

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, 2009

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, 2009
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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, 2009, 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's summarized comparative information has been derived from the University's June 30, 2008 financial statements, and in our report dated October 10, 2008, 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, in fiscal year 2009, the University adopted Statement of Financial Accounting Standard No. 157 "Fair Value Measurements."

In accordance with *Government Auditing Standards*, we have also issued our report dated October 28, 2009 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, 2009. 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 Summary Schedule of Expenditures of Federal Awards and Supplemental Schedule of Expenditures of Federal Awards are 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 are 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.



New York, New York
October 28, 2009

The Trustees of Columbia University in the City of New York
Consolidated Balance Sheet
At June 30, 2009, with Comparative Totals at June 30, 2008
(in thousands of dollars)

	June 2009	June 2008
Assets		
Cash and cash equivalents	\$261,976	\$282,713
Accounts receivable, net:		
Government agencies	102,224	135,117
Patient receivables	74,563	76,905
Other	182,132	168,210
Investment income receivable, net	2,188	2,479
Receivable for securities sold	147,665	309,343
Cash and securities held in trust by others	83,677	164,683
Pledges receivable, net	290,243	258,938
Student loans receivable, net	89,268	89,556
Collateral for securities loaned	11,876	70,946
Investments, at fair value	5,741,785	7,105,929
Institutional real estate	765,282	682,070
Land, buildings, and equipment, net	2,411,136	2,108,139
Other assets	70,808	59,882
Net assets held by CPMC Fund, Inc.	75,125	127,814
Interest in perpetual trusts held by others	129,818	157,583
Total assets	\$10,439,766	\$11,800,307
Liabilities		
Accounts payable and accrued expenses	\$498,594	\$494,202
Liabilities for securities purchased	18,759	8,544
Securities loan agreement payable	11,876	70,946
Prepaid tuition and other deferred credits	58,934	46,965
Deferred revenue and unamortized bond premium	66,257	71,046
Refundable advances	101,161	88,584
Capital lease obligations	118,962	83,097
Conditional asset retirement obligations	98,791	93,881
Accrued employee benefit liabilities	220,558	164,857
Federal student loan funds	76,782	75,465
Actuarial liability for split-interest agreements	43,111	35,331
Bonds and notes payable	1,396,407	1,398,258
Total liabilities	2,710,192	2,631,176
Net assets		
Unrestricted	5,102,757	6,496,155
Temporarily restricted	711,372	854,310
Permanently restricted	1,915,445	1,818,666
Total net assets	7,729,574	9,169,131
Total liabilities and net assets	\$10,439,766	\$11,800,307

See accompanying notes to consolidated financial statements.

The Trustees of Columbia University in the City of New York
Consolidated Statement of Activities
For the Year Ended June 30, 2009, with Comparative Totals at June 30, 2008
(in thousands of dollars)

	Unrestricted	Temporarily Restricted	Permanently Restricted	June 2009	June 2008
Operating activities					
Revenues and support					
Tuition and fees	\$840,647			\$840,647	\$775,912
Less financial aid grants	<u>(237,918)</u>			<u>(237,918)</u>	<u>(207,479)</u>
Net tuition and fees	602,729			602,729	568,433
Government grants and contracts:					
Direct	547,902			547,902	507,035
Indirect	166,479			166,479	160,221
Private gifts, grants and contracts:					
Direct	271,689	\$73,841		345,530	391,222
Indirect	7,257			7,257	10,746
Revenue from other educational and research activities	246,911			246,911	184,123
Patient care revenue	747,927			747,927	705,938
Investment income and gains utilized	424,082	3,904		427,986	379,957
Sales and services of auxiliary enterprises	111,934			111,934	109,320
State aid	3,207			3,207	3,263
Other sources	13,925			13,925	13,744
Net assets released from restrictions	65,417	(65,417)			
Total operating revenues and support	3,209,459	12,328		3,221,787	3,034,002
Expenses					
Instruction and educational administration	1,136,588			1,136,588	1,074,157
Research	432,538			432,538	398,910
Patient care expense	674,656			674,656	648,893
Library	61,098			61,098	61,020
Operation and maintenance of plant	177,375			177,375	157,636
Institutional support	204,520			204,520	208,685
Auxiliary enterprises	97,453			97,453	97,461
Depreciation expense	160,870			160,870	153,991
Interest expense	63,618			63,618	50,313
Other	52,565			52,565	43,743
Total expenses	3,061,281			3,061,281	2,894,809
Change in net assets from operating activities	148,178	12,328		160,506	139,193
Nonoperating activities					
Endowment gifts			\$124,470	124,470	130,131
Current year realized and unrealized capital gains (losses)	(1,151,642)	(126,360)	175	(1,277,827)	19,763
Endowment appreciation utilized	(324,095)	(33,594)		(357,689)	(252,109)
Change in net assets held by CPMC Fund, Inc.	(47,735)		(4,954)	(52,689)	(2,935)
Change in funds held by others in perpetuity			(27,765)	(27,765)	9,409
Present value adjustment to split-interest agreements	(484)	4,688	(17)	4,187	(7,665)
Changes in pension and post retirement obligations	(42,148)			(42,148)	(20,099)
Other	24,528		4,870	29,398	
Change in net assets from nonoperating activities	(1,541,576)	(155,266)	96,779	(1,600,063)	(123,505)
Change in net assets	(1,393,398)	(142,938)	96,779	(1,439,557)	15,688
Net assets at beginning of year	6,496,155	854,310	1,818,666	9,169,131	9,153,443
Net assets at end of period	\$5,102,757	\$711,372	\$1,915,445	\$7,729,574	\$9,169,131

See accompanying notes to consolidated financial statements.

