY RELEVANT OROFACIAL TISSUES IN PRE-CLINICAL MODELS	93.701	5 RC2 DE020767-02		626,275
ARRA-METABOLISM IN HEART FAILURE TRANSLATIONAL RESEARCH CENTER	93.701	5 P30 HL101272-02		625,492
ARRA-BIOBEHAVIORAL ASSESSMENT OF STRESS IN ADOLESCENT PREGNANCY: PARINATAL OUTCOMES	93.701	5 R01 MH077144-02		617,788
ARRA-APPROPRIATE CARE OF URI IN CHILDREN OF LATINO IMMIGRANTS:THE ACURI PROJECT	93.701	5 RC1 MD004109-02		592,508
ARRA-PROTEIN THERAPY FOR ACUTE LUNG INJURY	93.701	1 RC1 HL099389-02		583,513
ARRA-INDUCIBLE MACROPHAGE SPECIFIC GENE EXPRESSION IN DISEASES	93.701	5 RC1 HL100384-02		561,706
ARRA-NETWORK DETERMINANTS OF RISK AMONG FORMERLY INCARCERATED LATINO MEN	93.701	5 RC1 MH088636-02		549,557
ARRA-USING FMRI TO MEASURE NEGATIVE SYMPTOMS IN SCHIZOPHRENIA	93.701	5 RC1 MH089084-02		536,806
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD-SUPPLEMENTAL FUNDING FOR THE ORGANIC SYNTHESIS COLLABORATIVE CENTER	93.701	3 UL1 RR024156-04S1		514,548
ARRA-PRENATAL ALCOHOL IN SUDDEN INFANT DEATH SYNDROME (SIDS) AND STILLBIRTH (PASS) NETWORK	93.701	3 U01 HD055155-04S1		512,544
ARRA-COMPARISON OF DEPRESSION INTERVENTION AFTER ACUTE CORONARY SYNDROME (CODIACS)	93.701	1 RC2 HL101663-01		511,429
ARRA-DEVELOPMENT OF BEHAVIORAL AND SOCIAL INTERVENTIONS THAT REDUCES STIGMA AND IMPROVE QUALITY AND ACCESSIBILITY OF HEALTH C	93.701	5 RC1 DA028284-02		509,330
ARRA-INTEGRATED DISCOVERY AND HYPOTHESIS TESTING OF NEW ASSOCIATIONS IN RARE DISEASES	93.701	5 R01 LM010140-02		505,360
ARRA-IMAGING SYSTEM FOR HIGH - THROUGHPUT PROTEIN CRYSTALLIZATION EXPERIMENTS	93.701	1 S10 RR026376-01		500,000
ARRA-AVANCE III 500 HIGH PERFORMANCE DIGITAL NMR SPECTROMETER	93.701	1 S10 RR025431-01A1		500,000
ARRA-MULTIPHOTON CONFOCAL MICROSCOPE	93.701	1 S10 RR025686-01A1		499,462
ARRA-NEUROIMAGING-BASED BIOMARKERS FOR TWO COMPONENTS OF PAIN	93.701	5 RC1 DA028608-02		497,061
ARRA-COLUMBIA AFM SYSTEM EQUIPMENT GRANT	93.701	1 S10 RR027943-01		496,358
ARRA-UPGRADE OF 600 MHZ NMR SPECTROMETER	93.701	1 S10 RR026540-01		495,000
ARRA-IDENTIFICATION OF COMPOUNDS TO TREAT CHARCOT-MARIE-TOOTH TYPE 2E NEUROPATHY	93.701	5 RC1 NS068131-02		476,167
ARRA-EARLY-LIFE BISPHENOL A, IMMUNE DYSREGULATION, AND INNER-CITY PEDIATRIC ASTHMA	93.701	5 RC2 ES018784-02		471,598
ARRA-IMMUNE RESPONSE TO ALLOGENEIC HESC-	93.701	1 RC1 HL100117-01		470,379
ARRA-PRENATAL ORGANOCHLORINE METABOLITES, THYROID FUNCTION AND DEVELOPMENT	93.701	5 R01 ES017024-02		469,474

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ARRA-THE NATIONAL STANDARD FOR NORMAL FETAL GROWTH - SONOLOGY LAB (ARRA)	93.701	HHSN275200800013C	SC1	466,550
ARRA-THE ROLE OF GENOME-CODED ME2 IN EPILEPSY	93.701	5 R21 NS070323-02		463,761
ARRA-DOWNSTREAM REGULATORS OF BETA-AMYLOID INDUCED NEURONAL DEATH	93.701	5 R01 NS043089-06		463,293
ARRA-IMPLICIT LEARNING IN OSTEOCYTE NETWORK UNDER MECHANICAL LOADING	93.701	5 RC1 AR058453-02		462,445
ARRA-MECHANISMS OF FATTY ACID UPTAKE BY CARDIAC MUSCLE	93.701	2 R01 HL073029-07		460,302
ARRA-UNDERSTANDING THE GENOMIC RISK ARCHITECTURE OF SCHIZOPHRENIA USING GENE EXPRESSION ANALYSIS IN MODEL SYSTEMS	93.701	5 RC1 MH088263-02		451,400
ARRA-A DATASET FOR THE STUDY OF THE SOCIAL DETERMINANTS OF HEALTH	93.701	5 RC2 MD004768-02		430,352
ARRA-A GWAS FOR IGA NEPHROPATHY, THE MOST COMMON FORM OF GLOMERULONEPHRITIS	93.701	5 RC1 DK087445-02		422,377
ARRA-PREDICTION OF RESPONSE TO REVLIMID	93.701	5 R21 HL089279-03		416,139
ARRA-INHIBITION SEPERATING TOUCH AND PAIN	93.701	5 R01 NS029797-16		403,547
ARRA-FLUORESCENT CHEMICAL TAGS FOR SINGLE-MOLECULE IMAGING IN CELLS	93.701	5 RC1 GM091804-02		401,081
ARRA-STRUCTURE AND MECHANISM OF THE AMP-ACTIVATED PROTEIN KINASE	93.701	5 R01 DK079953-02		397,099
ARRA-NOTCH FUNCATION IN VASCULAR BIOLOGY AND ANGIOGENESIS	93.701	5 R01 HL062454-11		392,743
ARRA-PRENATAL CYTOGENETIC DIAGNOSIS BY ARRAY-BASED COPY NUMBER ANALYSIS	93.701	3 R01 HD055651-03S1		383,489
ARRA-AN NLP APPROACH TO GENERATING PATIENT RECORD SUMMARIES	93.701	5 R01 LM010027-02		381,804
ARRA-THERONOSTIC MOLECULAR AUTOMATA FOR SPECIFIC CELL ELIMINATION	93.701	5 RC2 CA147925-02		381,497
ARRA-DRONABINOL NALTREXONE TREATMENT FOR OPIOID DEPENDENCE	93.701	5 R01 DA027124-02		376,822
ARRA-MECHANISMS OF TOLERANCE IN RECIPIENTS OF COMBINED KIDNEY AND BONE MARROW TRANSPLANT	93.701	5 R01 AI084074-03		369,727
ARRA-EXPLORING PERSISTENT EPIGENETIC CHANGES AFTER PRENATAL FAMINE EXPOSURE IN HUMANS	93.701	5 RC1 HD063549-02		368,757
ARRA-ELUCIDATION OF PREFRONTAL-AMYGDALA NEURAL CIRCUITRY WITH OPTOGENETIC TECHNIQUES	93.701	5 RC1 MH088458-02		368,549
ARRA-VALIDATING GFP RECONSTITUTION ACROSS SYNAPTIC PARTNERS (GRASP) METHODS TO DISSECT	93.701	5 RC1 NS069014-02		366,460
ARRA-GENOME-WIDE AND LINKAGE STUDY OF QUANTITATIVE EMPHYSEMA PHENOTYPES	93.701	5 RC1 HL100543-02		365,257
ARRA-COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITES - NOMA CERED	93.701	3 P60 MD000206-08S1		356,195
ARRA-MODELS OF VISUAL CORTICAL CIRCUITRY AND DEVELOPMENT	93.701	5 R01 EY01001-15		343,896
ARRA-MOLECULAR EVENTS IN URINARY TRACT FORMATION	93.701	3 R01 DK061459-07S1		337,632
ARRA-MOLECULAR PATHOGENESIS OF BASAL-LIKE BREAST CANCER	93.701	5 P01 CA097403-07		336,805
ARRA-DOSE AND TREATMENT SELECTION IN CLINICAL TRIALS	93.701	5 R01 NS055809-05		314,991
ARRA-MOLECULAR PATHOGENESIS OF BASAL-LIKE BREAST CANCER	93.701	5 P01 CA097403-07	P2	312,153
ARRA-MOLECULAR CONTROL OF PLASMACYTOID DENDRITIC CELL DEVELOPMENT AND FUNCTION	93.701	3 R01 AI072571-02S1		311,728
ARRA-FACULTY RECRUITMENT ON THE NEUROBIOLOGY OF AGING	93.701	5 P30 AG036453-02		311,434
ARRA-SIRTUIN/FOXO SIGNALING IN THE REGULATION OF BONE MASS	93.701	3 R01 AR055931-02S1		308,229
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD-ADVANCING INSTITUTIONAL EFFORTS TO SUPPORT RESEARCH MENTORING FOR CLINICAL TRAN	93.701	3 UL1 RR024156-04S3		294,990
ARRA-GAB2 IN METASTATIC MELANOMA	93.701	5 R01 CA1138678-02		281,843
ARRA-BIO-BEHAVIORAL CHRONIC DISEASES MANAGEMENT BY FAMILIES OF YOUNG MINORITY CHILDREN	93.701	5 RC1 MD004257-02		277,983
ARRA-LIFE PROJECTS AND ANTIRETROVIRAL THERAPY: THE SOCIAL IMPACTS OF SCALE-UP	93.701	1 R01 HD057792-01A2		275,596
ARRA-MECHANISMS OF T-CELL LEUKEMOGENESIS INDUCED BY NOTCH1	93.701	3 R01 CA120196-03S1		273,632
ARRA-NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	93.701	3 R01 NS012969-34S1		268,813

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ARRA-REGENERATION OF CLINICALLY RELEVANT OROFACIAL TISSUES IN PRE-CLINICAL MODELS	93.701	1 RC2 DE020767-01		265,012
ARRA-DEVELOPING A NORTH AMERICAN MITOCHONDRIAL DISEASE CONSORTIUM (NAMDC)	93.701	5 RC1 NS070232-02		259,176
ARRA-ASSESS THE EFFECTS OF PRE- AND POSTNATAL EXPOSURE TO THE ORGANOPHOSPHORUS	93.701	3 R01 ES015579-01A2S		256,168
ARRA-MECHANISMS OF P53 ACTIVATION IN TUMOR SUPPRESSION	93.701	5 R01 CA098821-07		251,193
ARRA-CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS - HARLEM	93.701	3 U01 AI069466-03 HAR		249,201
ARRA-THERONOSTIC MOLECULAR AUTOMATA FOR SPECIFIC CELL ELIMINATION	93.701	1 RC2 CA147925-01		248,412
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.701	3 TL1 RR024158-05S1		247,235
ARRA-THE NEUROPHYSIOLOGY OF VISUAL ENVIRONMENTAL MEMORY	93.701	1 R21 EY020631-01A1		242,078
ARRA-IPS CELL-DERIVED NEURONS CARRYING AN ALLELIC SERIES OF CNTNAP2 STRUCTURAL MUTATIONS	93.701	5 RC1 MH088702-02 SC1		241,364
ARRA-GENETIC CONTROL OF URETER AND KIDNEY DEVELOPMENT	93.701	3 R01 DK082715-01S1		234,356
ARRA-T-BOX GENE EFFECTS ON LEFT-RIGHT BODY AXIS DETERMINATION	93.701	5 R01 HD056248-02		231,707
ARRA-CLINICAL RESEARCH ON NONALCOHOLIC FATTY LIVER DISEASE	93.701	3 U01 DK061734-09S1		226,511
ARRA-CONNEXIN ACETYLATION: IMPACT ON GAP JUNCTION FUNCTION AND HDAC INHIBITOR RESPONSE CONNEXIN ACETYLATION	93.701	5 R01 GM088660-02		224,510
ARRA-GENES THAT INFLUENCE LIN-12/NOTCH ACTIVITY IN C. ELEGANS	93.701	5 R01 CA095389-08		224,037
ARRA-PREVENTION OF PRETERM BIRTH IN HIGH RISK NULLIPAROUS PATIENTS- ADMIN SUPPLEMENT	93.701	3 U10 HD063047-01S1		222,575
ARRA-FUNCTION OF THE BROMODOMAIN PROTEIN BRDT IN SPERMATOGENESIS	93.701	3 R01 GM081767-02S1		219,918
ARRA-IPS CELL-DERIVED NEURONS CARRYING AN ALLELIC SERIES OF CNTNAP2 STRUCTURAL MUTATIONS	93.701	5 RC1 MH088702-02		219,286
ARRA-ENDOCRINE DISRUPTION IN PREGNANT WOMEN: THYROID DISRUPTION AND INFANT DEVELOPMENT	93.701	5 R21 ES016610-02		216,291
ARRA-IMAGING OF COGNITION, LEARNING AND MEMORY IN AGING	93.701	2 R56 AG026158-06A1		212,491
ARRA-MUCOSAL MEMORY T CELLS AT THE VANGUARD OF HUMAN HOST DEFENSE	93.701	7 RC1 AI086164-02		210,064
ARRA-GENOME WIDE ASSOCIATION STUDIES IN ALOPECIA AREATA	93.701	3 R01 AR056016-02S2		205,968
ARRA-ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHORT STUDY	93.701	3 U01 DK062483-09S1		199,422
ARRA-GENETIC ANALYSIS OF NEMATODE CELL DIFFERENTIATION	93.701	3 R01 GM030997-28S1		196,945
ARRA-SPECTRA-PHYSICS MAI TAI HP LASER	93.701	1 S10 RR026895-01		195,800
ARRA-CHARACTERIZATION OF THE INNATE IMMUNE RESPONSE TO CRYSTALLINE SILICA	93.701	5 R21 ES016835-02		190,585
ARRA-DRUG ABUSE, ADOLESCENT GIRLS, AND PREVENTION: YMCA COMMUNITY	93.701	5 R21 DA024618-02		185,765
ARRA-EARLY-LIFE BISPHENOL A, IMMUNE DYSREGULATION, AND INNER-CITY PEDIATRIC ASTHMA	93.701	5 RC2 ES018784-02 S1		184,093
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.701	3 UL1 RR024156-05S1		180,479
ARRA-DIRECT WRITE MICROFABRICATION PLATFORM FOR BIOMEDICAL RESEARCH	93.701	1 S10 RR028089-01		179,800
ARRA-MOLECULAR PATHOGENESIS OF BASAL-LIKE BREAST CANCER CORE A	93.701	5 P01 CA097403-07 COA		178,243
ARRA-NORTHEAST BIODEFENSE CENTER SCOPE	93.701	3 U54 AI057158-06 BIO		176,499
ARRA-CRANIOFACIAL TISSUE ENGINEERING	93.701	3 R01 DE016525-05S1		176,080
ARRA-BRIDGING THE SEMANTIC GAP BETWEEN RESEARCH ELIGIBILITY CRITERIA AND CLINICAL DATA	93.701	3 R01 LM009886-02S1		174,515
ARRA-RETINOID METABOLISM AND ALCOHOL INDUCED DISEASE	93.701	5 RC2 AA019413-02		172,524
ARRA-MODELING OF S. AUREUS TRANSMISSION IN NORTHERN MANHATTAN	93.701	3 R01 A177690-02S1		170,642
ARRA-SYSTEMS BIOLOGY OF TUMOR PROGRESSION AND DRUG-RESISTANCE	93.701	5 RC2 CA148308-02		165,394
ARRA-MOLECULAR EPIDEMIOLOGY AND LUNG CANCER: A NESTED CASE-CONTROL STUDY	93.701	3 R01 CA127532-02S1		165,300

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ARRA-NEUROPHYSIOLOGY UNDERLYING NEURAL REPRESENTATIONS OF VALUE	93.701	3 R01 MH082017-03S1		164,067
ARRA-REGULATION OF THE DNA DAMAGE RESPONSE BY THE MRN-ATM PATHWAY	93.701	3 R01 CA092245-08S1		163,567
ARRA-INFERRING GENE REGULATORY CIRCUITRY FROM FUNCTIONAL GENOMICS DATA	93.701	3 R01 HG003008-05A1S		155,717
ARRA-DEVELOPING A NORTH AMERICAN MITOCHONDRIAL DISEASE CONSORTIUM (NAMDC)	93.701	5 RC1 NS070232-02		155,215
ARRA-CYTOPLASMIC DAMAGE AND GENOTOXICITY	93.701	3 R01 ES012888-05		151,071
ARRA-CARDIOVASCULAR DISEASE: DEPRESSION AND TELOMERE LENGTH	93.701	3 R01 HL091099-01A1S		149,377
ARRA-MECHANISM OF ACTION OF THE LISSENCEPHALY GENE LIS1	93.701	3 R01 HD040182-10S1		149,318
ARRA-DEVELOPMENT OF 18F-LABELED AGONIST PET PROBES FOR QUANTIFYING 5-HT1A RECEPTORS	93.701	5 R21 MH085227-02		144,360
ARRA-CANCER CENTER SUPPORT GRANT	93.701	3 P30 CA013696-36S2		141,066
ARRA-STIMULANTS AND VASCULAR EVENTS IN ADHD	93.701	5 R21 MH079905-02		136,744
ARRA-FLUORESCENT CHEMICAL TAGS FOR SINGLE-MOLECULE IMAGING IN CELLS	93.701	5 RC1 GM091804-02 KAU		136,544
ARRA-THE SKELETAL EFFECTS OF REDUCING INFLAMMATION IN TYPE 2 DIABETES MELLITUS	93.701	1 RC4 DK090776-01		135,841
ARRA-MOLECULAR PATHOGENESIS OF BASAL-LIKE BREAST CANCER CORE B	93.701	5 P01 CA097403-07 COB		134,579
ARRA-CLINICAL VALIDATION OF CARDIAC STRAIN MEASURES WITH REAL-TIME 4D ULTRASOUND	93.701	3 R01 HL086578-01A2S		133,694
ARRA-RISK FACTORS ACCOUNTING FOR NEIGHBORHOOD DIFFERENCES IN ASTHMA PREVALENCE - LAMONT	93.701	3 R01 ES014400-03 LAM		132,238
ARRA-NEW APPROACH TOWARDS MAPPING OF COMPLEX HUMAN DISORDERS	93.701	3 R01 GM070789-06S1		131,896
ARRA-DEVELOPING A PET BIOMARKER TO PREDICT RESPONSE IN TREATMENT-RESISTANT DEPRESSION	93.701	5 RC1 MH088405-02		128,473
ARRA-CALORIC RESTRICTION AND AGIONG IN EYES	93.701	3 R01 EY015293-05S2		125,021
ARRA-EPIGENETIC REGULATION BY PWWP DOMAIN PROTEINS	93.701	3 R01 GM085145-02S1		117,777
ARRA-CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIOSIMETRY	93.701	3 U19 AI067773-05S1		117,154
ARRA-CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.701	3 P30 NR010677-03S1 SC2		115,933
ARRA-BIO-BEHAVORIAL CHRONIC DISEASE MANAGEMENT BY FAMILIES OF YOUNG MINORITY CHILDREN	93.701	5 RC1 MD004257-02 SC1		113,764
ARRA-IPS CELL-DERIVED NEURONS CARRYING AN ALLELIC SERIES OF CNTNAP2 STRUCTURAL MUTATIONS	93.701	5 RC1 MH088702-02 SC2		110,838
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD-AMPLIFYING THE PACE OF COLLABORATIVE AND MULTIDISCIPLINARY PILOT RESEARCH (CAMP	93.701	3 UL1 RR024156-04S2		110,338
ARRA-PATHOGENESIS OF NEURODEGENERATIVE DISEASES CAUSED BY MUTATIONS IN SENATAXIN	93.701	3 R01 NS064253-02S1		109,008
ARRA-EARLY-LIFE BISPHENOL A, IMMUNE DYSREGULATION, AND INNER-CITY PEDIATRIC ASTHMA	93.701	1 RC2 ES018784-01		106,207
ARRA-STRUCTURAL MECHANISM OF K CHANNEL MODULATION BY CELLULAR REDOX STATE	93.701	3 R01 HL086392-04S1		104,129
ARRA-INNOVATIVE MENTORING AND MPH EDUCATION IN RESEARCH AND SCIENTIFIC EXCELLENCE IN COMPARATIVE EFFECTIVENESS RESEARCH PROGR	93.701	1 KM1 CA156709-01		103,297
ARRA-PHTHALATE EXPOSURE AND INNER CITY PEDIATRIC ASTHMA SUPPLEMENT	93.701	3 R01 ES014393-03S1		103,200
ARRA-COMBINED ULTRASOUND/MOLECULAR ANALYSIS OF TUMOR RESPONSE TO VEGF BLOCKADE	93.701	5 R21 CA139173-02 KAN		102,916
ARRA-NUCLEOCYTOPLASMIC INTERACTIONS AND DYNAMICS IN EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.701	3 R01 NS059352-03S1		101,185
ARRA-PATHOGENIC ROLE OF ISLET CELL ABS IN AUTOIMMUNE DIABETES	93.701	3 R01 DK070999-04S1		100,426
ARRA-ASSEMBLY AND PLACEMENT OF THE CELL DIVISION RING	93.701	3 R01 GM056836-12S1R		99,998
ARRA-PHARMACOVIGILANCE USING NATURAL LANGUAGE PROCESSING, STATISTICS, AND THE EHR	93.701	3 R01 LM010016-01S2		99,484
ARRA-WHOLE GENOME ASSOCIATION STUDY OF ORAL CANCER	93.701	1 R56 DE020093-01 R2		97,167
ARRA-BIOLOGY OF STEM CELLS IN THE ADULT MAMMALIAN BRAIN	93.701	3 R01 NS053884-03S1		94,875
ARRA-ASYMMETRIC SYNTHESIS OF MARCOLIDE ANTIBIOTICS	93.701	3R01 GM058133-09A1S1		91,079