The Trustees of Columbia University in the City of New York
Consolidated Statement of Cash Flows
For the Year Ended June 30, 2009, with Comparative Totals at June 30, 2008
(in thousands of dollars)

	June 2009	June 2008
Cash flows from operating activities		
(Includes adjustments to reconcile change in net assets to net cash provided by operating activities):		
Change in net assets	(\$1,439,557)	\$15,688
Depreciation expense	160,870	153,991
Interest on capital lease obligations and CARO	10,674	9,421
Institutional real estate depreciation	16,432	15,632
Realized and unrealized (gains) losses	1,277,827	(19,763)
Partnership distributions	157,083	448,496
Contributions restricted for permanent investment, plant, and split-interest agreements	(121,707)	(136,504)
Contributions other than cash	(36,000)	(96,616)
Present value adjustments to split-interest agreements	9,170	7,577
Accreted interest on bonds	2,413	2,445
Change in fair value of net assets held by CPMC Fund, Inc.	23,291	2,935
Change in fair value of interest in perpetual trusts held by others	27,765	(9,409)
Change in operating assets and liabilities:		
Accounts receivable, net	21,313	(84,751)
Investment income receivable, net	291	1,261
Pledges receivable, net	(31,305)	(20,154)
Other assets	(10,926)	6,438
Accounts payable and accrued expenses	(38,315)	85,037
Prepaid tuition and other deferred credits	11,969	(751)
Deferred revenue and unamortized bond premium	(4,789)	10,232
Refundable advances	12,577	11,441
Accrued employee benefit liabilities	55,701	14,597
Net cash provided by operating activities	104,777	417,243
Cash flows from investing activities		
Proceeds from sales of investments	7,158,080	2,399,678
Purchases of investments	(6,991,555)	(2,747,912)
Collections from student notes	8,366	9,224
Student notes issued	(8,078)	(15,906)
Investment in cash and securities held in trust by others	81,006	(126,777)
Purchases of institutional real estate	(101,543)	(44,694)
Purchases of plant and equipment	(380,026)	(327,344)
Net cash used by investing activities	(233,750)	(853,731)
Cash flows from financing activities		
Proceeds from contributions for:		
Investment in endowment	77,297	92,200
Investment in plant	15,509	28,352
Investment in split-interest agreements	28,901	15,952
Investment income on split-interest agreements	2,807	2,508
Payments on split-interest agreements	(4,197)	(3,741)
Payments on capital lease obligations	(9,134)	(8,996)
Repayment of bonds and notes payable	(393,924)	(148,143)
Proceeds from bond issuance	389,660	330,985
Net change in federal student loan funds	1,317	5,024
Net cash (used) provided by financing activities	108,236	314,141
Net change in cash and cash equivalents	(20,737)	(122,347)
Cash and cash equivalents at beginning of year	282,713	405,060
Cash and cash equivalents at end of year	\$261,976	\$282,713
Supplemental disclosure of cash flow information:		
Equipment and space acquired through capital leases	\$35,816	\$3,938
Cash paid during the year for interest	\$73,483	\$53,425

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, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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 25,500 full-time and part-time students and employs approximately 14,500 full-time employees, including 5,243 full-time faculty members and research staff. Of these, 1,132 hold positions in the arts and sciences; 3,147 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 the health care field. Sponsored research, faculty patient care services, tuition, endowment income, patent royalties, and gifts provide the bulk of CUMC’s revenues. Approximately 3,377 students are enrolled at CUMC, with a full-time faculty of 2,180, of whom approximately 314 are tenured. Additionally, CUMC’s staff includes 3,417 part-time faculty instructors, 967 full-time researcher staff members, 1,146 part-time researchers, and 309 post doctoral research trainees. Approximately 63 percent of the full-time faculty and 48 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, Harlem Hospital, and St. Luke’s–Roosevelt Hospital Center. In addition, certain faculty physicians provide patient care and supervision of residents at NYPH network hospitals and other affiliates. Through interinstitutional “medical service agreements,” CUMC faculty also provide patient care in specialty and subspecialty areas at hospitals in the tristate area and occasionally in other parts of the country.

In fiscal 2009, the clinical faculty handled approximately 1.9 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 63,900 NYPH hospital admissions during the year.

The Trustees of Columbia University in the City of New York
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(All amounts are in thousands of dollars, unless otherwise noted.)

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 (65 percent), Medicare (14 percent), commercial insurance (6 percent), Medicaid (2 percent), and other (2 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 (“CIMC”) 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, as such, consolidates these entities into the University’s consolidated financial statements.

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.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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") and, as such, with the provisions of Statement of Financial Accounting Standards No. 117 ("SFAS No. 117"), *Financial Statements of Not-for-Profit Organizations*. SFAS No. 117 requires that 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, amounts subject to time restrictions such as funds pledged for future payment, or amounts subject to legal restrictions such as portions of otherwise unrestricted capital appreciation, which must be reported as temporarily restricted in accordance with New York State law. Once restrictions are satisfied, or have been deemed to have been satisfied, those temporarily restricted net assets are released from restrictions, except for temporarily restricted revenue earned and expended in the same fiscal year, which is recorded as unrestricted revenue.

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 and invest the original contribution in perpetuity but permit the use of some or all investment earnings for operating or other purposes.

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.

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 during the academic year.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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.

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, 2011.

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 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.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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, 2009. Alternative investments include investments in absolute return strategy funds, private equity funds, and real asset funds. The management of the respective fund provides the fair value of the investment. The University reflects its share of the partnerships or corporations (collectively, the 'funds') in the consolidated financial statements.

The University believes that the net asset value of its alternative investments is a reasonable estimate of fair value as of June 30, 2009. 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 addition, the University is the beneficiary of certain agreements where the underlying asset is real property and the University has reported its interest based on an appraised value of the property.

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 net of 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."

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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 equity 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 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 establishment 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.

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, as adopted on June 30, 2006, under Financial Accounting Standards Board ("FASB") Interpretation No. 47 ("FIN 47"), *Accounting for Conditional Asset Retirement Obligations* (an interpretation of FASB Statement No. 143), 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.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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, actuarially determined costs associated with split-interest agreements, pension, postemployment and postretirement benefits, contractual allowances for patient receivables, and allowances for doubtful accounts.

2008 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 2008. 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, 2008. In addition, certain amounts in the summarized consolidated financial statements for fiscal year 2008 have been reclassified to conform to the fiscal year 2009 presentation.

In fiscal year 2009, the University changed its presentation and reflected its July 1, 2009 payment to bond holders on its DASNY tax exempt debt as a reduction in "Cash and securities held in trust by others" (\$56,581), "Accounts payable and accrued expenses" (\$20,111), and "Bonds and notes payable" (\$36,470) at June 30, 2009. As of June 30, 2009, payments were made to the Bond Trustee and the bonds were legally defeased. The June 30, 2008 amounts were reclassified for comparability. This reclassification had no impact on net assets or cash and cash equivalents as previously reported at June 30, 2008.

New Authoritative Pronouncements

Effective for the fiscal year beginning July 1, 2008, the University adopted Statement of Financial Accounting Standards No. 157, "Fair Value Measurements" ("SFAS 157"). SFAS 157 defines fair value, establishes a framework for measuring fair value under generally accepted accounting principles and enhances disclosures about fair value measurements. Fair value is defined under SFAS 157 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.

SFAS 157 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 and unobservable inputs reflect the entities own assumptions about how market participants would value an asset or liability based on the best information available. Valuation techniques used to measure fair value under SFAS 157 utilize relevant observable inputs and minimize the use of unobservable inputs. The standard describes a fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value.

The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used by the University for financial instruments measured at fair value on a recurring basis. A financial instrument's categorization within the valuation hierarchy is based

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upon the lowest level of input that is significant to the fair value measurement. The three levels of inputs are as follows:

- Level 1 - Quoted prices in active markets for identical assets or liabilities.
- Level 2 - Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the same term of the assets or liabilities.
- Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The provisions of SFAS No. 159, “The Fair Value Option for Financial Assets and Financial Liabilities” (SFAS 159) were effective July 1, 2008. SFAS No. 159 gives entities the option, at specific election dates, to measure certain financial assets and liabilities at fair value. The election may be applied to financial assets and liabilities on an instrument by instrument basis, is irrevocable, and may only be applied to entire instruments. Unrealized gains and losses on instruments for which the fair value option has been elected are reported in earnings at each subsequent reporting date. The University did not elect fair value accounting for any assets or liabilities that are not currently required to be measured at fair value.

Effective for the year ended June 30, 2009, the University adopted FASB Staff Position FAS 117-1, “Endowments of Not-for-Profit Organizations: Net Asset Classification of Funds Subject to an Enacted Version of the Uniform Prudent Management of Institutional Funds Act” (“UPMIFA”), and enhanced disclosures for all endowment funds. Even though New York State has not adopted UPMIFA, this FSP requires additional disclosure of net assets associated with donor-restricted endowment funds held by organizations that are not subject to an enacted version of UPMIFA.

A number of recent pronouncements will be adopted in the future in accordance with FASB guidelines on the timing of adoption and are not reflected in the fiscal year 2009 statements. Management is currently assessing the impact of the following pronouncements:

In March 2008, the FASB issued SFAS No. 161, “Disclosures about Derivative Instruments and Hedging Activities” (“SFAS 161”). SFAS 161 changes the disclosure requirements for derivative instruments and hedging activities and is effective for financial statements issued for fiscal years beginning after November 15, 2008.