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ARRA-FACULTY RECRUITMENT ON THE NEUROBIOLOGY OF AGING	93.701	1 P30 AG036453-01		90,099
ARRA-NEUROTROPHIC FACTOR DEPRIVATION AND NEURAL CELL DEATH	93.701	3 R01 NS033689-15S1		89,966
ARRA-REGULATION OF HCN CHANNEL TRAFFICKING AND FUNCTION IN THE BRAIN BY TRIP8B	93.701	3 R01 NS036658-11S1		88,310
ARRA-BAYESIAN BIOLUMINESCENCE IMAGE RECONSTRUCTION FOR THERAPY MONITORING OF HORMONE-REFRACTORY PROSTATE CANCER	93.701	1 R21 EB011772-01A1		87,365
ARRA-CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.701	3 P30 NR010677-03S2		86,713
ARRA-REGULATION OF CYTOSOLIC DOPAMINE BY CA2+ IN VENTRAL MIDBRAIN NEURONS	93.701	5 R03 NS064373-02		86,710
ARRA-THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.701	3 P50 ES015905-03S1		85,933
ARRA-THE CONTRIBUTION OF ADULT-BORN NEURONS TO HIPPOCAMPAL STRUCTURE AND CONNECTIVITY	93.701	3 K08 MH079088-03S1		84,831
ARRA-THE CENTRAL MELANOCORTIN SYSTEM AND REGULATION OF ENERGY BALANCE	93.701	3 R01 DK080003-03S1		84,031
ARRA-COMBINED ULTRASOUND/MOLECULAR ANALYSIS OF TUMOR RESPONSE TO VEGF BLOCKADE	93.701	5 R21 CA139173-02		83,555
ARRA-ROLE OF FAS DEATH RECEPTOR SIGNALING IN MOTOR NEURON DEGENERATION	93.701	3 R01 NS056422-03S2		81,604
ARRA-A PILOT STUDY OF STATIN THERAPY AND RISK OF MALIGNANT GLIOMA	93.701	3 K07 CA127468-02S1		78,428
ARRA-GENETIC MECHANISMS IN SKIN DISEASES	93.701	5 T32 AR007605-12		75,619
ARRA-NOVEL METHOD TO IDENTIFY COMPETING PROTEIN-PROTEIN BINDERS	93.701	5 R03 LM009739-02		74,930
ARRA-MITOCHONDRIAL MOTILITY AND INHERITANCE	93.701	3 R01 GM045735-15S1		74,045
ARRA-PRENATAL ORGANOCHLORIDE EXPOSURE AND MALE REPRODUCTION	93.701	3 R01 ES012231-04S1		72,086
ARRA-AN INTEGRATED SYSTEM FOR DNA SEQUENCING BY SYNTHESIS	93.701	3 R01 HG003582-06S1		70,850
ARRA-IMMUNOLOGIC EFFECTS AND A STRUCTURAL	93.701	1 DP2 OD006513-01		69,560
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3 P30 DK063608-07 PT2		68,285
ARRA-REDUCING HEALTH DISPARITIES THROUGH INFORMATICS	93.701	3 T32 NR007969-09S1		66,761
ARRA-ADIPOSE TISSUE MACROPHAGE PHENOTYPE AND FUNCTION	93.701	3 R01 DK066525-07S1		61,828
ARRA-ALCOHOL IN AVIATION AND MOTOR CARRIERS	93.701	3 R01 AA009963-15S2		61,586
ARRA-CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.701	3 P30 NR010677-03S1		61,560
ARRA-SUMMER IMMUNOLOGY RESEARCH PROGRAM FOR HIGH SCHOOL SCIENCE TEACHERS	93.701	3 R25 AI080566-02S1		59,633
ARRA-NUCLEAR MAGNETIC RESONANCE STUDIES OF STRUCTURES AND DYNAMICS OF PROTEINS	93.701	3 R01 GM050291-15S1		58,635
ARRA-A CELL-BASED HTS FOR DELAYED DEATH INHIBITORS OF THE MALARIAL PARASITE PLASTID	93.701	3 R21 NS059500-01S2		57,370
ARRA-FUNCTIONAL DATA ANALYSIS OF LONGITUDINALLY MEASURED GENETIC TRAITS	93.701	5 R03 AG031113-02		55,926
ARRA-BARIATRIC SURGERY FOR MORBID OBESITY: CLINICAL & PATHOPHYSIOLOGIC CONSEQUENCES	93.701	3 R01 DK072526-04S1		55,205
ARRA-CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDESERVED (CEBP)	93.701	3 P30 NR010677-03S1 SC1		54,552
ARRA-RISK FACTORS FOR SITE-SPECIFIC METASTASIS IN ESOPHAGEAL CANCER	93.701	3 K07 CA132892-02S1		53,813
ARRA-EARLY DETERMINANTS OF MAMMOGRAPHIC DENSITY	93.701	3 R01 CA104842-05S1		53,687
ARRA-VITAMIN A DEPENDENT EVENTS IN URINARY TRACT FORMATION	93.701	1 R56 DK082963-01		53,138
ARRA-MOLECULAR GENETICS OF CYTOPLASMIC DYEIN	93.701	3 R01 GM047434-18S1		53,000
ARRA-PHARMACOVIGILANCE USING NATURAL LANGUAGE PROCESSING, STATISTICS AND THE EHR	93.701	3 R01 LM010016-01S1		52,779
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3P30 DK063608-07S2 PT1		52,153
ARRA-BARIATRIC SURGERY, GASTRIC STIULATION: METABOLIC EFFECTS	93.701	3 R01 DK072011-05S1		51,619
ARRA-CANCERS IN OLDER MINORITY POPULATIONS: CARIBBEAN AMERICAN EMPHASIS	93.701	3 U54 CA101598-05S1		51,434

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ARRA-PROGENITOR CELLS OF THE MOUSE PROSTATE EPITHELIUM	93.701	3 R01 DK076602-05S1		49,200
ARRA-IDENTIFICATION AND FUNCTIONAL ANALYSIS OF RENAL STEM CELLS	93.701	3 K08 DK078014-03SI		48,562
ARRA-CELLULAR AND MOLECULAR FOUNDATIONS OF BIOMEDICAL SCIENCE	93.701	3 T32 GM008798-09S1		47,866
ARRA-THERONOSTIC MOLECULAR AUTOMATA FOR SPECIFIC CELL ELIMINATION	93.701	1 RC2 CA147925-01 SCI		47,856
ARRA-A DATASET FOR THE STUDY OF THE SOCIAL DETERMINANTS OF HEALTH	93.701	1 RC2 MD004768-01		47,532
ARRA-THERONOSTIC MOLECULAR AUTOMATA FOR SPECIFIC CELL ELIMINATION	93.701	5 RC2 CA147925-02 SC1		46,825
ARRA-DEFINING A NOVEL TRIGGER FOR APOPTOSIS	93.701	3 R01 GM085081-01S1		46,665
ARRA-CELL POLARITY AND AGING	93.701	5 F31 AG034835-02		46,378
ARRA-EEG SYNCHRONY, PERINATAL RISK AND OUTCOME: ANALYSIS OF CHIME DATA	93.701	5 R03 HD060671-02		45,579
ARRA-RELIGIOUS RESPONSES TO HIV/AIDS IN BRAZIL	93.701	3 R01 HD050118-05S1		44,278
ARRA-NEIGHBORHOOD ENVIRONMENTS AND DISPARITIES IN OBESITY RATES IN NEW YORK CITY	93.701	3 R01 DK079885-02S1		43,568
ARRA-SELF-REGULATORY CONTROL AND HABIT LEARNING IN ADOLESCENTS WITH BULIMIA NERVOSA	93.701	3 K01 MH077652-04S1		41,518
ARRA-PROXIMO-DISTAL PATTERNING IN THE DROSOPHILA APPENDAGES	93.701	3 R01 GM058575-11S1		41,015
ARRA-TRAINING PROGRAM IN COMPUTATIONAL BIOLOGY	93.701	3 T32 GM082797-02S1		39,402
ARRA-GENETIC ANALYSIS OF PEA3 TRANSCRIPTION FACTORS AND KIDNEY DEVELOPMENT	93.701	3 R01 DK075578-04S3		36,031
ARRA-BLOOD-BORNE INFECTION SCREENING IN AN AFGHAN ANTENATAL POPULATION	93.701	3 K01 TW007408-04S1		35,412
ARRA-AUTOMATED METHODS FOR THE MEDIA ANALYSIS OF HEALTH NEWS COVERAGE	93.701	5 R36 MD005006-02		35,327
ARRA-HIPPOCAMPAL NEUROGENESIS: MECHANISMS OF ANTIDEPRESSANT ACTION	93.701	3 K08 MH076083-04S1		35,118
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD - AMPLIFYING THE PACE OF COLLABORATIVE AND MULTIDISCIPLINARY PILOT RESEARCH (CA	93.701	3 UL1 RR024156-04S2 S5		34,520
ARRA-ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHORT STUDY	93.701	3 U01 DK062483-09S1		33,482
ARRA-NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS-CORE A	93.701	3 P50 NS049060-05S2		32,392
ARRA-IN-VIVO OPTICAL IMAGING OF NEUROVASCULAR COUPLING AND CEREBRAL METABOLISM	93.701	3 R01 NS063226-02S1		31,747
ARRA-REJECTION SENSITIVITY AND SELF-REGULATION IN PERSONALITY DISORDER	93.701	3 R01 MH081948-03S2		29,775
ARRA-CALPAIN INHIBITORS AGAINST ALZHEIMER'S DISEASE	93.701	3 U01 AG028713-03S1		29,403
ARRA-STRUCTURE AND MECHANISM OF THE AMP-ACTIVATED PROTEIN KINASE	93.701	1 R02 DJ079953-01A1		29,317
ARRA-CLINICAL AND TRANSLATIONAL SCIENCE AWARD - AMPLIFYING THE PACE OF COLLABORATIVE AND MULTIDISCIPLINARY PILOT RESEARCH (CA	93.701	3 UL1 RR024156-04S2 S1		28,825
ARRA-THE EFFECT OF THE 1918 INFLUENZA PANDEMIC ON SEASONAL INFLUENZA IN THE U.S.	93.701	5 F31 AI077314-02		27,961
ARRA-MECHANISMS OF CELL COMPETITION THAT REGULATE GROWTH DURING DEVELOPMENT	93.701	3 R01 GM078464-04SI		27,872
ARRA-CYTOKINES CONVERT EPITHELIAL PRECURSORS TO NEPHRONS	93.701	3 R01 DK058872-09S1		27,635
ARRA-EARLY-LIFE BISPHENOL A, IMMUNE DYSREGULATION, AND INNER-CITY PEDIATRIC ASTHMA	93.701	1 RC2 ES018784-01 S1		27,452
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3 P30 DK063608-07 SC		27,128
ARRA-BONE QUALITY AND MECHANICAL COMPETENCE IN CHRONIC KIDNEY DISEASE	93.701	3 K23 DK080139-02S1		26,897
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3P30 DK063608-07S2 PT3		26,597
ARRA-MODELS OF VISUAL CORTICAL CIRCUITRY AND DEVELOPMENT	93.701	5 R01 EY01001-14		26,428
ARRA-REGULATION OF DNA REPLICATION BY MCM PROTEINS	93.701	3 R01 GM077495-02S1		26,253
ARRA-STRUCTURAL BASIS OF CA2+ CHANNEL FUNCTION AND REGULATION	93.701	3 R01 NS053494-03S1		25,487
ARRA-NOISE EXPOSURE IN SUBWAY RIDERS: ADMINISTRATIVE SUPPLEMENT	93.701	3 R21 ES015347-02S2		23,785

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ARRA-PATHOGENIC ROLE OF ISLET CELL ABS IN AUTOIMMUNE DIABETES	93.701	3 R01 DK070999-03S1		22,085
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3 P30 DK063608-07 PT4		21,590
ARRA-CANCER CENTER SUPPORT GRANT - ADOPT SUPPLEMENT	93.701	3 P30 CA013696-36S3		20,366
ARRA-ROLE OF MONONUCLEAR LEUKOCYTES IN IMMUNITY	93.701	3 R01 AI020516-25S1		20,267
ARRA-GENETICS OF RENAL HYPODYSPLASIA	93.701	3 R01 DK080099-02S1		18,243
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3 P30 DK063608-07 PT6		15,636
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3 P30 DK063608-07 PT5		15,084
ARRA-RETINOID RECEPTOR ANTAGONISTS AS NOVEL MALE	93.701	3 U01 HD060479-02S1		14,039
ARRA-REGULATION OF APOB SECRETION IN INBRED MOUSE STRAINS	93.701	3 R01 HL0262583-08S1		13,183
ARRA-ROLE OF T-BOX GENES IN MOUSE DEVELOPMENT	93.701	3 R37 HD033082-14S1		10,199
ARRA-ION CHANNEL REGULATION BY MACROMOLECULAR COMPLEXES	93.701	3 R01 HL068093-07S1		9,690
ARRA-WORK-FAMILY POLICIES AND CHILD AND FAMILY WELL-BEING	93.701	3 R01 HD047215-04S1		9,657
ARRA-RISK FACTORS FOR ACCOUNTING FOR NEIGHBORHOOD DIFFERENCES IN ASTHMA PREVALENCE	93.701	3 R01 ES014400-03S2		8,537
ARRA-RISK FACTORS ACCOUNTING FOR NEIGHBORHOOD DIFFERENCES IN ASTHMA PREVALENCE	93.701	3 R01 ES014400-03S1		8,396
ARRA-BIVENTRICULAR PACING AFTER CARDIOPULMONARY BYPASS	93.701	3 R01 HL080152-03S1		8,381
ARRA-PATHOGENESIS OF EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.701	3 R01 AR048997-06A2S		8,166
ARRA-RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID) REU SUPPLEMENT	93.701	3 U01 ES016074-03S1		8,050
ARRA-GENETIC ANALYSIS OF PEA3 TRANSCRIPTION FACTORS AND KIDNEY DEVELOPMENT	93.701	3 R01 DK075578-04S1		8,011
ARRA-NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.701	3 P50 NS049060-05S1		7,894
ARRA-GENETIC MECHANISMS IN SKIN DISEASES	93.701	2 T32 AR007605-11A1		7,887
ARRA-NOVEL METHOD TO IDENTIFY COMPETING PROTEIN-PROTEIN BINDERS	93.701	1 R03 LM009739-01		7,540
ARRA-GAB2 IN METASTATIC MELANOMA	93.701	5 R01 CA1138678-03		7,010
ARRA-ELUCIDATING THE MECHANISMS OF DNA RECOMBINATION	93.701	3 R01 GM074739-04S1		6,293
ARRA-VARIABLE DOSE RATE X-RAY IRRADITATOR	93.701	1 S10 RR027670-01		5,017
ARRA-CAREGIVERS" STRENGTHS AND SKILLS IN MANAGING OLDER CANCER PATIENTS" SYMPTOMS	93.701	3 R01 CA115315-05S1		4,115
ARRA-DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.701	3 P30 DK063608-07S2		3,357
ARRA-DISCOVERING AND APPLYING KNOWLEDGE IN CLINICAL DATABASES	93.701	3 R01 LM006910-09S1		1,344
ARRA-CELL POLARITY AND AGING: NRSA	93.701	1 F31 AG034835-01		414
ARRA-HEIDELBERG SPECTRALIS OCT	93.701	1 S10 RR026748-01		250
ARRA-ROLE OF T-BOX GENES IN MOUSE DEVELOPMENT	93.701	3 R37 HD033082-13S1		-534
ARRA-MRNA SYNTHESIS IN ANIMAL CELLS - 3' END FORMATION	93.701	3 R01 GM028983-29S1		-1,108
ARRA-GENETIC VARIATION IN AGE-RELATED MACULAR DEGENERATION	93.701	3 R01 EY013435-08S1		-7,942
ARRA-CROSS-TALK BETWEEN ESTROGEN AND T CELLS MEDIATED PATHWAYS IN LUPUS	93.701	1 R01 AI076474-01		-30,560
				52,772,646
Total Direct Award Programs:				52,913,674