In June 2009, the FASB issued SFAS No. 168, “The FASB Accounting Standards CodificationTM and the Hierarchy of Generally Accepted Accounting Principles” (“SFAS 168”). The objective of this Statement is to establish the FASB Accounting Standards CodificationTM as the source of authoritative accounting principles recognized by the FASB to be applied by nongovernmental entities in the preparation of financial statements in conformity with GAAP and is effective for financial statements issued for fiscal years ending after September 15, 2009.

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

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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, and changes in pension and postretirement obligations.

5. Patient Care Revenue

The University's affiliation agreements with tristate area hospitals generated \$243,034 and \$232,278 of revenue for the years ended June 30, 2009 and 2008, respectively. As of June 30, 2009 and 2008, accounts receivable includes \$72,840 and \$64,100, 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 \$474,884 and \$447,532 for the years ended June 30, 2009 and 2008, respectively. As of June 30, 2009 and 2008, patient accounts receivable amounts to \$74,563 and \$76,905, respectively.

Other areas of patient care, such as medical service agreements, generated \$17,986 and \$13,463 of revenue for the years ended June 30, 2009 and 2008, respectively.

6. Long-Term Investments and Fair Value

The following table presents assets and liabilities at fair value at June 30, 2009, by the SFAS 157 valuation hierarchy, with comparative June 30, 2008 totals.

Assets	2009				2008
	Level 1	Level 2	Level 3	Total	Total
Investments:					
Cash and cash equivalents	\$ 4,537	\$ 271,115		\$ 275,652	\$ 211,102
Global equities	709,537	9,475	\$ 447,771	1,166,783	1,615,712
Fixed income	433	31,007	247,778	279,218	375,299
Absolute return strategies		225,688	1,447,387	1,673,075	1,956,607
Private equity	8,109		1,419,429	1,427,538	1,892,453
Real assets			919,519	919,519	1,054,756
Investments, at fair value	<u>722,616</u>	<u>537,285</u>	<u>4,481,884</u>	<u>5,741,785</u>	<u>7,105,929</u>
Swaps receivable					1,260
Interest in perpetual trusts held by others			129,818	129,818	157,583
Total assets at fair value	<u>\$ 722,616</u>	<u>\$ 537,285</u>	<u>\$ 4,611,702</u>	<u>\$ 5,871,603</u>	<u>\$ 7,264,772</u>
Liabilities					
Swaps payable		38,918		38,918	15,669
Total liabilities at fair value		<u>\$ 38,918</u>		<u>\$ 38,918</u>	<u>\$ 15,669</u>

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The following is a description of the University's valuation methodologies for investments measured at fair value.

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, and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Inputs are obtained from various sources including market participants, dealers, and brokers.

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

Investments included in Level 3 primarily consists of the University's ownership in alternative investments (interests in absolute return strategy, private equity funds, and real asset funds) and fund investments in equity and fixed income strategies. The value of certain alternative investments represents the ownership interest in the net asset value (NAV) of the respective fund. The fair values of the investments held by funds that do not have readily determinable fair values are determined by the investment manager and are based on appraisals or other estimates that require varying degrees of judgment. 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 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, 2009.

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.

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.

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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.

	June 30, 2008	Transfers In/Out	Purchases & Sales, net	Realized gain/loss	Unrealized gain/loss	June 30, 2009
Global equities	\$ 681,011	\$ 59	\$ (209,533)	\$ (13,773)	\$ (9,993)	\$ 447,771
Fixed income	325,699		(66,086)	18,939	(30,774)	247,778
Absolute return strategies	1,959,663	1,281	(295,683)	67,927	(285,801)	1,447,387
Private equity	1,761,276		22,668	24,088	(388,603)	1,419,429
Real assets	1,123,847		118,643	23,746	(346,717)	919,519
Total level 3 investments	<u>\$ 5,851,496</u>	<u>\$ 1,340</u>	<u>\$ (429,991)</u>	<u>\$ 120,927</u>	<u>\$ (1,061,888)</u>	<u>\$ 4,481,884</u>

	June 30, 2008	Disburse- ments	Unrealized gain/loss, net	June 30, 2009
Interest in perpetual trusts held by others	\$ 157,583	\$ (5,567)	\$ (22,198)	\$ 129,818

All net realized and unrealized gains/(losses) in the table 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, 2009.

Global Equities and Fixed Income

Global equities and fixed income consists of investments in publicly traded U.S. and foreign 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 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. Some of these funds may not have readily ascertainable market values and may be subject to withdrawal restrictions. The fair value represents the amount the University expects to receive at June 30, 2009 and 2008, if it had liquidated its investments in the funds on these dates.

Alternative Investments

Alternative investments include interests in absolute return strategy funds, private equity funds, and real asset funds. The University values these investments in accordance with valuations provided by the investment managers of the underlying funds. As a general rule, investment managers of private equity and real asset funds value investments based upon the best information available for a given circumstance and may incorporate assumptions that are the investment management's best estimates after consideration of a variety of internal and external factors. Private equity and real asset 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. Investments for which observable market prices do not exist are reported at fair value as determined by the fund's investment manager. The University's management may consider other factors in assessing the fair value of these investments. Some of these funds may not have readily ascertainable market values and may be subject to withdrawal restrictions. The fair value of the funds represents the amount the University expects to receive at June 30, 2009 and 2008, if it had liquidated its investments in the funds on these dates.

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The University invests in alternative investments that are not registered under the Investment Company Act of 1940, as amended, and invests in other financial instruments employing various investment strategies and techniques, including leverage that may involve significant market, credit, and operational risks. 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.

The University is obligated under certain investment fund agreements to advance additional funding up to specified levels over a period of years. These commitments have fixed expiration dates and other termination clauses. At June 30, 2009, the University had unfunded commitments of approximately \$1.2 billion.

Cash Held for Reinvestment

Cash and cash equivalents included in the portfolio consist primarily of liquid short-term instruments held by the investment pool with maturities of three months or less at the date of purchase.

Off Balance Sheet Risks

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 described in the level 2 description above. The equity derivatives held directly by the University within the endowment portfolio had a fair value of (\$2.2) million and \$1.3 million at June 30, 2009 and 2008, respectively, and are included in "Swaps receivable" and "Swaps payable" on the first table in this footnote. Outside of the endowment portfolio, the University entered a fixed payor interest rate swap as described in Footnote 16. The estimated fair value of the agreement was (\$36.7) million and (\$15.7) million at June 30, 2009 and 2008, respectively, and is included in "Swaps payable" on the first table in this footnote. The derivatives are reflected as a receivable or payable, as appropriate, on the Consolidated Balance Sheet.

Securities Lending

At June 30, 2009 and 2008, investment securities having a fair value of \$11.4 million and \$67.2 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 \$11.9 million and \$70.9 million and an offsetting liability for the return of the collateral on the Consolidated Balance Sheet at June 30, 2009 and 2008, 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 \$357.7 million and \$252.1 million during 2009 and 2008, 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.

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7. Endowment Funds

The University's endowment consists of approximately 4,200 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

In accordance with New York State law (which incorporates UMIFA), the University is required to preserve the fair value of the original gift as of the gift date of the donor-restricted endowment funds absent explicit donor stipulations to the contrary. As a result, so long as there is no explicit donor stipulation to the contrary, 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.

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The composition and changes in the University's endowment net assets as of June 30, 2009 and 2008, are as follows:

	2009			Total
	Unrestricted Net Assets	Temporarily Restricted Net Assets	Permanently Restricted Net Assets	
Changes in University endowment net assets				
Opening balance - June 30, 2008	\$ 5,035,010	\$ 641,838	\$ 1,668,378	\$ 7,345,226
Investment return:				
Investment income	29,476	514	5,567	35,557
Net appreciation	(1,054,607)	(118,724)	(27,765)	(1,201,096)
Total investment return	(1,025,131)	(118,210)	(22,198)	(1,165,539)
New gifts	17,194	1,138	95,106	113,438
Appropriation for expenditure	(431,426)	(9,818)	(5,567)	(446,811)
Other Changes:				
Transfers to create endowments	26,233	5,361	-	31,594
Other / Reclassifications	11,013	4,456	(579)	14,890
Release from restriction	33,594	(33,594)	-	-
	<u>70,840</u>	<u>(23,777)</u>	<u>(579)</u>	<u>46,484</u>
Closing balance - June 30, 2009	<u>\$ 3,666,487</u>	<u>\$ 491,171</u>	<u>\$ 1,735,140</u>	<u>\$ 5,892,798</u>
University endowment composition				
Endowment funds	\$ (34,010)		\$ 1,578,158	\$ 1,544,148
Funds functioning as endowment:				
Departmental funds	2,319,190	\$ 491,171		2,810,361
University funds	993,261			993,261
Institutional real estate, net	340,085			340,085
CPMC Fund, Inc.	47,961	-	27,164	75,125
Interests in perpetual trusts held by others			129,818	129,818
University's endowment value	<u>\$ 3,666,487</u>	<u>\$ 491,171</u>	<u>\$ 1,735,140</u>	<u>\$ 5,892,798</u>

Note: The tables above do not include split-interest agreements, net of \$93,382 and pledges receivable, net of \$153,361.

Reconciliation to Investments, at fair value

Investments, at fair value		\$ 5,741,785
Add:		
Interests in perpetual trusts held by others	129,818	
CPMC Fund, Inc.	75,125	
Institutional real estate, net	340,085	
Investment receivables and payables	<u>128,916</u>	673,944
Subtract:		
Other long-term investments	(380,219)	
Split-interest agreements, net	<u>(142,712)</u>	(522,931)
University's endowment value		<u>\$ 5,892,798</u>