Pass-through Awards

National Institute on Drug Abuse

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ARRA -NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.000	RFMH 1007967-1-24812	HHSN-271--2009-00020C	267,579
ARRA -SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.000	CRB-DCR01-S-09-00301	HHSN272200900001/2/3I	11,215
				278,794
Trans-NIH Recovery Act Research Support				
ARRA -JACKSON (HENRY M.) FNDN FOR THE ADVANCEMENT OF MILITARY MEDICIN	93.701	HJFAMM 671292	3 U01 MH087981-01S1	537,033
ARRA -UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.701	UNC-CH 5-30772	3 R01 MH80403-03S1	530,528
ARRA -EMORY UNIVERSITY	93.701	EMORYU S330256	1 RC2 HD064525-01	426,137
ARRA -UNIVERSITY OF CALIFORNIA, DAVIS	93.701	UCD SUB0900209-1	3 U24 RR018144-07S2	294,349
ARRA -ARIZONA STATE UNIVERSITY	93.701	ASU 10-326/11-531	RRC2HG0005625-01	292,155
ARRA -NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.701	SRFMH CU09-3133	1 R01 MH089582-01	279,670
ARRA -DUKE UNIVERSITY	93.701	DUMC 203-0454	5 RC2 NS070344-01	271,175
ARRA -REGENTS OF THE UNIVERSITY OF MINNESOTA	93.701	UMINN A001026901	1RC1CA145044-01	221,941
ARRA -UNIVERSITY OF MASSACHUSETTS, WORCESTER	93.701	UMASS 6114403/RFS900	1 RC1 HL099759-01	191,719
ARRA -MAHARISHI UNIVERSITY OF MANAGEMENT	93.701	MUHAR CU10-1745	RC1 HL100386	177,225
ARRA -BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.701	BWH 105113	1 RC1 CA145229-01	169,913
ARRA -MCLEAN HOSPITAL	93.701	MCLEANH CU09-2976	1 RC2NS070276-01	147,259
ARRA -YALE UNIVERSITY	93.701	YU M10A10657	1RC1 DK086800-01	146,947
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	JH 2000818531 SC1	5 RC2 NS069395-02	139,153
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	JH 2000818531	5 RC2 NS069395-02	130,901
ARRA -HARVARD MEDICAL SCHOOL	93.701	HMS 158196.0202	1 RC2 DE020759-01	129,350
ARRA -HEALTH RESEARCH INCORPORATED	93.701	HRI 3731-01	3R01GM04484-20S1	121,319
ARRA -ALASKA NATIVE TRIBAL HEALTH CONSORTIUM	93.701	ANTHC CU10-0917	5 U01NS048069-04	117,318
ARRA -TULANE UNIVERSITY	93.701	TULANE TUL-HSC-237-1	3 U01 HD052104-06S1	111,744
ARRA -UNIVERSITY OF PENNSYLVANIA	93.701	UPENN 553067	2-R01-AG-015116-11A2	97,922
ARRA -NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.701	RFMH 1007886-1-24791	1R01 DA023091-01A2	94,295
ARRA -BOSTON UNIVERSITY	93.701	BU GC208195NGC	5 RC2 GM092602-02	90,377
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	JH 2000829673	5 RC2 NS069395-02	86,988
ARRA -NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.701	SRFMH 88975	3 R01 DA023733-02S1	82,278
ARRA -ALBERT EINSTEIN COLLEGE OF MEDICINE	93.701	AECM 9-526-3742	3 UL1 RR025750-02S4	80,850
ARRA -REGENTS OF THE UNIVERSITY OF MINNESOTA	93.701	UMINN N001354901	1 R01 ES017384-01	71,897
ARRA -UNIVERSITY OF MASSACHUSETTS, WORCESTER	93.701	UMASS 6114667/RF9002	RC1 NR011612-01	70,885
ARRA -MCLEAN HOSPITAL	93.701	MCLEANH CU09-4155	1 RC2 NS070276-01	69,092
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	JH 2000818531	1 RC2 NS069395-01	64,184
ARRA -RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.701	RFCUNY CU 11-0257	3 G12 RR003037-25S	60,758
ARRA -UNIVERSITY OF ARKANSAS	93.701	UARK #034748	R01MH089466-02	55,421
ARRA -TUFTS UNIVERSITY SCHOOL OF MEDICINE	93.701	TUFTS CU09-2752	3 P41 EB002520-06A1S1	51,173
ARRA -UNIVERSITY OF PENNSYLVANIA	93.701	UPENN CU10-3279	3U19-AI083022-02S2	51,036

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ARRA -UNIVERSITY OF PENNSYLVANIA	93.701	UPENN 555023	3-U19-AI-083022-02S1	50,696
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	JH 2000818531 SC1	1 RC2 NS069395-01	50,606
ARRA -NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.701	SRFMH 903-1737B	1 R01 ES019004-01	45,876
ARRA -TULANE UNIVERSITY	93.701	TULANE TUL-HSC-183-0	1 U01 AI082053-01	42,809
ARRA -VANDERBILT UNIVERSITY MEDICAL CENTER	93.701	VANDER VUMC35937	1 R01 DK080095-01A1	38,743
ARRA -UNIVERSITY OF MIAMI	93.701	UMIAMI CU09-2629	1 R01 HD060325-01	38,619
ARRA -ALASKA NATIVE TRIBAL HEALTH CONSORTIUM	93.701	ANTHC CU10-0917	5 U01NS048069-04	37,344
ARRA -UNIVERSITY OF ROCHESTER MEDICAL CENTER	93.701	URMC 100003-D	R01 HD057793	34,177
ARRA -DUKE UNIVERSITY	93.701	DUMC 165034	1 RC2 NS070344-01	32,418
ARRA -MOUNT SINAI SCHOOL OF MEDICINE	93.701	MSSM 0256-6671-4609	NICHD (5 R21 HD065276-02	31,397
ARRA -BOSTON UNIVERSITY	93.701	BU GC207272NGC	1 RC2 GM092602-01	29,179
ARRA -UNIVERSITY OF ARKANSAS	93.701	UARK #034748	R01MH089466-01	27,805
ARRA -UNIVERSITY OF MICHIGAN	93.701	UMICHG 3001747410	RC4 AG039029	27,409
ARRA -UNIVERSITY OF CINCINNATI	93.701	UCINCI 006467 SC1	R01 NS039512-07	27,041
ARRA -UNIVERSITY OF MICHIGAN	93.701	UMICHG 3001448443	1 RC2 AG036495-01	25,702
ARRA -GRADUATE CENTER- CITY UNIVERSITY OF NEW YORK	93.701	RFCUNY NO.41739A	1R15HD065653-01	24,442
ARRA -MOUNT SINAI SCHOOL OF MEDICINE	93.701	MSSM 0256-6511-4609	3 R01 CA 10975-04S1	24,042
ARRA -NATIONAL CHILDHOOD CANCER FOUNDATION	93.701	NCCF #19386	U10 CA098543-07S1	23,000
ARRA -UNIVERSITY OF CINCINNATI	93.701	UCINCI 006467	R01 NS039512-07	20,642
ARRA -UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.701	CUCSD 10-CPMC ADNI-G	1 RC-2AG036535-01	20,053
ARRA -DUKE UNIVERSITY	93.701	DUKEU 09-NIH-ARRA-11	1 R01 MH078731-01A2	19,875
ARRA -MONTEFIORE MEDICAL CENTER	93.701	MMC CU09-2394	5 R01 NS043209-07S1	17,559
ARRA -MOUNT SINAI SCHOOL OF MEDICINE	93.701	MSSM 0256-6671-4603	1 R21 HD065276-01	16,870
ARRA -GEORGE WASHINGTON UNIVERSITY	93.701	GWU 10-D32	3 U01 DK061230-09S1	15,200
ARRA -HARVARD UNIVERSITY	93.701	HARVARD 23600-114881	1 RC4 MH092707-01	14,611
ARRA -SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.701	SSS BRS-IMPCT-Q-06-0	3 U01 AI068632-04S2	13,470
ARRA -SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.701	SSS BRS-IMPCT-Q-06-0	3 U01 AI068632-04S1	13,075
ARRA -NATIONAL CHILDHOOD CANCER FOUNDATION	93.701	NCCF 19205	3 U01 CA97452-07S2	12,879
ARRA -UNIVERSITY OF CINCINNATI	93.701	UCINCI 006467	2 R01 NS039512-06A1	11,161
ARRA -NATIONAL CHILDHOOD CANCER FOUNDATION	93.701	NCCF 19240	3 U01 CA97452-07S1	9,972
ARRA -EMORY UNIVERSITY	93.701	EMORYU 5323093	1 RC1 HL100951-01	8,784
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	CJHPKN #2000878472 SC1	1 RC2 CA148346-01REVISED	6,762
ARRA -UNIVERSITY OF MICHIGAN	93.701	UMICHG 3001648829	5 RC2 AG036495-02	6,488
ARRA -UNIVERSITY OF ROCHESTER MEDICAL CENTER	93.701	URMC 000003-D	1 R01 HD057793-01A1	5,739
ARRA -JOHNS HOPKINS UNIVERSITY	93.701	JH 2000829673	1 RC2 NS069395-01	4,830
ARRA -UNIVERSITY OF CALIFORNIA, LOS ANGELES	93.701	UCLA 1580 G ME592	3 R01 NS051591	4,830
ARRA -UNIVERSITY OF WASHINGTON	93.701	UWASH 696723Z	1 R56 DK089036-01	3,726

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ARRA -UNIVERSITY OF CHICAGO	93.701	UCHICA 39575-03S1	1 R01 LM008799-03S1	3,198
ARRA -INDIANA UNIVERSITY	93.701	IUSM IUPIU4683118CU	1 RC1 AR058767-01	1,064
ARRA -KENNEDY KRIEGER INSTITUTE	93.701	KKINS CU09-0155	3 P01 HD035897-21S1	-1,355
ARRA -KENNEDY KRIEGER INSTITUTE	93.701	KKINS CU09-0155	3 P01 HD035897-21S1	-1,615
ARRA -UNIVERSITY OF CALIFORNIA, LOS ANGELES	93.701	UCLA 1558 G MA303	1 R01 AG032271	-6,839
				6,295,276
Biomedical Research and Research Training				
ARRA -DREXEL UNIVERSITY	93.859	DREXEL 232437		16,624
				16,624
Total Pass-through Programs:				6,590,694
Total: National Institute of Health				59,504,368

National Science Foundation

Direct Awards

Trans-NSF Recovery Act Reasearch Support

ARRA-OPERATION AND MANAGEMENT OF THE LDEO INSTRUMENT CENTER OF THE NATIONAL OCEAN BOTTOM SEISMETER POOL	47.082	OCE-05-51596		689,782
ARRA-OPERATION AND MANAGEMENT OF THE LDEO INSTRUMENT CENTER OF THE NATIONAL OCEAN SEISMOMETER POOL	47.082	OCE-05-51596	GAH	611,334
ARRA-2009 SHIPBOARD SCIENTIFIC EQUIPMENT	47.082	OCE-0943827		567,722
ARRA-DEVELOPMENT OF A NOVEL INSTRUMENT TO STUDY THE COSMIC ORIGINS OF ORGANIC CHEMISTRY AND THE COSMO-CHEMICAL PATHWAY TOWAR	47.082	AST-0905832	EQI	562,748
ARRA-COLLABORATIVE PROPOSAL: CONTINUATION OF THE XENON DARK MATTER PROJECT: CONSTRUCTION AND UNDERGROUND OPERATION OF AN UPGR	47.082	PHY-0904220	EQI	499,895
ARRA-OPERATION AND MANAGEMENT OF THE LDEO INSTRUMENT CENTER OF THE NATIONAL OCEAN SEISMOMETER POOL	47.082	OCE-0551596		372,270
ARRA-MRI-R2: DEVELOPING AN ICE IMAGING SYSTEM FOR MONITORING CHANGING ICE SHEETS MOUNTED ON THE NYANG LC-130	47.082	ANT-0958658		361,094
ARRA-GRADUATE RESEARCH FELLOWSHIP PROGRAM	47.082	DGE-0946826		325,000
ARRA-HEALTH DETERMINANTS AND RESEARCH DESIGN	47.082	SES-0847329		233,222
ARRA-CO-EVOLUTION OF AUDITORY CODING AND VOCAL BEHAVIOR	47.082	IOS-0920081		223,645
ARRA-NANOPOTONIC INTERCONNECT CAD: AUTOMATED DESIGN FOR NANOPHOTONIC ENABLED INTERCONNECT IN MULTICORE AR	47.082	ECES-0903406		208,869
ARRA-A NEW APPROACH TO SILICON/COMPOUND SEMICONDUCTOR INTEGRATION	47.082	ECES-0901297		192,659
ARRA-TC: MEDIUM: USER-CONTROLLABLE POLICY LEARNING	47.082	CNS-0905403		183,971
ARRA-CAREER: THE CHEMISTRY AND BIOLOGY OF HALOGENATED NATURAL PRODUCTS	47.082	CHE-0844593		156,019
ARRA-P2C2: NORTH AMERICAN MEGADROUGHT: ATMOSPHERE-OCEAN FORCING AND LANDSCAPE RESPONSE FROM THE MEDIEVAL PERIOD TO THE NEAR-T	47.082	ATM-0902716		148,375
ARRA-COLOABORATIVE PROPOSAL: SECURIRTY SERVICES IN OPEN TELECOMMUNICATIONS NETWORKS	47.082	CNS-0905406		142,604
ARRA-DIRECTED EVOLUTION OF SPECIFIC CELL PENETRATING PEPTIDES	47.082	CBET-0853946		139,620
ARRA-RELIABILITY AND SAFETY OF SUSPENSION BRIDGE CABLES USING CONTINUOUS HEALTH MONITORING DATA	47.082	CMMI-0928129		139,236
ARRA-QUANTIFYING THE FUNDAMENTAL BEHAVIOR OF GREEN ROOFS IN AN URBAN ENVIRONMENT	47.082	CMMI-0928604		128,510
ARRA-THREE-DIMENSIONAL MODELS OF FAULTING DURING OBLIQUE CONTINENTAL EXTENSION	47.082	EAR-0911565		124,637
ARRA-COLLABORATIVE RESEARCH: ENHANCING THE SUSTAINABILITY OF GROUNDWATER PUMPING FROM LOW-ARSENIC AQUIFERS IN SOUTHERN ASIA -	47.082	EAR-0911557		124,240

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ARRA-COLLABORATIVE RESEARCH: SHIFTING SEASONALITY OF NORTHERN FOREST RESPONSE TO ARCTIC ENVIRONMENTAL CHA	47.082	ARC-0902051		123,538
ARRA-INVESTIGATIONS OF RAM PRESSURE STRIPPING IN REALISTIC CLUSTER ENVIRONMENTS WITH A MULTIPHASE ISM	47.082	AST-0908390		117,668
ARRA-INVESTIGATING THE PRESENCE OF PRESEISMIC VELOCITY CHANGES	47.082	EAR-0910535		114,272
ARRA-MRI-R2: ACQUISITION OF STABLE ISOTOPE INSTRUMENTATION FOR HIGH PRECISION PALEOCLIMATIC AND ENVIRONMENTAL RESEARCH AT THE	47.082	AGS-0959148		107,159
ARRA-RI: MEDIUM: COLLABORATIVE RESEARCH: ROBOTIC HANDS: UNDERSTANDING & IMPLEMENTING ADAPTIVE GRASPING	47.082	IIS-0904514		102,855
ARRA-EXPERIMENTAL STUDIES OF BASIC PHYSICS OF PLASMA TRANSPORT	47.082	PHY-0902930		101,211
ARRA-COLLABORATIVE PROPOSAL: CONTINUATION OF THE XENON DARK MATTER PROJECT: CONSTRUCTION AND UNDERGROUND OPERATION OF AN UPGR	47.082	PHY-0904220	OFF	98,896
ARRA-ELECTRICAL DETECTION OF PROTEIN BINDING AT DNA MODIFIED CARBON NANOTUBE FIELD EFFECT TRANSISTORS	47.082	CHE-0936923		95,720
ARRA-EVALUATION OF FINESTRUCTURE MIXING PARAMETERIZATIONS BASED ON LADCP SHEAR	47.082	OCE-1030309		95,691
ARRA-DYNAMIC MEASURES OF INFLATION	47.082	SES-0921147		92,339
ARRA-FLUX DISTRIBUTIONS AND PATH DENSITIES: A NEW LOOK AT STRATOSPHERE-TROPOSPHERE EXCHANGE (STE)	47.082	ATM-0854711		88,969
ARRA-CAREER: SELF-ASSEMBLY IN TWO AND THREE DIMENSIONS: FROM CRYSTAL TO SURFACE DESIGN AND BACK	47.082	DMR-0846426		86,184
ARRA-U.S. GEOTRACES NORTH ATLANTIC SECTION: CFC AND SF6 MEASUREMENTS	47.082	OCE-0928612		82,751
ARRA-CAREER: SUSTAINABLE ENERGY CONVERSION OF SOLID WASTES WITH INTEGRATED IN-SITU CARBON SEQUESTRATION	47.082	CBET-0846846		78,550
ARRA-CAREER: COMPUTATIONAL INFRASTRUCTURE FOR FULL-SEQUENCE ASSOCIATION STUDIES WITH POOLED INDIVIDUALS	47.082	IIS-0845677		78,025
ARRA-RI: MEDIUM: COLLABORATIVE RESEARCH: FROM TEXT TO PICTURES	47.082	IIS-0904361		76,601
ARRA-PRICE ADJUSTMENT, EXCHANGE RATE POLICY AND MONETARY MODELS	47.082	SES-0922011	CBS	75,510
ARRA-RI: MEDIUM: COLLABORATIVE RESEARCH: FROM TEXT TO PICTURES	47.082	IIS-0904361	RAM	75,476
ARRA-PRICE ADJUSTMENT, EXCHANGE RATE POLICY AND MONETARY MODELS	47.082	SES-0922011		69,198
ARRA-DEVELOPMENT OF A NOVEL INSTRUMENT TO STUDY THE COSMIC ORIGINS OF ORGANIC CHEMISTRY AND THE COSMO-CHEMICAL PATHWAYAY TOWAR	47.082	AST-0905832		67,363
ARRA-CMG RESEARCH: RECONSTRUCTING CLIMATE FROM TREE RING DATA	47.082	ATM-0934516		65,535
ARRA-NETS: SMALL: COLLABORATIVE RESEARCH: EFFECTIVE CONTROL OF WIRELESS NETWORKS VIA TOPOLOGY ADAPTATION AND RANDOMIZATION	47.082	CNS-0916263		62,258
ARRA-OCEANOGRAPHIC INSTRUMENTATION 2009	47.082	OCE-0918138		59,190
ARRA-BOOTSTRAP AND THRESHOLD MODELS IN NON-STANDARD PROBLEMS	47.082	DMS-0906597		59,131
ARRA-COLLABORATIVE RESEARCH: RECONSTRUCTING DEEP SEA ACIDIFICATION DURING THE PALEOCENE-EOCENE THERMAL MAXIMUM	47.082	OCE-0902992		58,721
ARRA-COLLABORATIVE PROPOSAL: CONTINUATION OF THE XENON DARK MATTER PROJECT: CONSTRUCTION AND UNDERGROUND OPERATION OF AN UPGR	47.082	PHY-0904220		56,836
ARRA-COLLABORATIVE RESEARCH: UNCERTAINTY QUANTIFICATION FOR PETASCALE SIMULATION OF CARBON SEQUESTRATION THROUGH FAST ULTRA-S	47.082	OCI-0904746		54,923
ARRA-CMG RESEARCH: RECONSTRUCTING CLIMATE FROM TREE RING DATA	47.082	ATM-0934516	REC	51,622
ARRA-COLLABORATIVE RESEARCH: INVESTIGATING THE LIMITS OF RAY-BASED GLOBAL SURFACE-WAVE TOMOGRAPHY	47.082	EAR-0910775		48,666
ARRA-COLLABORATIVE RESEARCH: A SOUTHERN HEMISPHERIC PERSPECTIVE ON HOLOCENE CLIMATE VARIABILITY BASED ON MOUNTAIN GLACIAL CHR	47.082	EAR-0902363		47,968
ARRA-A M-SEQUENCE GEOMAGNETIC POLARITY TIME SCALE THAT MINIMIZES GLOBAL SPREADING RATE VARIATIONS AND INCORPORATES CYCLOSTRAT	47.082	OCE-0926306		45,665
ARRA-COMMUNITY-PARTNERED REPATRIATION OF INUPIAT MUSIC	47.082	ARC-0939905		44,216
ARRA-CATEGORIFICATION OF QUANTUM GROUPS	47.082	DMS-0855713		43,644
ARRA-MRI-R2: DEVELOPING AN ICE IMAGING SYSTEM FOR MONITORING CHANGING ICE SHEETS MOUNTED ON THE NYANG LC-130	47.082	ANT-0958658	EQI	42,113
ARRA-STRUCTURE OF LOW-DIMENSIONAL FLOER HOMOLOGIES	47.082	DMS-0905796		40,133
ARRA-MULTIMESSENGER ASTRONOMY THROUGH GRAVITATIONAL-WAVES	47.082	PHY-0856691	GRA	37,274
ARRA-MULTIMESSENGER ASTRONOMY THROUGH GRAVITATIONAL-WAVES	47.082	PHY-0856691		36,212