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	2008			Total
	Unrestricted Net Assets	Temporarily Restricted Net Assets	Permanently Restricted Net Assets	
Changes in University endowment net assets				
Opening balance - June 30, 2007	\$ 5,226,150	\$ 637,680	\$ 1,537,579	\$ 7,401,409
Investment return:				
Investment income	76,322	681	6,326	83,329
Net appreciation	12,764	27,370	(10,363)	29,771
Total investment return	89,086	28,051	(4,037)	113,100
New gifts	14,610	688	141,162	156,460
Appropriation for expenditure	(362,877)	(3,017)	(6,326)	(372,220)
Other Changes:				
Transfers to create endowments	35,187	3,067	-	38,254
Other / Reclassifications	7,709	514	-	8,223
Release from restriction	25,145	(25,145)	-	-
	68,041	(21,564)	-	46,477
Closing balance - June 30, 2008	\$ 5,035,010	\$ 641,838	\$ 1,668,378	\$ 7,345,226
University endowment composition				
Endowment funds	\$ (1,418)		\$ 1,478,677	\$ 1,477,259
Funds functioning as endowment:				
Departmental funds	3,333,819	\$ 641,838		3,975,657
University funds	1,276,915			1,276,915
Institutional real estate, net	329,998			329,998
CPMC Fund, Inc.	95,696		32,118	127,814
Interests in perpetual trusts held by others			157,583	157,583
University's endowment value	\$ 5,035,010	\$ 641,838	\$ 1,668,378	\$ 7,345,226

Note: The tables above do not include split-interest agreements, net of \$86,977 and pledges receivable of \$127,020.

Reconciliation to Investments, at fair value

Investments, at fair value		\$ 7,105,929
Add:		
Interests in perpetual trusts held by others	157,583	
CPMC Fund, Inc.	127,814	
Institutional real estate, net	329,998	
Investment receivables and payables	309,677	925,072
Subtract:		
Other long-term investments	(562,716)	
Split-interest agreements, net	(123,059)	(685,775)
University's endowment value		\$ 7,345,226

Funds with Deficiencies

From time to time, the fair value of assets associated with individual donor restricted endowment funds may fall below the level that the donor requires the University to retain as a fund of perpetual duration. These deficiencies resulted from unfavorable market fluctuations that occurred after the investment of new permanently restricted contributions and continued appropriation for certain

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programs per the University's spending policy. The difference is noted in the table above as the unrestricted component of endowment funds.

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 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.

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 will 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.

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

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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 an increase in annual spending ranging from 0.30 percent to 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. This incremental payout component is authorized through 2013.

8. Accounts Receivable

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

	2009	2008
Patient receivables, net of contractual allowances	\$ 138,396	\$ 237,718
Government agencies	106,323	139,038
NewYork-Presbyterian Hospital	70,003	62,316
Patent and licensing	17,559	19,342
Student receivables	25,063	23,358
Other receivables, gross	78,700	71,798
	<u>436,044</u>	<u>553,570</u>
Less: Allowance for doubtful accounts	(77,125)	(173,338)
Accounts receivable, net	<u>\$ 358,919</u>	<u>\$ 380,232</u>

Patient receivables for medical services are net of an allowance for contractual reserves in the amount of \$125.7 million and \$133.5 million at June 30, 2009 and 2008, 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:

	2009	2008
Government revolving loans	\$ 72,517	\$ 74,150
Institutional loans	20,255	19,136
Gross student loans	<u>92,772</u>	<u>93,286</u>
Less: Allowance for doubtful collections	(3,504)	(3,730)
Student loans receivable, net	<u>\$ 89,268</u>	<u>\$ 89,556</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 federal loan funds related to these programs. The amount of loans issued under these programs was \$234.7 million and \$220.9 million for the years ended June 30, 2009 and 2008, 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

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totaled \$63.7 million and \$62.5 million as of June 30, 2009 and 2008, 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.

Loans receivable under federally guaranteed student loan programs are subject to significant restrictions. Accordingly, it is not practicable to determine the fair value of such amounts.

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.

	2009			2008		
	University	External	Total	University	External	Total
	Sources	Sources	Financial Aid	Sources	Sources	Financial Aid
Undergraduate	\$ 55,233	\$ 39,485	\$ 94,718	\$ 46,006	\$ 30,297	\$ 76,303
Graduate	89,324	53,876	143,200	86,144	45,032	131,176
Total financial aid grants	\$ 144,557	\$ 93,361	\$ 237,918	\$ 132,150	\$ 75,329	\$ 207,479

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 \$10.2 million and \$9.7 million, and disbursements were \$10.2 million and \$9.7 million in fiscal year 2009 and 2008, 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.

The June 30 balances of unconditional promises to give are:

	2009	2008
Less than one year	\$ 104,641	\$ 98,429
One to five years	220,754	183,738
More than five years	12,046	28,921
Total unconditional promises	337,441	311,088
Less: Allowance for doubtful contributions	(13,784)	(15,554)
Less: Net present-value discount	(33,414)	(36,596)
Net pledges receivable	\$ 290,243	\$ 258,938

New pledges recorded in 2009 were discounted at an average annual rate of 3.9 percent using a rate that considers market and credit risk. New pledges recorded in 2008 were discounted at an average annual rate of 4.0 percent using a risk free rate. Credit risk is also considered in the allowance for doubtful contributions.

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Pledges receivable are intended for the following purposes:

	2009	2008
Endowment for educational and general purposes	\$ 153,361	\$ 127,020
New construction and modernization of plant	34,798	44,587
Support of University operations	102,084	87,331
Net pledges receivable	<u>\$ 290,243</u>	<u>\$ 258,938</u>

The University also has other outstanding pledges of \$617.4 million as of June 30, 2009. 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:

	2009			2008		
	Total Assets	Accumulated Depreciation	Net Assets	Total Assets	Accumulated Depreciation	Net Assets
Land	\$ 302,898		\$ 302,898	\$ 228,577		\$ 228,577
Building and building improvements	3,348,024	\$ 1,369,903	1,978,121	3,003,394	\$ 1,250,597	1,752,797
Equipment	273,903	143,786	130,117	275,246	148,481	126,765
	<u>\$ 3,924,825</u>	<u>\$ 1,513,689</u>	<u>\$ 2,411,136</u>	<u>\$ 3,507,217</u>	<u>\$ 1,399,078</u>	<u>\$ 2,108,139</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.

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, 2009 and 2008, were \$96 million and \$67 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

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2009 and 2008, the University recognized actuarially computed liabilities of \$29.6 million and \$30.7 million, respectively.

13. Pension and Other Postretirement Benefit Costs

Pension Plan Benefits

Retirement benefits are provided for full-time faculty and officers under a noncontributory defined contribution plan. Contributions are determined as a percentage of each covered employee's salary, factoring in the age and accrued service of each employee. Charges to expenditures under this plan amounted to \$86.2 million and \$82.8 million for the years ended June 30, 2009 and 2008, respectively.

The University has four noncontributory pension plans (the "pension plans") for supporting staff employees. Two of these pension plans are defined benefit plans for both past and future service. The other two 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 the two latter pension plans, future benefits are provided by a defined contribution plan. All four of these pension plans are subject to collective bargaining agreements. Charges to expenditures under the pension plans amounted to \$4.7 million and \$4.3 million for the years ended June 30, 2009 and 2008, respectively. The University also maintains a fifth pension plan for employees of the Arden Conference Center, which closed in 2005.

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 FAS 158, *Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans*, 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, FAS 158 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.

Amounts recognized in unrestricted net assets are as follows:

	Pension Plan Benefits		Other Postretirement Benefits	
	2009	2008	2009	2008
Net actuarial loss	\$ 36,950	\$ 19,078	\$ 81,396	\$ 37,170
Prior service cost	1,041	1,134	(8,760)	1,118
Transition obligation				10,285
Total amount recognized	<u>\$ 37,991</u>	<u>\$ 20,212</u>	<u>\$ 72,636</u>	<u>\$ 48,573</u>

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

	Pension Plan Benefits		Other Postretirement Benefits	
	2009	2008	2009	2008
Change in benefit obligation:				
Benefit obligation, beginning of year	\$ 90,842	\$ 88,819	\$ 169,226	\$ 166,701
Service cost	2,827	2,880	5,492	5,832
Interest cost	6,217	5,787	11,178	10,804
Plan participants' Contributions			3,003	
Actuarial (gain) loss	(653)	(2,917)	15,505	(2,262)
Plan amendments		962	(20,469)	
Assumption Changes	(27)			
Net disbursements and transfers	(4,663)	(4,689)	(12,128)	(11,849)
Benefit obligation, end of year	<u>\$ 94,543</u>	<u>\$ 90,842</u>	<u>\$ 171,807</u>	<u>\$ 169,226</u>
Change in plan assets:				
Fair value of assets, beginning of year	\$ 82,973	\$ 85,095	\$ 112,160	\$ 121,449
Actual return on plan assets	(12,236)	(3,433)	(24,655)	(7,885)
Employer contributions	1,770	6,000		11,128
Plan participants' contributions			4,760	
Net disbursements and transfers	(4,663)	(4,689)	(13,469)	(12,532)
Fair value of assets, end of year	<u>\$ 67,844</u>	<u>\$ 82,973</u>	<u>\$ 78,796</u>	<u>\$ 112,160</u>
Net amount recognized	\$ (26,699)	\$ (7,869)	\$ (93,011)	\$ (57,066)

	2009	2008
Weighted-average assumptions used to determine end of year benefit obligation		
Discount rate	6% to 6.55%	6% to 6.8%
Rate of compensation increase	3.5% to 4.25%	5% to 5.5%

The accumulated benefit obligations for the pension plans at June 30, 2009 and 2008 were \$84.6 million and \$78.6 million, respectively.

At the end of 2009, the projected benefit obligation and accumulated benefit obligation exceeded pension plan assets for four of the five plans. At the end of 2008, the projected benefit obligation exceeded pension plan assets for two of the five plans, and the accumulated benefit obligation exceeded pension plan assets for one of the five plans.