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ARRA-CANONICAL METRICS IN COMPLEX GEOMETRY	47.082	DMS-0904223		35,778
ARRA-OPERATION AND MANAGEMENT OF THE LDEO INSTRUMENT CENTER OF THE NATIONAL OCEAN BOTTOM SEISMETER POOL	47.082	OCE-0551596	SUP	35,677
ARRA-FRG: COLLABORATIVE RESEARCH: AUTOMORPHIC FORMS, GALOIS REPRESENTATIONS, PERIODS AND P-ADIC L-FUNCTIO	47.082	DMS-0854964		34,332
ARRA-RAPID: DEEP SEISMIC INVESTIGATION OF SUMATRAN SUBDUCTION ZONES SEISMIC GAP	47.082	OCE-0938221		30,305
ARRA-ICE SHEET DYNAMICS AND PROCESSES ALONG THE WEST ANTARCTIC CONTINENTAL SHELF	47.082	ANT-0838735		29,933
ARRA-QUANTILE REGRESSION WITH MISMEASURED OR MISSING COVARIATES	47.082	DMS-0906568		29,193
ARRA-HOW DEEP DO RUPTURES PENETRATE IN LARGE EARTHQUAKES?	47.082	EAR-0911221		23,959
ARRA-COLLABORATIVE RESEARCH: STUDIES OF THE STRUCTURE OF THE EARTH'S INTERIOR	47.082	EAR-0838093		21,139
ARRA-CATALYTIC HYDROGELS FROM BIFUNCTIONAL ENZYMATIC BUILDING BLOCKS	47.082	DMR-0907045		20,271
ARRA-COLLABORATIVE RESEARCH: MELTING OF CARBONATE-BEARING SEDIMENTS IN SUBDUCTION ZONES	47.082	OCE-0841051		18,422
ARRA-COLLABORATIVE RESEARCH: EROSION HISTORY AND SEDIMENT PROVENANCE OF EAST ANTARCTICA FROM MULTI-METHOD DETRITAL GEO- AND T	47.082	ANT-0838729		18,323
ARRA-COLLABORATIVE RESEARCH: POSTSEISMIC DEFORMATION OF THE EARTH AFTER THE GREAT 2006-2007 KURIL EARTHQUAKE DOUBLET: IMPLICA	47.082	EAR-0911318		16,930
ARRA-RI: MEDIUM: COLLABORATIVE RESEARCH: ROBOTIC HANDS: UNDERSTANDING & IMPLEMENTING ADAPTIVE GRASPING (*SUBPROJECT*)	47.082	IIS-0904514	PAR	13,500
ARRA-FRG: COLLABORATIVE RESEARCH: AUTOMORPHIC FORMS, GALOIS REPRESENTATIONS, PERIODS AND P-ADIC L-FUNCTIONS	47.082	DMS-0854964	PAR	12,544
ARRA-FITNESS COST OF NEST PARASTISM BY TAPER A NAEV	47.082	DBI-0905805		5,000
ARRA-RI: MEDIUM: COLLABORATIVE RESEARCH: FROM TEXT TO PICTURES	47.082	IIS-0904361	PAR	4,702
ARRA-HYDROGRAPHIC AND SEDIMENT-TRAP MONITORING OF ANOXIC SOLEDAD BASIN OFF BAJA CALIFORNIA FOR ENHANCED CLIMATE RECONSTRUCTIO	47.082	OCE-0927822		4,465
ARRA-CAREER: THE CHEMISTRY AND BIOLOGY OF HALOGENATED NATURAL PRODUCTS	47.082	CHE-0844593	PAR	3,000
ARRA-ULTRA-WIDEBAND MMWAVE RADAR AND IMAGING SENSORS BASED ON COMPRESSIVE SENSING	47.082	ECCS-0952574		144
				9,175,152
Total Direct Award Programs:				9,175,152

Pass-through Awards

Mathematical and Physical Sciences

ARRA -JOHNS HOPKINS UNIVERSITY	47.049	JH 2000897852	AST-0959349	4,149
				4,149

Trans-NSF Recovery Act Reasearch Support

ARRA -BBN SYSTEMS AND TECHNOLOGIES	47.082	BBN NO. 1770	CNS-0944089	56,196
ARRA -NORTH CAROLINA STATE UNIVERSITY	47.082	NCSU 2010-0724-02	CNS-0940805	44,890
ARRA -CALIFORNIA STATE UNIVERSITY, FRESNO	47.082	CSUFRESNO SC360025-1	ARRA-NSF-0959141	26,801
ARRA -PRINCETON UNIVERSITY	47.082	PU NO.00001694	SES-0924778	19,189
ARRA -UNIVERSITY OF HOUSTON	47.082	HOUSTN R-10-0101	NSF	17,295
				164,371
Total Pass-through Programs:				168,520
Total: National Science Foundation				9,343,672

The Trustees of Columbia University in the City of New York

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For year ended June 30, 2011

R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
National Aeronautics & Space Administration				
Direct Awards				
National Aeronautics & Space Administration				
ICEBRIDGE GREENLAND 2010	43.000	NNG10HP20C		969,446
				969,446
Total Direct Award Programs:				969,446
Total: National Aeronautics & Space Administration				969,446

Department of Energy

Direct Awards

Office of Science Financial Assistance Program

ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (POST DOC - A&S)	81.049	DE-SC0001085	06	225,050
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (EQUIPMENT)	81.049	DE-SC0001085	EQU	211,036
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (POST DOC - SEAS)	81.049	DE-SC0001085	05	186,189
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (RES - A&S)	81.049	DE-SC0001085	04	182,266
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (SUBCONTRACT - PURDUE)	81.049	DE-SC0001085	PUR	175,929
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (SUBCONTRACT - TEXAS)	81.049	DE-SC0001085	TEX	124,068
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	KIM	118,283
ARRA-RECONFIGURATION POWER SYSTEM TO MINIMIZE CASCADING FAILURES:MODELS AND ALGORITHMS	81.049	DE-SC0002676		117,010
ARRA-RECOVERY ACT - REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	OSG	103,272
ARRA-TAS: :89 0227: : TAS RECOVERY ACT - THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699		99,504
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	FLY	90,945
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	NUC	89,161
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (SUBCONTRACT - ARKANSAS)	81.049	DE-SC0001085	OWE	86,266
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	SHE	83,114
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	STE	81,927
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	KYM	79,760
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	REI	75,544
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	VEN	73,933
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	HEI	72,991
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	HON	72,159
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	DIR	70,131
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - OUTREACH AND COMMUNITY - SEAS	81.049	DE-SC0001085	07	66,263
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (STAFF - A&S)	81.049	DE-SC0001085	02	63,708
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	BRU	63,310

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

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R&D Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (SUBCONTRACT - ARKANSAS)	81.049	DE-SC0001085	ARK	59,574
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (SUBCONTRACT - ARKANSAS)	81.049	DE-SC0001085	NAR	47,781
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - OUTREACH AND COMMUNITY - A&S	81.049	DE-SC0001085	08	31,394
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	WON	31,271
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	WIN	25,000
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC (DISC - SEAS)	81.049	DE-SC0001085	09	5,414
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	HER	3,575
ARRA-RECOVERY ACT: REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL - EFRC	81.049	DE-SC0001085	BIL	318
				2,816,146
Conservation Research and Development				
ARRA-RECOVERY ACT: INTEGRATED DC-DC CONVERSION FOR ENERGY-EFFICIENT MULTICORE MICROPROCESSORS	81.086	DE-EE0002892		1,243,349
ARRA-RECOVERY ACT: INTEGRATED DC-DC CONVERSION FOR ENERGY-EFFICIENT MULTICORE MICROPROCESSORS	81.086	DE-EE0002892	BB	96,034
				1,339,383
Geologic Sequestration Training and Research Grant Program				
ARRA-MICROBIAL AND CHEMICAL ENHANCEMENT OF INSITU CARBON MINERALIZATION IN GEOLOGICAL FORMATIONS	81.133	DE-FE0002389		112,455
ARRA-GEO-CHEMO-MECHANICAL STUDIES FOR PERMANENT CO2 STORAGE IN GEOLOGIC RESERVOIRS	81.133	DE-FE0002386		58,080
				170,535
Advanced Research and Projects Agency – Energy Financial Assistance Program				
ARRA-BIOFUELS FROM CO2 USING AMMONIA-OXIDIZING-BACTERIA IN A REVERSE MICROBIAL FUEL CELL	81.135	DE-AR0000060		299,253
ARRA-CHEMICAL AND BIOLOGICAL CATALYTIC ENHANCEMENT OF WEATHERING OF SILICATE MINERALS AS NOVEL CARBON CAPTURE AND STORAGE TEC	81.135	DE-AR00000100		272,282
ARRA-CHEMICAL AND BIOLOGICAL CATALYTIC ENHANCEMENT OF WEATHERING OF SILICATE MINERALS AS NOVEL CARBON CAPTURE AND STORAGE TEC	81.135	DE-AR00000100		41,038
				612,573
Total Direct Award Programs:				4,938,637
Pass-through Awards				
Office of Science Financial Assistance Program				
ARRA -CON EDISON OF NEW YORK	81.049	CON ED NO. SA-SG003	DE-DE0000197	2,291,526
ARRA -UNITED TECHNOLOGIES CORPORATION	81.049	UTHEHC NO.1162214	DE-AR0000023	82,925
ARRA -BROOKHAVEN NATIONAL LABORATORY	81.049	BNL NO.161601	SC1	72,342
ARRA -UNIVERSITY OF COLORADO	81.049	UCOL 1547442	DE-PS02-09ER0902	59,375
ARRA -BROOKHAVEN NATIONAL LABORATORY	81.049	BNL NO.161601	DE-AC02-98CH10886	4,541
				2,510,709
Advanced Research and Projects Agency – Energy Financial Assistance Program				
ARRA -RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	81.135	RFCUNY 47832 A	KIN	93,751
ARRA -RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	81.135	RFCUNY 47832 A		23,546
				117,297
Total Pass-through Programs:				2,628,006

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
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R&D Cluster, continued

Federal Grantor / Pass-through Grantor	CFDA	Project No.	Pass-through Contract Number	Expenditures
Total: Department of Energy				7,566,643
Department of Interior				
Direct Awards				
Earthquake Hazards Reduction Program				
ARRA-IMPLEMENTATION OF A REAL-TIME DOUBLE-DIFFERENCE EARTHQUAKE LOCATION SYSTEM AT THE CISN AND MAINTENANCE OF A CONTINOUS DD	15.807	USGS G10AC00040		246,758
ARRA-UPGRADING THE LAMONT COOPERATIVE SEISMOGRAPHIC NETWORK AND MODERNIZATION OF THE ADVANCED NATIONAL SEISMIC SYSTEM-NORTHEA	15.807	USGS G09AC00491		100,141
				346,899
Total Direct Award Programs:				346,899
Total: Department of Interior				346,899
Sub-Total: ARRA FUNDED PROGRAMS				82,206,219
Total: RESEARCH & DEVELOPMENT CLUSTER including ARRA FUNDED				642,457,990

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
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Student Financial Assistance Cluster

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
STUDENT FINANCIAL ASSISTANCE CLUSTER				
Department of Health & Human Services				
Direct Awards				
Nurse Faculty Loan Program (NFLP)				
NURSE FACULTY LOAN PROGRAM	93.264	2 E01 HP12941-02-00		152,518
NURSE FACULTY LOAN PROGRAM	93.264	1 E01HP12941-01-00		-101,703
				<u>50,815</u>
Health Professions Student Loans, Including Primary Care Loans/Loans for Disadvantaged Students				
HRSA HEALTH PROFESSIONS STUDENT LOANS FOR DENTISTRY	93.342	6 E11HP19072-01-01		16,915
HRSA LOANS TO DISADVANTGAGE STUDENTS FOR DENTISTRY	93.342	6 E31HP19096-01-01		7,164
				<u>24,079</u>
Nursing Student Loans				
(NSL) - BACCALAUREATE NURSING	93.364	2 E4CHP14927-02-00		4,001
				<u>4,001</u>
Scholarships for Health Professions Students from Disadvantaged Backgrounds				
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08HP18777-01-00		147,354
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08HP18777-01-00		115,121
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08HP18777-01-00		89,320
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08HP18777-01-00		2,302
				<u>354,097</u>
Total Direct Award Programs:				<u>432,992</u>
Total: Department of Health & Human Service				<u>432,992</u>
Department of Education				
Direct Awards				
Federal Supplemental Educational Opportunity Grants				
SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM 2010-2011(SEOG)-ENGINEERING	84.007	DE-SEOG 10/11	ENG	894,000
SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM 2010-2011-GENERAL STUDIES	84.007	DE-SEOG 10/11	SGS	751,728
SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM 2009/2010-SCHOOL OF ENGINEERING	84.007	DE-SEOG 09/10	A	228,153
				<u>1,873,881</u>
Federal Work-Study Program				
UNIVERSITY DEPARTMENT	84.033	DE-438-002707	001	3,595,354
FEDERAL WORK STUDY 2010-2011 (FWS)	84.033	DE-438-00270	CC	1,148,256
COLLEGE WORK STUDY 2008-2009	84.033	DE-438-002707		1,051,149

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Student Financial Assistance Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
ENGLISH & COMPARATIVE LITERATURE	84.033	DE-438-002707 011		191,601
ART HISTORY & ARCHAEOLOGY	84.033	DE-438-002707 009		145,668
GEOLOGICAL SCIENCES	84.033	DE-438-002707 026		99,668
CHEMISTRY	84.033	DE-438-002707 025		84,313
ECONIMICS	84.033	DE-438-002707 004		61,311
POLITICAL SCIENCE	84.033	DE-438-002707 007		53,982
BIOLOGICAL SCIENCES	84.033	DE-438-002707 024		45,997
HISTORY	84.033	DE-438-002707 006		45,981
MUSIC	84.033	DE-438-002707 018		38,340
FRENCH & ROMANCE PHILOLOGY	84.033	DE-438-002707 012		38,336
ITALIAN	84.033	DE-438-002707 015		22,992
ENGINEERING GRADUATE TRANSFERS	84.033	DE-438-002707 031		21,799
ASTRONOMY	84.033	DE-438-002707 023		18,738
MIDDLE EAST LANGUAGES AND CULTURES	84.033	DE-438-002707 017		18,618
JUMPSTART/AMERICA READS	84.033	DE-438-002707 063		18,293
EAST ASIAN LANGUAGES & CULTURES	84.033	DE-438-002707 010		15,328
PHYSICS	84.033	DE-438-002707 029		15,328
STATISTICS	84.033	DE-438-002707 027		15,328
ANTHROPOLOGY	84.033	DE-438-002707 003		15,328
CLASSICS	84.033	DE-438-002707 014		15,328
PHILOSOPHY	84.033	DE-438-002707 019		15,327
SCHOOL OF DENTAL OF ORAL SURGERY	84.033	DE-438-002707 036		15,000
COMMUNITY IMPACT/VIRTUAL Y/AMERICA READS PROGRAM	84.033	DE-438-002707 062		14,130
P.S.1 CONTEMPORARY ART CENTER	84.033	DE-438-002707 125		12,101
SPANISH & PORTUGUESE	84.033	DE-438-002707 022		9,197
METROPOLITAN MUSEUM OF ART	84.033	DE-438-002707 065		8,270
ACADEMY OF AMERICAN POETS	84.033	DE-438-002707 053		8,099
MATHEMATICS	84.033	DE-438-002707 028		7,664
SLAVIC LANGUAGES	84.033	DE-438-002707 021		7,664
GERMANIC LANGUAGES	84.033	DE-438-002707 013		7,664
POLITICAL SCIENCE	84.033	DE-438-002707 007		7,500
ENGLISH & COMPARATIVE LITERATURE	84.033	DE-438-002707 011		7,473
THE 92ND STREET Y	84.033	DE-438-002707 060		4,684
THE 92ND STREET Y MUSIC PROGRAM	84.033	DE-438-002707 061		4,385
SPECTATOR	84.033	DE-438-002707 121		3,884
THE MUSEUM OF MODERN ART	84.033	DE-438-002707 084		3,394
DCAS/PUBLIC SERVICE CORPORATION	84.033	DE-438-002707 002		3,259

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
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Student Financial Assistance Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
LANDMARK WEST	84.033	DE-438-002707	142	2,976
BARNARD MINOR LATHAM THEATER	84.033	DE-438-002707	043	2,858
RIVERSIDE SYMPHONY	84.033	DE-438-002707	051	2,358
RIVERSIDE LANGUAGE PROGRAM	84.033	DE-438-002707	131	2,202
BARNARD DANCE DEPT.	84.033	DE-438-002707	100	2,033
POETS HOUSE	84.033	DE-438-002707	054	2,006
THE FOUNDATION FOR CULTURAL REVIEW / NEW CRITERION	84.033	DE-438-002707	056	1,940
BARNARD ENVIRONMENTAL SCIENCE	84.033	DE-438-002707	101	1,873
NORTHSIDE HOUSING AND SERVICES	84.033	DE-438-002707	141	1,865
UNIVERSITY DEPARTMENT	84.033	DE-438-002707	001	1,292
AFRICAN AMERICAN POLICY FORUM	84.033	DE-438-002707	139	1,095
FEDERAL WORK STUDY PROGRAM 2007-2008	84.033	DE-438-002707	PRI	917
NY PRESERVATION ARCHIVE	84.033	DE-438-002707	080	891
CENTER FOR WORK-LIFE POLICY	84.033	DE-438-002707	143	645
TRANSPORTATION ALTERNATIVES	84.033	DE-438-002707	140	636
UNIVERSITY DEPARTMENT	84.033	DE-438-002707	001	495
GOVERNMENT & COMMUNITY AFFAIRS AMERICA READS PROGRAM	84.033	DE-438-002707	064	480
FEDERAL WORK STUDY PROGRAM 2009/2010 - COLUMBIA COLLEGE	84.033	DE-438-002707	A1	256
METROPOLITAN MUSEUM OF ART	84.033	DE-438-002707	065	-1
MORNINGSIDE AREA ALLIANCE	84.033	DE-438-002707	107	-14
POETS HOUSE	84.033	DE-438-002707	054	-75
PHYSICAL EDUCATION DEPT AT BARNARD COLLEGE	84.033	DE-438-002707	128	-95
BARNARD MIRROR LATHAM THEATER	84.033	DE-438-002707	043	-98
TEACHER'S COLLEGE BEHAVIORAL SCIENCES, MOVEMENT SCIENCES AND EDUCATION	84.033	DE-438-002707	127	-201
UNIVERSITY DEPARTMENT	84.033	DE-438-002707	001	-202
WNYC RADIO	84.033	DE-438-002707	133	-227
MUSEUM OF NATURAL HISTORY	84.033	DE-438-002707	129	-230
RIVERSIDE LANGUAGE PROGRAM	84.033	DE-438-002707	131	-248
HUMAN RIGHTS WATCH	84.033	DE-438-002707	091	-281
THE EQUITY PROJECT CHARTER SCHOOL	84.033	DE-438-002707	123	-334
SPECTATOR	84.033	DE-438-002707	121	-350
MOUNT SINAI DEPT OF GENERICS AND GENOMIC SCIENCES	84.033	DE-438-002707	110	-357
THE 92ND STREET Y MUSIC DEPARTMENT	84.033	DE-438-002707	061	-464
AMERICAN SOCIAL HISTORY PRODUCTIONS/WE CARE MEDIA SVCS	84.033	DE-438-002707	078	-498
RIVERSIDE SYMPHONY	84.033	DE-438-002707	051	-513
THE 92ND STREET Y	84.033	DE-438-002707	060	-665
POETRY SOCIETY OF AMERICA	84.033	DE-438-002707	057	-828

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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Student Financial Assistance Cluster, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
P.S. 1 CONTEMPORARY ART CENTER?	84.033	DE-438-002707 125		-1,173
THE MUSEUM OF MODERN ART	84.033	DE-438-002707 084		-1,201
ACADEMY OF AMERICAN POETS	84.033	DE-438-002707 053		-1,473
RESERVED	84.033	DE-438-002707 037		-7,080
COLLEGE WORK STUDY 2009-2010	84.033	DE-438-002707		-461,102
				6,465,839
Federal Pell Grant Program				
PELL GRANT 2010-2011	84.063	DE-PELL 10/11		7,196,949
PELL GRANT PROGRAM 2009/2010-GENERAL STUDIES	84.063	DE-PELL 09/10 C		6,244
PELL GRANT PROGRAM 2004-2005 COLUMBIA COLLEGE	84.063	DE-PELL 04/05 A		25
PELL GRANT PROGRAM 2009/2010-COLUMBIA COLLEGE	84.063	DE-PELL 09/10 A		-488
PELL GRANT PROGRAM 2009/2010-ENGINEERING	84.063	DE-PELL 09/10 B B		-1,764
				7,200,966
Federal Direct Student Loans				
FEDERAL DIRECT STUDENT LOANS-Federal Graduate Plus Loan	84.268	DE-P268K111840 SPE		125,943,846
FEDERAL DIRECT STUDENT LOANS-Federal Unsubsidized Stafford Loan Program	84.268	DE-P268K111840 SPE		101,895,385
FEDERAL DIRECT STUDENT LOANS-Federal Subsidized Stafford Loan Program	84.268	DE-P268K111840 SPE		67,077,132
FEDERAL DIRECT STUDENT LOANS-Federal Plus Loan Program	84.268	DE-P268K111840 SPE		8,578,569
FEDERAL DIRECT LOAN (2011-2012)-Federal Graduate Plus Loan	84.268	DE-P268K121840 SPE		3,221,036
FEDERAL DIRECT LOAN (2011-2012)-Federal Unsubsidized Stafford Loan Program	84.268	DE-P268K121840 SPE		2,460,122
FEDERAL DIRECT LOAN (2011-2012)-Federal Subsidized Stafford Loan Program	84.268	DE-P268K121840 SPE		1,972,224
FEDERAL DIRECT LOAN-Federal Graduate Plus Loan	84.268	DE-P10G02707001		47,952
FEDERAL DIRECT LOAN (2011-2012)-Federal Plus Loan Program	84.268	DE-P268K121840 SPE		35,166
				311,231,432
Academic Competitiveness Grants				
FEDERAL ACADEMIC COMPETITIVE GRANT 2010-2011 COLUMBIA COLLEGE (ACG)	84.375	DE-ACG 10/11 C10		345,659
FEDERAL ACADEMIC COMPETITIVE GRANT (ACG 2009-2010)-COLUMBIA COLLEGE	84.375	DE ACG 09/10 101		-2,352
				343,307
Department of Education				
SMART GRANT PROGRAM 2010-2011-COLUMBIA COLLEGE	84.376	DE-SMART 10/11 101 101		720,000
SMART GRANT PROGRAM 2009-2010-ENGINEERING	84.376	DE-SMART 09-10 102		-8,000
				712,000
Total Direct Award Programs:				327,827,425
Total: Department of Education				327,827,425

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Student Financial Assistance Cluster, continued

Federal Grantor / Pass-through Grantor	CFDA	Project No.	Pass-through Contract Number	Expenditures
ARRA FUNDED PROGRAMS				
Department of Health & Human Services				
Direct Awards				
Scholarships for Disadvantaged Students				
ARRA- SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.407	1T0AHP18478-01-00		97,332
ARRA- SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.407	1 T0AHP18478-01-00		76,041
ARRA- SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.407	1 T0AHP18478-01-00		44,493
ARRA- SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.407	1 T0AHP18478-01-00		1,585
				219,451
Total Direct Award Programs:				219,451
Total: Department of Health & Human Services				219,451
Sub-Total: ARRA FUNDED PROGRAMS				219,451
Total: STUDENT FINANCIAL ASSISTANCE CLUSTER including ARRA FUNDED				328,479,868

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Trio Cluster

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
TRIO CLUSTER				
Department of Education				
Direct Awards				
TRIO_Talent Search				
TALENT SEARCH PROGRAM	84.044	DE P044A060143-10		348,160
				348,160
TRIO_Upward Bound				
UPWARD BOUND PROGRAM	84.047	DE P047A080458-10		766,271
				766,271
TRIO_McNair Post-Baccalaureate Achievement				
RONALD E. MCNAIR POSTBACCALAUREATE ACHIEVEMENT PROGRAM	84.217	DE P217A070257-10		401,518
				401,518
Total Direct Award Programs:				1,515,949
Total: Department of Education				1,515,949
Total: TRIO CLUSTER				1,515,949

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Head Start Cluster

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
HEAD START CLUSTER				
Department of Health & Human Services				
Direct Awards				
Head Start				
EARLY HEAD START	93.600	02CH9933/08		1,952,727
EARLY HEAD START	93.600	02CH9933/07		450,063
				<u>2,402,790</u>
Total Direct Award Programs:				<u>2,402,790</u>
Pass-through Awards				
Head Start				
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	NYCHRA 660TCOL	DHHS CU09-4030	367,715
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	NYCHRA CU50738314	2 R01 DHHS	-300
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	NYCHRA 660TCOL	DHHS CU09-0533	-817
				<u>366,598</u>
Total Pass-through Programs:				<u>366,598</u>
Total: Department of Health & Human Services				<u>2,769,388</u>
Total: HEAD START CLUSTER				<u>2,769,388</u>

The Trustees of Columbia University in the City of New York
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Homeland Security Cluster

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
HOMELAND SECURITY CLUSTER				
Other Agencies / Gov't				
Pass-through Awards				
Homeland Security Grant Program				
BAE SYSTEMS NATIONAL SECURITY SOLUTIONS, INC	97.067	BAESNSS 080043	H66001-09-C-0080	386,640
				386,640
Total Pass-through Programs:				386,640
Total: Other Agencies / Gov't				386,640
Total: HOMELAND SECURITY CLUSTER				386,640

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

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Other Programs

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
OTHER PROGRAMS				
Department of Health & Human Services				
Direct Awards				
Center for Disease Control				
SUPPORT FOR HIGH-QUALITY HIV CARE TREATMENT ACTIVITIES IN EASTERN KENYA - OFF SITE	93.000	CDC 200-2007-23654 SC2		638,219
SUPPORT FOR HIGH-QUALITY HIV CARE TREATMENT ACTIVITIES IN EASTERN KENYA - ON SITE	93.000	CDC 200-2007-23654 SC1		378,026
SUPPORT FOR HIGH-QUALITY HIV CARE TREATMENT ACTIVITIES IN EASTERN KENYA	93.000	CDC 200-2007-23654		94,923
				1,111,168
Global AIDS				
RAPID SCALE UP ON HIV/AIDS CARE AND TREATMENT SERVICES IN THE KINGDOM OF SWAZILAND UNDER PEPFAR - OFFSITE	93.067	3 U2G PS002005-02 S2		4,664,240
RAPID SCALE UP ON HIV/AIDS CARE AND TREATMENT SERVICES IN THE KINGDOM OF SWAZILAND UNDER PEPFAR - ONSITE	93.067	5 U2G PS002005-02 S1		3,244,100
SUPPORTING HIV PREVENTION, CARE AND TREATMENT IN KENYA (ONSITE)	93.067	5 U2G PS001314-03 S2		2,033,536
SUPPORTING HIV PREVENTION, CARE AND TREATMENT IN KENYA (OFFSITE)	93.067	5 U2G PS001314-03 S1		1,254,347
STRENGTHENING TB/HIV COLLABORATION IN THE KINGDOM OF LESOTHO UNDER PEPFAR - OFFSITE	93.067	3 U2G PS002011-02 S2		1,198,204
SUPPORTING THE IMPLEMENTATION AND EXPANSION OF HIGH QUALITY HIV PREVENTION, CARE AND TREATMENT ACTIVITIES AT FACILITY AN	93.067	1 U2G PS001987-01		1,132,178
RAPID SCALE UP ON HIV/AIDS CARE AND TREATMENT SERVICES IN THE KINGDOM OF SWAZILAND UNDER PEPFAR - ONSITE	93.067	1 U2G PS002005-01 S1		1,038,715
STRENGTHENING TB/HIV COLLABORATION IN THE KINGDOM OF LESOTHO UNDER PEPFAR - ONSITE	93.067	3 U2G PS002011-02 S1		902,203
SUPPORTING THE IMPLEMENTATION AND EXPANSION OF HIGH QUALITY HIV PREVENTION, CARE AND TREATMENT ACTIVITIES AT FACILITY AN	93.067	1 U2G PS001987-01 S2		848,852
SUPPORT THE IMPLEMENTATION AND EXPANSION OF HIGH QUALITY HIV CARE, PREVENTION AND TREATMENT ACTIVITIES IN NYANZA PROVINC	93.067	5 U2G PS001314-02 S2		782,097
SUPPT THE IMPLMTN AND EXPANSION OF HIGH QUALITY HIV CARE, PRVTN AND TMNT ACTIVITIES IN NYANZA PROV IN KENYA UNDER THE PE	93.067	5 U2G PS001314-02 S1		701,923
TECHNICAL ASSISTANCE, PRGM IMPLEMENTATION AND CAPACITY UNDER PEPFAR	93.067	5 U2G PS001423-02		678,638
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE UNITED REPUBLIC OF TANZANIA UNDER P	93.067	3 U2G PS001998-01 S2		629,660
UTAP 2 CONGO: ONSITE	93.067	1 U2G PS001526-01 SC1		578,900
RAPID SCALE UP ON HIV/AIDS CARE AND TREATMENT SERVICES IN THE KINGDOM OF SWAZILAND UNDER PEPFAR - OFFSITE	93.067	1 U2G PS002005-01 S2		562,851
TECHNICAL ASSISTANCE IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAMS IN SUPPORT OF THE PEPFAR	93.067	5 U2G PS001521-02 S1		449,118
UTAP 2 CONGO: OFFSITE	93.067	3 U2G PS001526-01 SC2		440,476
STRENGTHENING THE CAPACITY OF THE RWANDAN MOH (ONSITE)	93.067	5 U2G PS001161-03 S2		431,009
RAPID SCALE UP ON HIV/AIDS CARE AND TREATMENT SERVICES IN THE KINGDOM OF SWAZILAND UNDER PEPFAR - NY	93.067	3 U2G PS002005-02		415,207
STRENGTHENING THE CAPACITY OF THE RWANDAN MOH (OFFSITE)	93.067	5 U2G PS001161-03 S1		373,741
STRENGTHENING THE CAPACITY OF THE RWANDAN MOH (ONSITE)	93.067	5 U2G PS001161-02 S2		333,045
SUPPORTING HIV PREVENTION, CARE AND TREATMENT IN KENYA (NY)	93.067	5 U2G PS001314-03		327,833
UTAP 2: HQ (NY)	93.067	5 U2G PS001537-02		317,495
RAPID SCALE UP - ONSITE UNLIQUIDATED BALANCES	93.067	5 U2G PS002005-02 UNL		309,521
STRENGTHENING THE CAPACITY OF THE RWANDAN MOH (OFFSITE)	93.067	5 U2G PS001161-02 S1		243,986
TANZANIA IDU (URRAP) - ONSITE	93.067	5 U2G PS000950-03 SC1		234,255

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Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
TANZANIA IDU (URRAP) - OFFSITE	93.067	5 U2G PS000950-03	SC2	215,424
STRENGTHENING TB/HIV COLLABORATION IN THE KINGDOM OF LESOTHO UNDER PEPFAR - NY	93.067	3 U2G PS002011-02S1		201,052
SUPPORTING THE IMPLEMENTATION AND EXPANSION OF HIGH QUALITY HIV PREVENTION, CARE AND TREATMENT ACTIVITIES AT FACILITY AN	93.067	1 U2G PS001987-01	S1	176,614
STRENGTHENING TB/HIV COLLABORATION IN THE KINGDOM OF LESOTHO UNDER PEPFAR - ONSITE	93.067	1 U2G PS002011-01	S1	176,176
UTAP 2 - COTE D'IVOIRE (OFFSITE)	93.067	5 U2G PS001539-02	S2	146,398
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE FEDERAL REPUBLIC OF NIGERIA - OFFSI	93.067	5 U2G PS001060-03	S1	142,401
RAPID SCALE UP ON HIV/AIDS CARE AND TREATMENT SERVICES IN THE KINGDOM OF SWAZILAND UNDER PEPFAR - NY	93.067	1 U2G PS002005-01		138,063
STRATEGIC INFORMATION ACTIVITIES - CENTRAL ASIA (ICAP ON)	93.067	1 U2G PS003031-01		135,533
UTAP 2 CONGO: NY	93.067	3 U2G PS001526-01S1		123,200
STRATEGIC INFORMATION ACTIVITIES - CENTRAL ASIA (SSW OFF)	93.067	1 U2G PS003031-01	SS2	91,025
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE UNITED REPUBLIC OF TANZANIA UNDER P	93.067	3 U2G PS001998-01S1		82,489
TECHNICAL ASSISTANCE, IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAM IN SUPPORT OF PEPFAR - OFFSITE	93.067	5 U2G PS001534-02	SC2	71,479
IMPLEMENTATION OF CARE AND TREATMENT PROGRAMS - CENTRAL ASIA (SSW OFFSITE)	93.067	3 U2G PS003074-01	SOF	64,128
IMPLEMENTATION OF CARE AND TREATMENT PROGRAMS - CENTRAL ASIA (ONSITE)	93.067	3 U2G PS003074-01W1		62,214
STRENGTHENING THE CAPACITY OF THE RWANDAN MOH (NY)	93.067	5 U2G PS001161-03		58,555
SUPPT THE IMPLMTN AND EXPANSION OF HIGH QUALITY HIV CARE, PRVTN AND TMNT ACTIVITIES IN NYANZA PROV IN KENYA UNDER THE PE	93.067	5 U2G PS001314-02		54,488
TECHNICAL ASSISTANCE IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAMS IN SUPPORT OF THE PEPFAR	93.067	5 U2G PS001521-02		43,326
STRENGTHENING THE CAPACITY OF THE RWANDAN MOH (NY)	93.067	5 U2G PS001161-02		37,380
TANZANIA IDU (URRAP) - NY	93.067	5 U2G PS000950-03		36,603
TECHNICAL ASSISTANCE, PRGM IMPLEMENTATION AND CAPACITY UNDER PEPFAR - ZAMBIA	93.067	5 U2G PS001423-03		36,295
TECHNICAL ASSISTANCE, IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAM IN SUPPORT OF THE PRESIDENT'S EMERGENCY P	93.067	5 U2G PS001534-02		34,196
STRATEGIC INFORMATION ACTIVITIES - CENTRAL ASIA (SSW ON)	93.067	3 U2G PS003031-01	SS1	34,143
IMPLEMENTATION OF CARE AND TREATMENT PROGRAMS - CENTRAL ASIA (SSW ONSITE)	93.067	3 U2G PS003074-01	SON	28,400
TECHNICAL ASSISTANCE FOR STRATEGIC INFORMATION ACTIVITIES IN THE REPUBLIC OF MOZAMBIQUE UNDER PEPFAR - ON	93.067	1 U2G PS002828-01	S1	27,098
IMPLEMENTATION OF PRGMS FOR PREV, CARE & TRMT OF HIV/AIDS IN NIGERIA UNDER PEPFAR - OFFSITE	93.067	5 U2G PS001060-02	S1	26,681
UTAP 2: HQ (OFFSITE)	93.067	5 U2G PS001537-02	S1	23,849
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE FEDERAL REPUBLIC OF NIGERIA - NEW	93.067	5 U2G PS001060-03	S2	22,652
STRENGTHENING TB/HIV COLLABORATION IN THE KINGDOM OF LESOTHO UNDER PEPFAR - OFFSITE	93.067	1 U2G PS002011-01	S2	21,455
BUILDING MOZAMBIKAN CAPACITY TO IMPLEMENT QUALITY HIV/AIDS PREVENTION, CARE, AND TREATMENT PROGRAMS IN THE REPUBLIC OF M	93.067	1 U2G PS002756-01	S2	19,297
TECHNICAL ASSISTANCE FOR STRATEGIC INFORMATION ACTIVITIES IN THE REPUBLIC OF MOZAMBIQUE UNDER PEPFAR - NY	93.067	1 U2G PS002828-01		19,136
UTAP 2 SWAZILAND: OFFSITE	93.067	5 U2G PS001534-03	SC2	18,109
TECHNICAL ASSISTANCE FOR STRATEGIC INFORMATION ACTIVITIES IN THE REPUBLIC OF MOZAMBIQUE UNDER PEPFAR - OFF	93.067	1 U2G PS002828-01	S2	17,806
TECHNICAL ASSISTANCE, IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAM IN SUPPORT OF PEPFAR - ONSITE	93.067	5 U2G PS001534-02	SC1	16,971
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE UNITED REPUBLIC OF TANZANIA UNDER P	93.067	1 U2G PS001998-01	S1	16,523
TECHNICAL ASSISTANCE IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PRGMS IN SUPPORT OF THE PEPFAR (ONSITE)	93.067	5 U2G PS001521-03		15,129
UTAP 2 - COTE D'IVOIRE (ONSITE)	93.067	5 U2G PS001539-02	S1	11,634
UTAP 2: HQ (NY)	93.067	5 U2G PS001537-03		11,430

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Other Programs, continued

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BUILDING MOZAMBIKAN CAPACITY TO IMPLEMENT QUALITY HIV/AIDS PREVENTION, CARE, AND TREATMENT PROGRAMS IN THE REPUBLIC OF M	93.067	1 U2G PS002756-01		9,668
TECHNICAL ASSISTANCE, IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAM IN SUPPORT OF THE PRESIDENT'S EMERGENCY P	93.067	1 U2G PS001534-01 SC2		5,058
IMPLEMENTATION OF PRGMS FOR PREV, CARE & TRMT OF HIV/AIDS IN NIGERIA UNDER PEPFAR - NY	93.067	5 U2G PS001060-02 S2		3,226
BUILDING MOZAMBIKAN CAPACITY TO IMPLEMENT QUALITY HIV/AIDS PREVENTION, CARE, AND TREATMENT PROGRAMS IN THE REPUBLIC OF M	93.067	1 U2G PS002756-01 S1		2,919
UTAP 2 - COTE D'IVOIRE (NY)	93.067	5 U2G PS001539-02		2,056
UTAP 2: HQ (NY)	93.067	1 U2G PS001537-01		685
UTAP 2 SWAZILAND: NY	93.067	5 U2G PS001534-03		73
IMPLEMENTATION OF PRGMS FOR PREV, CARE & TRMT OF HIV/AIDS IN NIGERIA UNDER PEPFAR - ONSITE	93.067	5 U2G PS001060-02		45
TECHNICAL ASSISTANCE IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAMS IN SUPPORT OF PEPFAR - (COTE D'IVOIRE) OF	93.067	1 U2G PS001539-01 S2		0
TECHNICAL ASSISTANCE IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAMS IN SUPPORT OF PEPFAR - (COTE D'IVOIRE) ON	93.067	1 U2G PS001539-01 S1		-1,057
UTAP 2 TANZANIA - OFFSITE	93.067	1 U2G PS001521-01 S1		-4,940
TECHNICAL ASSISTANCE, IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAM IN SUPPORT OF THE PRESIDENT'S EMERGENCY P	93.067	1 U2G PS001534-01 SC1		-5,056
STRENGTHENING TB/HIV COLLABORATION IN THE KINGDOM OF LESOTHO UNDER PEPFAR - NY	93.067	1 U2G PS002011-01		-45,847
STRENGTHEN MOH & DISTRICT HEALTH TEAMS TB/HIV PRGMS IN RWANDA (ONSITE)	93.067	1 U2G PS001161-01 S2		-71,242
SUPPORT THE IMPLEMENTATION AND EXPANSION OF HIGH QUALITY HIV CARE, PREVENTION AND TREATMENT ACTIVITIES IN NYANZA PROVINC	93.067	1 U2G PS001314-01 S2		-73,329
				26,405,741
Public Health Emergency Preparedness				
NCDP PREPAREDNESS AND EMERGENCY RESPONSE LEARNING CENTER	93.069	1 U90 TP000419-01		558,439
				558,439
Comprehensive Community Mental Health Services for Children with Serious Emotional Disturbances (SED)				
SUPPORT FOR PROJECT LAUNCH	93.104	HHSP233200800651P		16,899
				16,899
Maternal and Child Health Federal Consolidated Programs				
EARLY CHILDHOOD HEALTH - PUBLIC POLICY ANALYSIS AND EDUCATION CENTER OF INFANT AND EARLY CHILDHOOD HEALTH	93.110	4 U05MC05056-05-04		282,182
GENETIC SERVICES PROJECT - SICKLE CELL MEDICAL HOMES FOR HARLEM & NORTHERN MANHATTAN	93.110	6 H46 MC09227-03-02		176,648
LEADERSHIP TRAINING IN PEDIATRIC DENTISTRY	93.110	5 T17 MC06359-06-00		132,787
HEALTHY TOMORROWS PARTNERSHIP FOR CHILDREN PROGRAM	93.110	5 H17 MC07865-04-00		32,937
HEALTHY TOMORROWS PARTNERSHIP FOR CHILDREN PROGRAM	93.110	5 H17MC07865-05-00		3,587
TRAINING CED/COR PEDIATRIC AND CHILD PSYCHIATRY - COLLABORATIVE OFFICE ROUNDS IN PEDIATRIC AMBULATORY CARE NETWORK	93.110	5 T20MC07470-04-00		2,205
GENETIC SERVICES PROJECT - SICKLE CELL MEDICAL HOMES FOR HARLEM & NORTHERN MANHATTAN	93.110	6 H46MC09227-02-02		110
				630,456
Nurse Anesthetist Traineeships				
NURSE ANESTHETIS TRAINEESHIPS	93.124	2 A22 HP00047-11-00		22,260
				22,260
AIDS Education and Training Centers				
REGIONAL AIDS ETC - NEW YORK/NEW JERSEY AIDS EDUCATION AND TRAINING CENTER	93.145	6 H4AHA00071-08-03		914,454
PEER EDUCATION TRAINING SITES AND RESOURCE AND EVALUATION CENTER - HARLEM PEER EDUCATOR TRAINING SIT	93.145	4 U20 HA06172-05-02		205,343

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

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Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
				1,119,797
Advanced Nursing Education Grant Program				
TRAINING NURSE SCIENTISTS IN INTERDISCIPLINARY & TRANSLATIONAL RESEARCH IN THE UNDERSERVED (TRANSIT)	93.247	5 D09 HP14667-03-00		217,409
				217,409
Occupational Safety and Health Program				
OCCUPATIONAL HEALTH IN HOME HEALTH CARE CONFERENCE	93.262	1 R13 OH009828-01		9,002
				9,002
Complex Humanitarian Emergency and War-Related Injury Public Health Activities				
DEVELOPING AND ESTABLISHING TECHNIQUES TO MONITOR THE GRAVE VIOLATIONS OF THE RIGHTS OF CHILDREN AND WOMEN	93.269	5 UE2 EH000540-02		242,290
DEVELOPING AND ESTABLISHING TECHNIQUES TO MONITOR THE GRAVE VIOLATIONS OF THE RIGHTS OF CHILDREN AND WOMEN	93.269	1 UE2 EH000540-01		81,117
				323,407
Centers for Disease Control and Prevention Investigations and Technical Assistance				
CENTERS FOR PUBLIC HEALTH PREPAREDNESS	93.283	3 U90 TP224241-05S1		45,441
				45,441
Advanced Nursing Education Traineeships				
ADVANCED EDUCATION NURSING TRAINEESHIPS	93.358	2 A10 HP00142-11-00		107,037
ADVANCED EDUCATION NURSING TRAINEESHIPS	93.358	2 A10 HP00142-10-00		30,240
				137,277
Nurse Education, Practice and Retention Grants				
NURSE EDUCATION PRACTICE AND RETENTION	93.359	5 D11HP07346-06-00		218,342
				218,342
Grants for Training in Primary Care Medicine and Dentistry				
FACULTY DEVELOPMENT IN PRIME CARE	93.884	4 D55 HP05154-05-04		264,853
				264,853
Ryan White HIV/AIDS Dental Reimbursements Community Based Dental Partnership				
COMMUNITY BASED DENTAL PARTNERSHIP	93.924	5 H65 HA00014-09-00		255,124
COMMUNITY BASED DENTAL PARTNERSHIP	93.924	5 H65HA00014-08-01		203,212
DENTAL REIMBURSEMENT PROGRAM	93.924	1 T22 HA21191-01-00		81,965
				540,301
Healthy Start Initiative				
ELIMINATING DISPARITIES IN PERINATAL HEALTH: DOWNSTATE NEW YORK HEALTHY START	93.926	6 H49 MC00133-10-01		1,086,524
ELIMINATING DISPARITIES IN PERINATAL HEALTH: DOWNSTATE NEW YORK HEALTHY START	93.926	6 H49 MC00133-09-01		83,237
ELIMINATING DISPARITIES IN PERINATAL HEALTH: DOWNSTATE NEW YORK HEALTHY START	93.926	5 H49 MC00133-11-00		28,256
				1,198,017
HIV Demonstration, Research, Public and Professional Education Projects				
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-07 SC8		15,817,542

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Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-07 SC3		14,419,172
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-07 SC7		10,648,960
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-07 SC4		9,713,687
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NEW YORK	93.941	5 U62 PS223540-07 SC1		8,319,357
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-07 S3		8,267,062
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-07 S7		5,302,688
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-07 SC6		4,619,262
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-07 S8		4,578,031
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-07 S1		4,502,160
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NEW YORK	93.941	5 U62 PS223540-08 SC1		3,573,685
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-07 SC2		3,522,241
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA OFF	93.941	5 U62 PS223540-08 SC8		3,304,765
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-07 S4		2,876,841
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-07 S6		2,730,560
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-07		2,649,121
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-07 S9		2,613,484
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA OFF	93.941	5 U62 PS223540-08 SC7		2,604,739
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-07 S2		2,577,499
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE OFF	93.941	5 U62 PS223540-08 SC3		2,320,559
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA ON	93.941	5 U62 PS223540-08 S4		2,256,004
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-06 S7		2,113,702
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-06 S8		1,429,209
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-06 S4		1,401,933
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE ON	93.941	5 U62 PS223540-08 S3		1,366,608
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-05 S8		1,127,424
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA ON	93.941	5 U62 PS223540-08 S8		1,114,198
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA ON	93.941	5 U62 PS223540-08 S2		790,425
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NY	93.941	5 U62 CCU223540-04 SC1		788,964
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-06 S3		744,901
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-06 SC8		729,842
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-06 S6		697,141
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA OFF	93.941	5 U62 PS223540-08 SC6		615,085
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-06 S1		588,461
PRESIDENTIAL EXPNSN PROJECT FOR AIDS RELIEF - UNICEF NIGERIA	93.941	5 U62 PS223540-05 SP8		555,898
MCAP YR 5 ETHIOPIA (ONSITE)	93.941	5 U62 PS223540-07 ET5		511,154
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-06 SC7		462,663
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-06 SC9		414,159

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PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 CCU223540-03 S8		399,659
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA ON	93.941	5 U62 PS223540-08 S7		386,398
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA OFF	93.941	5 U62 PS223540-08 SC2		385,658
MCAP YR 6 SOUTH AFRICA	93.941	5 U62 PS223540-07 SA6		336,921
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-06 SC3		335,987
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-06 SC6		331,516
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA OFF	93.941	5 U62 PS223540-08 SC4		327,003
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-06 S2		314,538
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-05 S1		312,728
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-06 SC4		297,753
MCAP YR 5 KENYA	93.941	5 U62 PS223540-07 KY5		295,688
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-07 SC9		269,753
MCAP YR 5 NIGERIA	93.941	5 U62 PS223540-07 NG5		269,212
MCAP YR 5 MOZAMBIQUE	93.941	5 U62 PS223540-07 MZ5		259,372
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-06 SC2		255,412
MCAP YR 6 ETHIOPIA	93.941	5 U62 PS223540-07 ET6		252,649
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA OFF	93.941	5 U62 PS223540-08		251,125
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA ON	93.941	5 U62 PS223540-08 S1		230,205
MCAP YR 5 TANZANIA	93.941	5 U62 PS223540-07 TZ5		218,414
MCAP YR 7 KENYA	93.941	5 U62 PS223540-08 KY7		209,307
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA ON	93.941	5 U62 PS223540-08 S6		192,171
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 CCU223540-04 S1		186,054
MCAP YR 6 KENYA	93.941	5 U62 PS223540-07 KY6		179,922
UNICEF SOUTH AFRICA	93.941	5 U62 PS223540-07 UN4		179,206
MCAP YR 6 MOZAMBIQUE	93.941	5 U62 PS223540-07 MZ6		160,894
MCAP YR 5 SOUTH AFRICA	93.941	5 U62 PS223540-07 SA5		142,626
MCAP YR 6 TANZANIA	93.941	5 U62 PS223540-07 TZ6		140,903
MCAP YR 6 COTE D'IVOIRE	93.941	5 U62 PS223540-07 CD6		133,775
MCAP YR 6 NIGERIA	93.941	5 U62 PS223540-07 NG6		121,286
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-05 S4		119,517
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE ON	93.941	5 U62 PS223540-08 SC9		71,821
MCAP YR 7 ETHIOPIA (ON)	93.941	5 U62 PS223540-08 ET7		69,688
MCAP YR 5 KENYA	93.941	5 U62 PS223540-08 KY5		67,882
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-05 S2		63,568
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-05 S6		57,012
MCAP YR 5 RWANDA	93.941	5 U62 PS223540-07 RW5		54,622
MCAP YR 7 TANZANIA	93.941	5 U62 PS223540-08 TZ7		36,038

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MCAP YR 5 COTE D'IVOIRE	93.941	5 U62 PS223540-07	CD5	35,954
MCAP YR 5 ETHIOPIA/SA	93.941	5 U62 PS223540-06	ES5	33,797
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE OFF	93.941	5 U62 PS223540-08	S9	31,187
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NEW YORK	93.941	5 U62 PS223540-06	SC1	24,841
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - CIESIN	93.941	5 U62 PS223540-08	CIE	23,994
MCAP YR 6 RWANDA	93.941	5 U62 PS223540-07	RW6	22,781
MCAP YR 4 ETHIOPIA/TANZANIA	93.941	5 U62 PS223540-07	Y4	20,746
MCAP YR 7 RWANDA	93.941	5 U62 PS223540-08	RW7	13,806
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-05	S3	2,399
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-06	S9	2,277
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-05	SC9	854
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-05	S9	-2,277
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 CCU223540-04	S2	-3,051
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 CCU223540-04	SC7	-12,321
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-06		-30,667
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 CCU223540-04	SC8	-109,226
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-05	SC6	-185,993
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 CCU223540-04	SC4	-244,958
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 CCU223540-04		-324,330
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-05	SC3	-335,987
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-05	SC2	-343,301
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-05	SC4	-347,810
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-05	SC7	-462,663
PRESIDENTIAL EXPNSN PROJECT FOR AIDS RELIEF - UNICEF S. AFRICA	93.941	5 U62 PS223540-05	SP4	-555,898
UNICEF NIGERIA	93.941	5 U62 PS223540-06	UN8	-672,066
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 CCU223540-03	S4	-952,131
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-05	SC8	-3,025,265
				133,190,161

Epidemiologic Research Studies of Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV) Infection in Selected Population Groups

COLUMBIA HIV/AIDS RESPONSE TEAM - MOZAMBIQUE	93.943	5 U62 PS222407-05	MOZ	427,021
COLUMBIA HIV/AIDS RESPONSE TEAM - RWANDA	93.943	5 U62 PS222407-05	RWA	198,649
COLUMBIA HIV/AIDS RESPONSE TEAM - RWANDA	93.943	5 U62 PS222407-05	RW1	151,268
COLUMBIA HIV/AIDS RESPONSE TEAM - SOUTH AFRICA	93.943	5 U62 PS222407-05	SA1	97,717
COLUMBIA HIV/AIDS RESPONSE TEAM - MOZAMBIQUE	93.943	5 U62 PS222407-05	MO1	77,991
COLUMBIA HIV/AIDS RESPONSE TEAM - NEW YORK	93.943	5 U62 PS222407-05		26,954
COLUMBIA HIV/AIDS RESPONSE TEAM - SOUTH AFRICA	93.943	5 U62 PS222407-05	SAF	19,270
COLUMBIA HIV/AIDS RESPONSE TEAM - ZAMBIA	93.943	5 U62 PS222407-05	ZAM	-14,676

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COLUMBIA HIV/AIDS RESPONSE TEAM - TANZANIA	93.943	5 U62 PS222407-05 TAN		-20,761
				<u>963,433</u>
Public Health Traineeships				
PUBLIC HEALTH TRAINEESHIP	93.964	5 A03 HP01173-15-00		78,361
				<u>78,361</u>
Total Direct Award Programs:				<u>167,050,764</u>
Pass-through Awards				
Other DHHS (Non-NIH)				
COUNCIL OF GRADUATE SCHOOLS	93.000	CGS PO #100	ORI CU09-0904	4,508
				<u>4,508</u>
Global AIDS				
VOXIVA, INC	93.067	VOXIVA VOX-ICAP-01 S1	1 U2G PS001847-01	43,694
JOHNS HOPKINS PROG FOR INTRNL EDUCA. IN GYN/OB	93.067	JHPIEGO 10-AWD-003	1 U2G PS001463-01	17,480
VOXIVA, INC	93.067	VOXIVA VOX-ICAP-01	1 U2G PS001847-01	8,382
JOHNS HOPKINS PROG FOR INTRNL EDUCA. IN GYN/OB	93.067	JHPIEGO 10-AWD-003 ON	1 U2G PS001463-01	4,951
TULANE UNIVERSITY	93.067	TULANE CU08-9856 S1	U62/CCU622410-05W1	-176,596
				<u>-102,089</u>
Project Grants and Cooperative Agreements for Tuberculosis Control Programs				
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.116	DVAMC V688P-2933	2 R01 *CDC	15,097
				<u>15,097</u>
Emergency Medical Services for Children				
CHILDREN'S RESEARCH INSTITUTE AT CHILDREN'S NATIONAL MEDICAL CE	93.127	CRICNMC 4518-08-02	5 U07 MC09174-02-00	-340
				<u>-340</u>
Substance Abuse and Mental Health Services_P rojects of Regional and National Significance				
FUND FOR PUBLIC HEALTH IN NEW YORK	93.243	FPHNY 57TRUCO-001	1 H79 SM060274-01	45,205
				<u>45,205</u>
Centers for Disease Control and Prevention_I nvestigations and Technical Assistance				
NEW YORK CITY POLICE FOUNDATION	93.283	NYCPFDN CU08-4283	1 U01 OH009173-01	210,481
MOUNT SINAI SCHOOL OF MEDICINE	93.283	MSSM CU11-0161	5 U58 DP001010-04	14,792
				<u>225,273</u>
Health Careers Opportunity Program				
MOUNT SINAI SCHOOL OF MEDICINE	93.822	MSSM 0523-6293-4609	5 D18 HP10627-03-00	141,710
MOUNT SINAI SCHOOL OF MEDICINE	93.822	MSSM 0523-6291-4609	5 D18 HP10627-02	118,917
				<u>260,627</u>
HIV Emergency Relief Project Grants				
PUBLIC HEALTH SOLUTIONS	93.914	PUBHS 93-EVL-4645	DHHS HIV	-1,371

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
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Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
				-1,371
HIV Care Formula Grants				
HEALTH RESEARCH INCORPORATED	93.917	SHRI 3603-03	2X07HA0002520	129,830
HEALTH RESEARCH INCORPORATED	93.917	SHRI CU08-3934	2X07HA000251800	2,389
				132,219
Epidemiologic Research Studies of Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV) Infection in Selected Population Groups				
NEW YORK ACADEMY OF MEDICINE	93.943	NYAM CU08-7393		15,473
NEW YORK ACADEMY OF MEDICINE	93.943	NYAM CU08-7393	5 U01 PS000698-04	14,766
				30,239
Block Grants for Community Mental Health Services				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.958	RFMH CU09-3305	SAMSA #33430-9S-1385	41,433
AMERICAN PSYCHIATRIC ASSOCIATION	93.958	APSYA CU08-9623	SAMSA	6,385
				47,818
Geriatric Education Centers				
MOUNT SINAI SCHOOL OF MEDICINE	93.969	MSSM 0253-6152-4609	5 D31 HP08803-03-00	7,957
				7,957
Maternal and Child Health Services Block Grant to the States				
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	DOH C021666	DHHS	52,018
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDH C-023846	DHHS/HRSA	50,002
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	NYSDOH C-023845	HHS	23,692
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	DOH C023891	DHHS	6
				125,718
Total Pass-through Programs:				790,861
Total: Department of Health & Human Services (Excluding NIH)				167,841,625
National Institute of Health				
Direct Awards				
Mental Health Research Grants				
TREATING CHILDREN WITH TRAUMA: AN EVIDENCE BASED CURRICULUM	93.242	5 R25MH084786-04		29,039
GENETIC AND NEURAL COMPLEXITY IN PSYCHIATRY	93.242	5 R13 MH091947-02		20,205
HIV INTERVENTION SCIENCE TRAINING PROGRAM FOR MINORITYNEW INVESTIGATORS	93.242	5 R25MH080665-03		-115,612
				-66,368
Cancer Cause and Prevention Research				
HUMAN BEHAVIOR AND EXPERIENCE IN HEALTH AND ILLNESS A 4 YEAR CURRICULUM AT COLUMBIA	93.393	5 K07 HL082628-05		335,120
HUMAN BEHAVIOR AND EXPERIENCE IN HEALTH AND ILLNESS	93.393	3 K07 HL08268-05S1		162,025
				497,145

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
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For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Cancer Research Manpower				
TRAINING PROGRAM IN CANCER-RELATED POPULATION SCIENCES	93.398	5 R25 CA094061-09		382,191
RISK FACTORS FOR SITE-SPECIFIC METASTASIS IN ESOPHAGEAL CANCER	93.398	5 K07 CA132892-04		152,951
A PILOT STUDY OF STATIN THERAPY AND RISK OF MALIGNANT GLIOMA	93.398	5 K07 CA127468-04		149,919
ASSESSMENT OF INHERITED COLON CANCER PREDICTION MODELS IN DIVERSE POPULATIONS	93.398	1 K07 CA151769-01		114,551
TRAINING PROGRAM IN CANCER-RELATED POPULATION SCIENCES SUPP	93.398	3 R25 CA094061-09 S1		62,870
TRAINING PROGRAM IN CANCER-RELATED POPULATION SCIENCES	93.398	5 R25 CA094061-08		37,296
TRAINING PROGRAM IN CANCER-RELATED POPULATION SCIENCES SUPP	93.398	3 R25 CA094061-08 S1		15,677
				915,455
Cardiovascular Diseases Research				
FIRST IN CER (FACILITATING INDEPENDENCE IN RESEARCH THROUGH SUMMER TRAINING IN COMPARATIVE EFFECTIVENESS RESEARCH) DIVER	93.837	1 R25 HL105401-01		115,740
BEST-DP: BIOSTATISTICS ENRICHMENT SUMMER TRAINING DIVERSITY PROGRAM	93.837	5 R25 HL096260-03		67,134
				182,874
Extramural Research Programs in the Neurosciences and Neurological Disorders				
R25 NEUROLOGY RESEARCH EDUCATION AND MENTORSHIP PROGRAM	93.853	5 R25 NS070697-02		12,819
				12,819
Allergy, Immunology and Transplantation Research				
SUMMER IMMUNOLOGY RESEARCH PROGRAM FOR HIGH SCHOOL SCIENCE TEACHERS	93.855	5 R25 AI080566-03		111,741
				111,741
Biomedical Research and Research Training				
IMSD AT COLUMBIA'S MAILMAN SCHOOL OF PUBLIC HEALTH	93.859	5 R25 GM062454-08		409,973
CASP6-CASP8 MEETINGS	93.859	5 R13 GM072354-05		10,625
				420,598
Child Health and Human Development Extramural Research				
RELIGIOUS RESPONSES TO HIV AND AIDS: UNDERSTANDING THE ROLE OF RELIGIOUS CULTURES AND INSTITUTIONS IN CONFRONTING THE EP	93.865	1 R13 HD066966-01		5,933
				5,933
Medical Library Assistance				
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	5 T15 LM007079-19		845,053
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	3 T15 LM007079-19 S1		189,645
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	5 T15 LM007079-18		26,246
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	3 T15 LM007079-18 SC1		2,810
				1,063,754
Total Direct Award Programs:				3,143,951
Pass-through Awards				
National Library of Medicine				
NEW YORK UNIVERSITY MEDICAL CENTER	93.000	NYU 05-0864	N01-LM-6-3501	25,055

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
				<u>25,055</u>
Mental Health Research Grants				
MOUNT SINAI SCHOOL OF MEDICINE	93.242	MSSM 0253-6141-4609	5 R25 MH080663-03	3,541
				<u>3,541</u>
Allergy, Immunology and Transplantation Research				
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.855	DVAMC CU00-0110	U01 AI068641	1,288
				<u>1,288</u>
Total Pass-through Programs:				<u>29,884</u>
Total: National Institute of Health				<u>3,173,835</u>

National Science Foundation

Direct Awards

Engineering Grants

COLUMBIA ENGINEERING SCHOOL RET (CESRET)	47.041	EEC-06-01984		15,696
				<u>15,696</u>

Mathematical and Physical Sciences

REU SITE AT NEVIS LANS, COLUMBIA UNIVERSITY	47.049	PHY-1062183	PAR	65,342
REU SITE AT NEVIS LABS, COLUMBIA UNIVERSITY	47.049	PHY-1062183		1,297
				<u>66,639</u>

Computer and Information Science and Engineering

NSF SUPPORT FOR THE 2010 NEW SECURITY PARADIGMS WORKSHOP FINANCIAL AID	47.070	CNS-1019309		4,513
NSF SUPPORT FOR THE 2009 NEW SECURITY PARADIGMS WORKSHOP FINANCIAL	47.070	CNS-0957596		2,380
				<u>6,893</u>

Social, Behavioral, and Economic Sciences

DOCTORAL DISSERTATION IN POLITICAL SCIENCE THE MERITS OF MONEY AND "MUSCLE": HOW SERIOUS CRIMINALITY	47.075	SES-1022234		8,165
				<u>8,165</u>

Education and Human Resources

GRADUATE RESEARCH FELLOWSHIP PROGRAM	47.076	DGE-07-07425		2,853,974
NEW, GK-12 COLUMBIA UNIVERSITY LEARNING FROM EARTH AND ECOLOGICAL FIELD STUDIES (LEEFS) GRADUATE FELLOWSHIP PROGRAM	47.076	DGE-0742450	SC2	412,283
COLUMBIA UNIVERSITY LEARNING FROM EARTH AND ECOLOGICAL FIELD STUDIES (LEEFS) GRADUATE FELLOWSHIP PRO	47.076	DGE-07-42450		190,684
NEW, GK-12 COLUMBIA UNIVERSITY LEARNING FROM EARTH AND ECOLOGICAL FIELD STUDIES (LEEFS) GRADUATE	47.076	DGE-07-42450	PHY	6,080
				<u>3,463,021</u>

Total Direct Award Programs: 3,560,414

Total: National Science Foundation 3,560,414

The Trustees of Columbia University in the City of New York
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For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
National Aeronautics & Space Administration				
Pass-through Awards				
National Aeronautics & Space Administration				
CITY SCHOOL DISTRICT OF NEW ROCHELLE	43.000	CSDNR CU10-2873	NNX10AU94A	3,247
				<u>3,247</u>
Science				
SCIENCE MUSEUM OF MINNESOTA	43.001	SDRF CU10-0230	NNH08ZNE006N	73,600
				<u>73,600</u>
Total Pass-through Programs:				<u>76,847</u>
Total: National Aeronautics & Space Administration				<u>76,847</u>

Department of Energy
Pass-through Awards

Office of Science Financial Assistance Program

BROOKHAVEN NATIONAL LABORATORY	81.049	BNL #122048	SCO	DE-AC02-98CH10886	29,750
					<u>29,750</u>
Total Pass-through Programs:					<u>29,750</u>
Total: Department of Energy					<u>29,750</u>

Department of Defense
Direct Awards

Basic and Applied Scientific Research

HOSTOS SUBCONTRACT ONR SERRANO COHORT 8	12.300	N00014-08-1-1127	HOS		294,352
GS FINANCIAL AID ONR SERRANO COHORT 6	12.300	N00014-06-1-1097	GFA		106,205
GS STUDENT SERVICES ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	GSS		96,878
GS ADMINISTRATIVE SUPPORT ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	GAS GAS		77,271
GS FINANCIAL AID ONR SERRANO COHORT 8	12.300	N00014-08-1-1127	GFA		69,300
GS FINANCIAL AID ONR SERRANO COHORT 5	12.300	N00014-05-1-0858	GFA		50,400
GS ADMISSIONS ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855			45,871
SIPA STUDENT SERVICES ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	SSS		22,717
GS FINANCIAL AID ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	GFA		17,697
GS INFO TECH ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	GIT		12,635
SIPA ADMISSIONS ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	SAD		9,233
SIPA FINANCIAL AID ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	SFA		6,599

The accompanying footnotes are an integral part of the Supplemental Schedule of Expenditures of Federal Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
HOSTOS SUBCONTRACT ONR GLOBAL COHORT 9	12.300	N00014-10-1-0855	HOS	6,579
GS STUDENT SERVICES ONR SERRANO COHORT 8	12.300	N00014-08-1-1127	GSS	407
				816,144
Total Direct Award Programs:				816,144
Total: Department of Defense				816,144

Department of Education

Direct Awards

National Resource Centers Program for Foreign Language and Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship Program

ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015A060078-09		63,633
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015B060078-09		52,093
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS FOR MIDDLE EAST INSTITUTE	84.015	DE P015B060101-09		43,864
MIDDLE EAST INSTITUTE NATIONAL RESOURCE CENTERS, COLUMBIA UNIVERSITY	84.015	DE P015A060101-09	LIB	36,666
MIDDLE EAST INSTITUTE NATIONAL RESOURCE CENTERS, COLUMBIA UNIVERSITY	84.015	DE P015A060101-09		28,233
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIA STUDIES	84.015	DE P015A060144-09		25,967
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060114-09	LIB	17,462
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015B060025-09		17,011
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS FOR THE INSTITUTE OF AFRICAN STUDIES	84.015	DE P015B060002-09	SC3	15,429
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE-P015B060127-09		13,573
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B060144-09		10,700
NATIONAL RESOURCES CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-09	STA	6,666
WEST EUROPEAN NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AND AREA FELLOWSHIPS	84.015	DE P015A060127-09		3,306
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015A060078	LIB	1,190
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060144-09	SYP	969
NATIONAL RESOURCES CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-09	EAL	890
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060144-09	OUT	648
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-09	OUT	302
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-09	EAL	202
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060114-09	INS	60
NATIONAL RESOURCE CTR-EAST EUROPEAN, RUSSIAN & EURASIAN AREAAND AREA FELLOWSHIPS	84.015	DE P015A060127-09	LIB	-270
FOREIGN LANGUAGE AND AREA STUDIES FELLOWISHIP FOR THE INSTITUTE OF AFICAN STUDIES COLUMBIA UNIVERSIT	84.015	DE-P015B060002-08	SCO	-5,146
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015A060078	INS	-7,054
				326,394

Overseas Programs - Doctoral Dissertation Research Abroad

FULBRIGHT-HAYS DOCTORAL DISSERTATION RESEARCH ABROAD PROGRAM 2009-2010	84.022	DE P022A090048		7,120
				7,120

The Trustees of Columbia University in the City of New York

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For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Javits Fellowships				
JACOB JAVITS FELLOWSHIP	84.170	DE P170B090002-10		348,332
JACOB JAVITS FELLOWSHIP 2008/2009	84.170	DE P170B080002-10		287,945
JACOB JAVITS FELLOWSHIP 2007/2008	84.170	DE P170B070032-10		8,430
				644,707
Centers for International Business Education				
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-09 OTP		84,214
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-09 CHZ		17,815
				102,029
Total Direct Award Programs:				1,080,250
Pass-through Awards				
National Resource Centers Program for Foreign Language and Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship Program				
NEW YORK UNIVERSITY	84.015	NYU F6025-01	DE-P015A6018-01	14,313
NEW YORK UNIVERSITY	84.015	NYU F6025-01 LIB	DE-P015A6018-01	13,316
NEW YORK UNIVERSITY	84.015	NYU F6014-01	DEP015B060168-01	4,499
				32,128
Total Pass-through Programs:				32,128
Total: Department of Education				1,112,378

Department of State

Direct Awards

Department of State

CLEVELAND GOVERNMENT ASSIGNMENT	19.000	DS CU09-4436 EXT EXT		170,917
CLEVELAND GOVERNMENT ASSIGNMENT	19.000	DS CU09-4436		36,646
TIBETAN ECOTOURISM TRAINING PROJECT YEAR 2	19.000	DS SECAPE06GR150(CS)		-1,040
				206,523

Department of State

GS FINANCIAL AID DOS GLOBAL COHORT 10	19.202	DS S-LMAQM-10-GR-076 GFA		200,828
GS FINANCIAL AID DOS GLOBAL COHORT 9	19.202	DS S-LMAQM-09-GR-069 GFA		140,270
HOSTOS SUBCONTRACT DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 HOS		137,295
GS FINANCIAL AID DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 GFA		121,031
GS STUDENT SERVICES DOS GLOBAL COHORT 10	19.202	DS SLMAQM10GR076 GSS		111,780
HOSTOS SUBCONTRACT DOS GLOBAL COHORT 9	19.202	DS S-LMAQM-09-GR-069 HOS		91,087
GS FINANCIAL AID DOS SERRANO COHORT 5	19.202	DS SLMAQM-05-GR-104 GFA		90,249
GS ADMINISTRATIVE SUPPORT DOS GLOBAL COHORT 10	19.202	DS S-LMAQM-10-GR-076 GAS		68,437

The Trustees of Columbia University in the City of New York
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For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
GS FINANCIAL AID DOS SERRANO COHORT 7	19.202	DS SLMAQM07GR200	GFA	62,797
GS FINANCIAL AID DOS SERRANO COHORT 6	19.202	DS SLMAQM06GR176	GFA	50,400
GS ADMISSION DOS GLOBAL COHORT 10	19.202	DS S-LMAQM-10-GR-076		40,580
SIPA STUDENT SERVICES DOS GLOBAL COHORT 10	19.202	DS SLMAQM10GR076	SSS	20,560
GS INFO TECH DOS GLOBAL COHORT 10	19.202	DS SLMAQM10GR076	GIT	10,534
SIPA ADMISSIONS DOS GLOBAL COHORT 10	19.202	DS SLMAQM10GR076	SAD	8,197
SIPA FINANCIAL AID DOS GLOBAL COHORT 10	19.202	DS S-LMAQM-10-GR-076		5,845
GS INFO TECH DOS GLOBAL COHORT 9	19.202	DS S-LMAQM-09-GR-069	GIT	593
GS INFO TECH DOS SERRANO COHORT 6	19.202	DS SLMAQM06GR176	GIT	184
GS STUDENT SERVICES DOS GLOBAL COHORT 9	19.202	DS S-LMAQM-09-GR-069	GSS	-468
				1,160,199

Professional and Cultural Exchange Programs - Citizen Exchanges

TIBETAN ECOTOURISM ACCREDITATION PROJECT	19.415	S-EACPE-10-GR-240(SS		188,056
				188,056

Department of State

MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/S. AFRICA	98.000	AID GP0-A-00-03-0000 SC6		2,845,927
MTCT - PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/SWAZILAND	98.000	AID GP0-A-00-03-0000 SC8		1,029,098
MTCT - PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/SWAZILAND	98.000	AID GP0-A-00-03-0000 SC9		483,491
MALARIA LABORATORY DIAGNOSIS AND MONITORING PROJECT - OFFSITE	98.000	AID 663-A-00-08-0043 SC2		359,127
CENTER ON CHILD PROTECTION AT THE UNIVERSITY OF INDONESIA	98.000	AID 497-A-00-10-0000		223,039
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/LESOTHO	98.000	AID GP0-A-00-03-0000 SC3		204,863
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/NEW YORK UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT	98.000	AID GP0-A-00-03-0000 SC1		187,976
MALARIA LABORATORY DIAGNOSIS AND MONITORING PROJECT - NY	98.000	AID 663-A-00-08-0043 SC1		14,216
MALARIA LABORATORY DIAGNOSIS AND MONITORING PROJECT - ONSITE	98.000	AID 663-A-00-08-0043		5,480
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/LESOTHO	98.000	AID GP0-A-00-03-0000 SC4		1,618
MTCT - A PROPOSAL TO THE US AGENCY FOR INTERNATIONAL DEVELOPMENT	98.000	AID GP0-A-00-03-0000		3
				5,354,838

Total Direct Award Programs:

6,909,616

Pass-through Awards

Department of State

JOHNS HOPKINS PROG FOR INTRN'L EDUCA. IN GYN/OB	19.000	JHPIEGO CU10-2068 S1	AID CU10-2068	120,029
				120,029

Academic Exchange Programs - Undergraduate Programs

AMERICAN COUNCILS FOR INTERNATIONAL EDUCATION	19.009	ACIE CU10-0910	DS S-ECAAE-10-CA-057(KF)	144,458
				144,458

USAID Foreign Assistance for Programs Overseas

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Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
EAST WEST MANAGEMENT INSTITUTE	98.001	EWMI 494-10-100-3016	AID-114-A-10-00005	115,401
				115,401
Total Pass-through Programs:				379,888
Total: Department of State				7,289,504

Environmental Protection Agency
Direct Awards

Surveys, Studies, Investigations and Special Purpose Grants within the Office of the Administrator

CONFERENCE CO-SPONSORSHIP BETWEEN THE EARTH INSTITUTE AND THE EPA	66.610	EPA 97210101		15,000
				15,000
Total Direct Award Programs:				15,000
Total: Environmental Protection Agency				15,000

Nat. Endowment for the Arts & Humanities
Direct Awards

Promotion of the Arts Grants to Organizations and Individuals

NATIONAL ENDOWMENT FOR THE ARTS AMERICAN MASTERPIECES CHAMBER MUSIC	45.024	NEA 10-3148-7305		20,000
SIGHTLINES: NANCY HOLT	45.024	NEA #08-4400-7035		19,280
				39,280
Total Direct Award Programs:				39,280

Pass-through Awards

National Leadership Grants

WGBH Educational Foundation	45.312	WGBH CU08-9908	IMLS LG-05-07-0166-07	6,288
				6,288
Total Pass-through Programs:				6,288
Total: Nat. Endowment for the Arts & Humanities				45,568

Other Agencies / Gov't
Pass-through Awards

Small Business Development Centers

RESEARCH FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK	59.037	SUNYRF 52082	SBA 0-903001-Z-0033-5	31,084
				31,084
Total Pass-through Programs:				31,084
Total: Other Agencies / Gov't				31,084

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For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Sub-Total: OTHER PROGRAMS				183,992,149

ARRA FUNDED PROGRAMS

Department of Health & Human Services
Direct Awards

Public Health Traineeship Program

ARRA-PUBLIC HEALTH TRAINEESHIP PROGRAM	93.405	1 A0AHP16425-01-00		67,942
				67,942

Head Start

ARRA-EARLY HEAD START	93.708	02SE9933/01		67,994
				67,994

Health Information Technology Professionals in Health Care

ARRA-TIMELY TRAINING OF WORKERS COMPETENT TO SUPPORT EHR DEPLOYMENT AND MEANINGFUL USE	93.721	1 T15 OC000060-01		1,284,356
				1,284,356

Total Direct Award Programs:

1,420,292

Total: Department of Health & Human Services (Excluding NIH)

1,420,292

National Institute of Health
Direct Awards

Trans-NIH Recovery Act Research Support

ARRA-CORE RESEARCH COMPUTING FACILITY	93.701	1 G20 RR030893-01		268,269
				268,269

Total Direct Award Programs:

268,269

Total: National Institute of Health

268,269

Department of Commerce
Direct Awards

National Institute of Standards and Technology Construction Grant Program

ARRA-THE ULTRACLEAN GEOCHEMISTRY LABORATORY AT LAMONT-DOHERTY EARTH OBSERVATORY (LDEO), COLUMBIA UNIVERSITY	11.618	NIST 60NANB10D037		949,870
				949,870

Total Direct Award Programs:

949,870

Total: Department of Commerce

949,870

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2011

Other Programs, continued

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA</u>	<u>Project No.</u>	<u>Pass-through Contract Number</u>	<u>Expenditures</u>
Environmental Protection Agency				
Direct Awards				
National Clean Diesel Emissions Reduction Program				
ARRA-AMERICAN RECOVERY AND REINVESTMENT ACT FUNDING FOR THE NATIONAL CLEAN DIESEL FUNDING ASSISTANCE PROGRAM	66.039	EPA NO. 2A97232601		58,674
				<u>58,674</u>
Total Direct Award Programs:				<u>58,674</u>
Total: Environmental Protection Agency				<u>58,674</u>
Sub-Total: ARRA FUNDED PROGRAMS				<u>2,697,105</u>
Total: OTHER PROGRAMS including ARRA FUNDED				<u>186,689,254</u>
Total Federal Award Expenditures:				<u><u>\$ 1,162,299,089</u></u>

The Trustees of Columbia University in the City of New York
Notes to Summary Schedule of Expenditures of Federal Awards
Year ended June 30, 2011 (expenditures in thousands)

1. Basis of Presentation

The accompanying Supplemental Schedule of expenditures of Federal Awards (the "Schedule") has been prepared in accordance with OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations. The purpose of the Schedule is to present a summary of those activities of The Trustees of Columbia University in the City of New York (the "University") for the year ended June 30, 2011, which have been financed by the U.S. Government ("Federal awards"). For purposes of the Schedule, Federal awards include all Federal assistance entered into directly between the University and the Federal government and also between the University and other primary recipients of Federal government funds (pass-through), recorded on the accrual basis of accounting. Negative amounts listed on the Schedule represent adjustments, in the normal course of business, to amounts included on the prior year's Schedule. The project number and pass-through contract number on the Schedule represent the Federal identification number assigned to the applicable program. CFDA numbers and pass-through numbers are provided when applicable.

2. Subrecipients

During fiscal year 2011, the University provided \$130,184 to subrecipients in the following programs:

Program or Cluster	CFDA No.	Amount
Research and development	Various	\$ 78,652
HIV Demonstration, Research, Public and Professional Education Projects	93.941	33,613
	93.067	7,585
	93.943	187
Other	98.000	3,612
	93.145	3,020
	93.926	764
	93.000	341
	93.721	340
	12.300	301
	19.202	296
	93.924	252
	84.015	239
	93.989	218
	93.249	203
	93.281	139
	93.411	111
	93.389	92
	93.855	75
	93.110	52
	93.999	44
	93.398	28
	93.242	18
	93.226	1
	93.837	1
		\$ 130,184

The Trustees of Columbia University in the City of New York
Notes to Summary Schedule of Expenditures of Federal Awards
Year ended June 30, 2011 (expenditures in thousands)

3. Facility and Administrative Costs

The University's negotiated predetermined cost rates for the year ended June 30, 2011 were as follows:

	Rate
All campuses, excluding Lamont-Doherty Earth Observatory	
On-campus	61.0 %
Off-campus	26.0 %
Off-campus modified	29.4 %
Lamont-Doherty Earth Observatory	
On-campus	54.0 %
Off-campus	26.0 %
Off-campus modified	29.4 %
Other sponsored activity	
On-campus	31.0 %
Off-campus	26.0 %

4. Guaranteed Student Loan Programs

With respect to the Federal Direct Lending Program, the University is only responsible for the performance of certain administrative duties; therefore, the transactions and the balances of loans outstanding related to this program are not included in the University's consolidated financial statements. The Schedule includes the amounts loaned to students during the year ended June 30, 2011. It is not practical to estimate the outstanding balance of loans under this program.

5. Student Loan Programs

The University administers the following loan programs:

Federal Agency	Program	Federal CFDA No.	Loans Issued for the year ended June 30, 2011	Outstanding Principal Balance at June 30, 2011
Education	Perkins Loan	84.038	\$ 6,846	\$ 56,587
Education	Perkins Loan Cancelled	84.038	(954)	N/A
DHHS	Health Professionals	93.342	1,531	6,975
DHHS	Nursing Students	93.364	120	755

The federally approved administrative cost allowed under the Title IV program for Federal Work study, Federal Perkins and Federal SEOG for the fiscal year ending June 30, 2011 was \$585. This expense was charged to one program, the Federal Perkins Loan program. The administrative cost allowance is determined as a percentage of the total program expenditures. The formula permits administrative cost charge at 4.5% of the first \$5,500 expended and 3% on expenditures over \$5,500.

6. Other Federal Loans

In July 2010, the University prepaid in full two loans totaling \$3,262 from the U.S. Department of Education in connection with housing programs. As of June 30, 2011 the University does not have any loans outstanding from the U.S. Department of Education.



Report of Independent Auditors on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with *Government Auditing Standards*

To The Trustees of Columbia University in the City of New York:

We have audited the consolidated financial statements of The Trustees of Columbia University in the City of New York (the "University") as of and for the year ended June 30, 2011 and have issued our report thereon dated October 21, 2011, which included an explanatory paragraph related to a change in the manner in which the University classifies accumulated total investment returns within net assets as a result of the adoption of ASC 958, Not-for-Profit Entities (formerly FASB Staff Position No. 117-1). We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States.

Internal Control Over Financial Reporting

In planning and performing our audit, we considered the University's internal control over financial reporting as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control over financial reporting. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over financial reporting.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis. A material weakness is a deficiency, or combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over financial reporting that might be deficiencies, significant deficiencies, or material weaknesses. We did not identify any deficiencies in internal control over financial reporting that we consider to be material weaknesses, as defined above.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether The University's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit and, accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.



We noted certain matters that we reported to management of the University in a separate letter dated October 21, 2011.

This report is intended solely for the information and use of the University's audit committee, management, others within the entity, federal awarding agencies and pass-through entities and is not intended to be and should not be used by anyone other than these specified parties.

PricewaterhouseCoopers LLP

October 21, 2011



**Report of Independent Auditors on Compliance with Requirements
That Could Have a Direct and Material Effect on Each Major Program and on Internal
Control Over Compliance in Accordance with OMB Circular A-133**

To The Trustees of Columbia University in the City of New York:

Compliance

We have audited the compliance of The Trustees of Columbia University in the City of New York (the "University") with the types of compliance requirements described in the OMB Circular A-133 Compliance Supplement that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2011, except as described in the second paragraph of this report. The University's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs. Compliance with the requirements of laws, regulations, contracts, and grants applicable to each of its major federal programs is the responsibility of the University's management. Our responsibility is to express an opinion on the University's compliance based on our audit.

We did not audit the University's compliance with the functions of billing, collection, processing deferments and due diligence compliance requirements specified by the Federal Perkins Loan Program ("Perkins Loan") and described in the OMB Circular A-133 Compliance Supplement. Compliance with these requirements was audited by other auditors whose report thereon has been furnished to us, and our opinion expressed herein, insofar as it relates to the University's compliance with those requirements, is based solely on the report of the other auditors.

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States; and OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations. Those standards and OMB Circular A-133 require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion. Our audit does not provide a legal determination on the University's compliance with those requirements.

In our opinion, based on our audit and the report of other auditors, the University complied, in all material respects, with the requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2011. However, the results of our auditing procedures disclosed instances of noncompliance with those requirements, which are required to be reported in accordance with OMB Circular A-133 and which are described in the accompanying schedule of findings and questioned costs as items 2011-1 through 2011-3.



Internal Control Over Compliance

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the requirements of laws, regulations, contracts, and grants applicable to federal programs. In planning and performing our audit, except as noted in the following paragraph, we considered the University's internal control over compliance with the requirements that could have a direct and material effect on a major federal program in order to determine the auditing procedures for the purpose of expressing our opinion on compliance and to test and report on internal control over compliance in accordance with OMB Circular A-133, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

We did not consider internal control over compliance with the functions of billing, collection, processing deferments and due diligence compliance requirements specified by the Perkins Loan program and described in the OMB Circular A-133 Compliance Supplement. Internal control over these compliance requirements was considered by the other auditors referred to above; and our report, insofar as it relates to the University's internal control over those compliance requirements, is based solely upon the report of the other auditors.

A deficiency in internal control over compliance exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct noncompliance with a type of compliance requirement of a federal program on a timely basis. A material weakness in internal control over compliance is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis.

Our consideration and the other auditors' consideration of the internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be deficiencies, significant deficiencies or material weaknesses. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. Also, the report of the other auditors did not identify any deficiencies in internal control over compliance that they consider to be material weaknesses, as defined above.

The University's responses to the findings identified in our audit are described in the accompanying schedule of findings and questioned costs. We did not audit the University's responses and, accordingly, we express no opinion on the responses.

This report is intended solely for the information and use of the University's audit committee, management, federal awarding agencies and pass-through entities and is not intended to be and should not be used by anyone other than these specified parties.

PricewaterhouseCoopers LLP

March 28, 2012

The Trustees of Columbia University in the City of New York
Schedule of Findings and Questioned Costs
For the year ended June 30, 2011

Section I—Summary of Independent Auditors' Results

Financial Statements

Type of independent auditors' report issued: Unqualified

Internal control over financial reporting:
 Material weakness(es) identified? _____ yes X no

Significant deficiencies(s) identified that are not
 considered to be material weaknesses? _____ yes X none
 reported

Noncompliance material to financial statements noted? _____ yes X no

Federal Awards

Internal Control over major programs:
 Material weakness(es) identified? _____ yes X no

Significant deficiencies(s) identified that are not considered
 to be material weaknesses _____ yes X none
 reported

Type of independent auditors' report issued on compliance
 for major programs: Unqualified

Any audit findings disclosed that are required to be
 reported in accordance with Circular A-133 (Section .510(a))? X yes _____ no

Identification of major programs:

<u>CFDA Number(s)</u>	<u>Name of Federal Program or Cluster</u>
Various	Research and Development Cluster
Various	Student Financial Assistance Cluster
11.618	National Institute of Standards and Technology Construction Grant Program
93.067	Global Aids
93.941	HIV Demonstration, Research, Public and Professional Education Projects
98.000	Mother to Child Transmission Plus Program

Dollar threshold used to distinguish between
 Type A and Type B programs: \$3,486,897

Auditee qualified as low-risk auditee? X yes _____ no

The Trustees of Columbia University in the City of New York

Schedule of Findings and Questioned Costs, Continued

For the year ended June 30, 2011

Section II—Financial Statement Findings

None noted.

Section III—Federal Award Findings and Questioned Costs Section

Part A - PricewaterhouseCoopers Findings

2011-1 Title IV Funds

Applies to CFDA No. 84.268 (2011 FDL), 84.063 (2011 Pell), 84.038 (2011 Perkins) and 84.007 (2011 FSEOG) within the Student Financial Aid Cluster

Condition

From a total population of 236 Title IV aid recipients who withdrew in the fiscal year 2011, 60 withdrawals were tested and the following exceptions were noted:

Federal aid recipient

- (1) Eight return of funds were made after the required 45 day period. For seven of the instances noted, the late returns range from 1-91 days late, and in one instance the return was 319 days late.
- (2) In two instances aid was disbursed to a student that was not eligible for aid and the funds were subsequently returned within 45 days of the day of determination. In one instance aid was disbursed to a student that was not eligible and the return of funds was 12 days after the 45 day requirement.

In addition, we noted the Federal Direct Loan Financial and Student Data Reconciliation, which reconciles direct loan activity to the Department of Education records, was not performed on a monthly basis.

The Compliance Office performed a self audit of all students with Title IV aid who withdrew during the year to ensure all were processed appropriately and, where necessary, corrective action was taken. Refer to management's response for further details.

Criteria

In accordance with 34 CFR 668.173 (b), balances on account are required to be refunded within 45 days after the student withdraws from the institution.

In accordance with 34 CFR 668.32, a student must be enrolled as a regular student in an eligible program in order to receive federal student aid.

In accordance with 34 CFR 685.102 (b), 685.301 and 685.303, the Federal Direct Loan Financial and Student Data reconciliation should be performed on a monthly basis.

Cause

The University implemented a new financial aid system that went live in July 2010. As a result of certain technical complexities related to the new system implementation, certain data validation and correction processes included in the reconciliation were not performed timely and thereby, contributed to the late return of Title IV funds. The eligibility exceptions were due to incomplete system edits to confirm eligibility and enrollment prior to disbursing the funds.

Effect

In the instances cited above, the University did not comply with the administrative requirements of this program in that certain students were not eligible to receive aid, student withdrawals were not refunded timely and certain data validation and correction processes included in reconciliation were not completed in a timely manner.

The Trustees of Columbia University in the City of New York

Schedule of Findings and Questioned Costs, Continued

For the year ended June 30, 2011

Recommendation

We recommend that the University continue to enforce policies and procedures in place to ensure that student eligibility requirements are met, student withdrawals are appropriately determined, Title IV funds are returned within the required time frame and reconciliations are performed consistently on a monthly basis.

The University has a Letter of Credit posted under the Department of Education regulation 34 CFR 668.173 (d)(2) and (3) (i). We recommend the University discuss with the Department of Education the Letter of Credit requirements relating to the current year findings in this area.

Management's View and Corrective Action Plan

Management's view and corrective action plan are included within this report.

2011-2 Timely Filing of Quarterly Financial Reports

Applies to CFDA 81.049 (2010 Theoretical High Energy Physics / Proj No: DE-FG02-92ER40699 PR) within the Research and Development Cluster, CFDA 98.000 (2010 Mother to Child Transmission Plus Program / Proj No: GPO-A-003-00001 and Malaria Laboratory Diagnosis and Monitoring / Proj No: 663-A-00-08-0043) and CFDA 11.618 (2010 Ultraclean Geochemistry Laboratory / Proj No: 60NANB10D037)

Condition

The University filed approximately 1,750 financial reports during fiscal year 2011, of which approximately 590 were annual financial reports, 1,100 were ARRA quarterly reports, and 60 (approximately 3%) were for all other periods including non-ARRA quarterly reports. Our testing of the financial reports noted no exceptions on annual financial reports and ARRA quarterly reports, but certain exceptions were noted on non-ARRA quarterly reports as indicated below:

Of the 23 financial reports tested in the Research and Development Cluster we noted that two non-ARRA quarterly financial reports were submitted after the required reporting period with no extension obtained from the Federal awarding agency. These reports were submitted 2 and 5 days late.

Of the 12 financial reports tested within CFDA 98.000 we noted five non-ARRA quarterly financial reports were submitted after the required reporting period. Three of these reports were submitted between 25 and 90 days late. In two instances, the non-ARRA quarterly reports for the quarters ending June 30, 2010 and September 30, 2010 were not submitted; however, a final annual report as of September 30, 2010 was submitted timely and timely quarterly financial accrual reports were submitted in response to sponsor guidance.

Of the 5 financial reports tested within CFDA 11.618 we noted that three of the non-ARRA quarterly financial reports, which were due 10 days after the quarter end, were submitted between 1 and 25 days beyond the required reporting period. We do note, however, that substantially similar information was conveyed via the ARRA quarterly financial reporting obligations under this ARRA funded award and all such reports were timely.

Criteria

OMB Circular A-110 Section .52a (1)(iv) requires recipients to file timely financial status reports as well as final reports. The University was required to file non-ARRA quarterly financial reports in accordance with the terms and conditions of the Notice of Grant Award. Extensions of reporting due dates may be approved by the Federal awarding agency upon request of the recipient.

Cause

Delays in filing the non-ARRA quarterly financial reports are the result of a number of factors, including clerical error in entering the due dates in the financial reporting tool and work volume.

The Trustees of Columbia University in the City of New York

Schedule of Findings and Questioned Costs, Continued

For the year ended June 30, 2011

Effect

The University is not in compliance with the requirement to file non-ARRA quarterly financial reports within the time period prescribed by the federal awarding agency.

Recommendation

We recommend the University continue to enforce policies and procedures currently in place and further enhance monitoring tools and processes to ensure timely quarterly reporting.

Management's View and Corrective Action Plan

Management's view and corrective action plan are included within this report.

2011-3 Identification of Unallowable Cost

Applies to CFDA 47.049 (2010 Nanoscience and Engineering Center / Proj No: CHE-06-41523) within the Research and Development Cluster

Condition

Of the 60 selections tested for Allowable Costs/Cost Principles: Other Direct Costs, one transaction totaling \$8,441 included a \$76 dollar charge related to the purchase of alcohol, which is unallowable.

Criteria

In accordance with OMB Circular A-21, C.2.J section 3, costs of alcoholic beverages are unallowable.

Cause

An invoice relating to an academic conference included an alcohol charge. The charge was one item on a list of conference services purchased and was inadvertently missed in coding and processing the invoice for payment.

Effect

In the instance noted above an unallowable item was charged to the award.

Recommendation

We recommend that the University continue to communicate and enforce policies and procedures in place which include the review of transactions by Departmental Administrators, approval of transactions by Principal Investigators and sampling of payments by Accounts Payable to ensure that all invoices are reviewed in detail to prevent an unallowable cost being charged to a federally sponsored account.

Management's View and Corrective Action Plan

Management's view and corrective action plan are included within this report.

Part B - Other Reports - Findings from Other Auditors:

Service Organization

The University utilizes Affiliated Computer Services, A Xerox Company Education Services (ACS) as its institutional servicer to perform certain compliance requirements related to the Perkins Loan Program. An Independent Auditor's Report on ACS' compliance with those requirements, "Affiliated Computer Services, A Xerox Company Education Services Campus-Based Student Loan Programs Audits of Federal Student Financial Assistance Programs at Participating Institutions and Institutional Servicers Report for the year ended June 30, 2011", includes two findings related to the lack of signature on certain services agreement contracts and a final delinquency demand notice sent beyond the 60 day period requirement, together with ACS Management's responses to these findings.

The Trustees of Columbia University in the City of New York

Schedule of Findings and Questioned Costs, Continued

For the year ended June 30, 2011

Status of Prior Year's Findings

2010-1 Return of Title IV Funds

Condition: Of the 60 student withdrawals tested in the prior year, 5 returns were calculated using an incorrect semester length and one return of funds was made late.

Status – Completed: Registration and Financial Services completed all tasks as stated. Specifically, financial aid staff:

Reviewed each school's Central Processing System profile used to calculate Title IV returns and ensured that the calendar day periods programmed into each profile reflected the appropriate semester lengths that are used to calculate Title IV returns.

Monitored Title IV returns through a centralized reporting tool. In addition, as part of those monitoring efforts, a designated financial aid officer from the University Financial Aid Office communicated with the schools' financial aid offices and the student affairs offices to ensure the University is tracking all student withdrawals and returning funds appropriately.

2010-2 Service Centers and Shared Costs

Condition: 2 service center transactions tested in the prior year included IT costs charged to federal grants which were also reimbursed through the application of the facilities and administrative (indirect) cost rate.

Status-Completed: Research Policy and Indirect Costs completed all tasks as stated. Specifically, staff:

Reviewed each of the instances identified by PwC and removed charges where appropriate.

Revised policy for service centers establishing a procedure where as new or renewal applications are received licensees are provided training and guidance on the mechanics for charging services to users departments.

Developed a report of licensed charges that can be used on a quarterly basis to make sample selections for review and began reviewing with selected service centers on a periodic basis to confirm the allowability and appropriateness of the charges.

2010-3 Out of Period Adjustment

Condition: A credit of \$3,667 related to an employee reimbursement of overpaid wages was incorrectly allocated to one federal grant.

Status – Completed: PeopleSoft Labor Accounting was implemented. The new system requires departments to provide funding information and account numbers at the initial point of hire or when any changes are made to compensation. It also automatically calculates retroactive pay so the situation that led to this condition has been addressed.

In addition, training was conducted. All users of the Labor Accounting system received training and were tested before being granted access to the new system, Sponsored Projects Finance enhanced recurring training sessions to emphasize the need for accurate federal grant accounting, and this topic was incorporated into regularly scheduled forums conducted with Department Administrators responsible for sponsored projects.

To further improve communication with and monitoring by the University community, during Fiscal Year 2012 the payroll calendar was placed online to help publicize critical dates and a payroll suspense report was made available.

COLUMBIA UNIVERSITY

IN THE CITY OF NEW YORK

EXECUTIVE VICE PRESIDENT FOR FINANCE

ANNE SULLIVAN

Management's Response and Corrective Action Plan Regarding OMB Circular A-133 Audit Findings for the Year Ended June 30, 2011

2011-1 Title IV Funds

In the beginning of Fiscal Year 2011, the University Financial Aid Office implemented a new financial aid subsystem, PowerFAIDs, and completed the transition to the Federal Direct Loan Program (as mandated by the HCERA Act of 2010). Through a review in the winter and spring of 2011, management identified certain processing gaps and subsequently completed a number of corrective actions to student data records. By July 15, 2011, the University Financial Aid Office had reviewed and updated incorrect disbursement data and confirmed loan eligibility requirements and the corresponding eligibility documentation. Additional preventive measures were implemented by August 31, 2011 including: (i) the modification of processes and procedures; (ii) the application and enhancement of systematic rules and validation edits in PowerFAIDs to detect and prevent transaction-level non-compliance; (iii) improved monitoring and reporting activities; and (iv) supplemental training.

In FY12, Student Financial Services (which includes the University Financial Aid Office) is: (i) performing monthly Federal Direct Loan Financial and Student Data Reconciliation; (ii) monitoring and conducting self-audits of all student withdrawals to ensure accurate and timely return of Title IV funds; and (iii) enhancing compliance oversight, monitoring, and communication of the withdrawals affecting return of Title IV funds.

In addition, Student Financial Services and the Registrar's Office have launched a major effort to improve school-level compliance and coordination specifically with regard to withdrawals. The project, already underway, includes (i) communication and coordination of project objectives with School and administrative Deans, (ii) formation of a multi-school advisory committee, (iii) withdrawal policy/procedure updates, (iv) issuance of compliance driven guidelines, policies and procedures, (v) development and implementation of standardized: system level withdrawal codes and terminology, withdrawal forms and use of federal calculation tools, and (vi) enhancements to financial monitoring and controls. This additional effort will be completed by May 15, 2012.

University will discuss with the Department of Education the Letter of Credit requirements relating to the current year findings in this area.

2011-2 Timely Filing of Quarterly Financial Reports

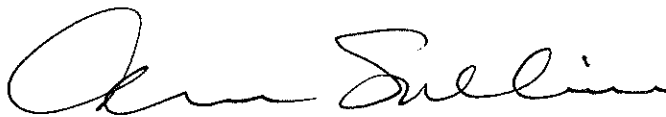
System-based controls exist to help ensure compliance with annual financial and ARRA quarterly reporting obligations, but management agrees these system-based controls do not fully encompass non-ARRA quarterly reporting obligations. Management is implementing a new database during the fourth quarter of FY12 that will enhance controls for capturing due dates for non-standard and non-ARRA quarterly financial reports. Management is also conducting a comprehensive review of awards in this population to confirm the accuracy of due dates contained in the new database.

2011-3 Identification of Unallowable Cost

Management agrees that continued enforcement of policies regarding the allowability of costs is a critical control. A policy is in place that specifically addresses the "segregation of unallowable costs" which sets forth clear guidelines prohibiting certain types of expenditures from being charged to federal awards. Accounts Payable provides training to new and existing staff and faculty, and conducts audits on reimbursement requests to ensure departmental compliance with the policy. Costs that are segregated and coded by the departments as "unallowable" are not

charged to federal awards, and as part of our postaward compliance, Sponsored Project Finance reviews account statements to ensure that expenses coded as "unallowable" are not submitted for reimbursement/drawn down. In this instance, an unallowable charge was not segregated by the department, and the error was not caught by the audit in Accounts Payable. Upon determining this, Sponsored Projects Finance and Accounts Payable have retrained the departmental administrator. The Accounts Payable auditor who missed this error in their review was no longer with the University at the time of this finding. All other audit and review staff within Accounts Payable have been briefed on the issue to heighten awareness and ensure that sufficient knowledge of the correct process for review exists.

Responsible person Contact Name: Carl Sparano, Research Policy & Indirect Costs
Contact Number: (212) 851-1049

A handwritten signature in black ink, appearing to read "Anne Sullivan". The signature is fluid and cursive, with a large initial "A" and a long, sweeping underline.

Anne R. Sullivan
Executive Vice President for Finance
The Trustees of Columbia University in the City of New York