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

	2009	2008
End of year		
Projected benefit obligation	\$ 82,230	\$ 76,662
Fair value of plan assets	55,014	63,635

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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:

	2009	2008
End of year		
Accumulated postretirement benefit obligation	\$ 171,807	\$ 169,226
Fair value of plan assets	78,796	112,160

An 8.0 percent annual rate of increase in the per capita cost of covered health care benefits for the other postretirement benefit plan was assumed for 2010. The rate was assumed to decrease gradually to 5 percent for 2015 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:

	1-%-point increase	1-%-point decrease
Effect on accumulated postretirement benefit obligation	\$ 13,437	\$ (11,529)

The asset allocation for the two defined benefit plans for both past and future service at June 30, 2009 and 2008, and the target allocation for 2010, by asset category, follows:

	Target allocation 2010	Percentage of plan assets at year's end 2009	2008
Asset category			
U.S. large cap equity	20%	20%	50%
International equities	15%	15%	10%
High yield fixed income securities	15%	15%	0%
U.S. core fixed income	50%	50%	40%
	<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, 2009 and 2008, and the target allocation for 2010, by asset category, follows:

	Target allocation 2010	Percentage of plan assets at year's end 2009	2008
Asset category			
U.S. large cap equity	10%	10%	50%
International equities	5%	5%	10%
High yield fixed income securities	5%	5%	0%
U.S. core fixed income	80%	80%	40%
	<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, 22 percent, and debt securities, 78 percent.

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The asset allocation for the other postretirement benefit plan at June 30, 2009 and 2008, and the target allocation for 2010, by asset category, follows:

Asset category	Target allocation	Percentage of plan assets at year's end	
	2010	2009	2008
U.S. large cap equity	59%	59%	45%
U.S. small cap equity	0%	0%	14%
International equity	16%	16%	16%
U.S. fixed income	25%	25%	20%
Real estate	0%	0%	5%
	<u>100%</u>	<u>100%</u>	<u>100%</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	
	2009	2008	2009	2008
Components of net periodic benefit cost				
Service cost	\$ 2,827	\$ 2,886	\$ 5,492	\$ 5,832
Interest cost on projected benefit obligation	6,217	5,787	11,178	10,804
Expected return on assets	(7,038)	(6,410)	(7,251)	(9,792)
Amortization of transition obligation	-	-	686	2,057
Amortization of prior service cost	93	28	(993)	661
Amortization of unrecognized net losses	503	821	3,292	1,028
Net periodic benefit cost	<u>2,602</u>	<u>3,112</u>	<u>12,404</u>	<u>10,590</u>
Other changes in plan assets and benefit obligations recognized in the Consolidated Statement of Activities				
Current year actuarial (gain)/loss	18,703	6,959	47,518	16,778
Amortization of actuarial gain/(loss)	(503)	(821)	(3,292)	(1,029)
Current year prior service (credit)/cost	-	962	(20,469)	-
Amortization of prior service credit/(cost)	(93)	(28)	993	(661)
Amortization of transition asset/(obligation)	-	-	(686)	(2,057)
Total recognized in nonoperating	<u>18,107</u>	<u>7,072</u>	<u>24,064</u>	<u>13,031</u>
Total recognized in net periodic benefit cost and nonoperating	<u>\$ 20,709</u>	<u>\$ 10,184</u>	<u>\$ 36,468</u>	<u>\$ 23,621</u>

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	Pension Plan Benefits	Other Postretirement Benefits
Amounts in net unrestricted assets expected to be recognized in net periodic pension cost in fiscal 2010		
Actuarial (gain)/loss	\$ 764	\$ 5,890
Prior service (credit)/cost	93	(1,743)
Transition (asset)/obligation		
	<u>\$ 857</u>	<u>\$ 4,147</u>

	2009	2008
Weighted-average assumptions used to determine net periodic pension cost		
Discount rate	6.25% to 6.8%	6% to 6.4%
Expected return on plan assets	6.5% to 8%	6.5% to 8%
Rate of compensation increase	5% to 5.5%	5% to 5.5%

Due to a significant plan amendment of the other postretirement plan in October 2008, there was a remeasurement of plan benefit obligations and assets for this plan. The discount rate used for remeasurement of benefit obligations was 7.85 percent.

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	\$ 2,314	\$ (1,354)

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Expected Cash Flows

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

	Pension Benefits	Other Postretirement Pension Benefits
University contributions:		
2010 (expected)	\$ 3,054	\$ 12,404
Expected benefit payments:		
2010	5,022	9,496
2011	5,186	10,424
2012	5,352	11,447
2013	5,550	12,298
2014	5,772	13,205
2015-2019	32,416	77,070
Total	\$ 59,298	\$ 133,940

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, 2009 and 2008, were \$119.0 million and \$83.1 million, respectively. Operating lease rental expense for the year ended June 30, 2009, was approximately \$24.4 million. Space leases contained 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
2010	\$ 20,329	\$ 8,948
2011	13,894	7,813
2012	9,996	6,402
2013	5,384	5,947
2014	2,964	5,189
Thereafter	6,326	268,449
Less: Interest at 3.949 percent to 5.118 percent		(183,786)
Capital lease obligations at June 30, 2009		\$ 118,962

15. Conditional Asset Retirement Obligations

Financial Accounting Standards Board Interpretation No. 47, *Accounting for Conditional Asset Retirement Obligations* (an interpretation of FASB Statement No. 143), was issued in March 2005. FIN 47 defines a conditional asset retirement obligation as 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

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liability. This interpretation 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 \$98.8 million and \$93.9 million at June 30, 2009 and 2008, respectively.

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16. Bonds and Notes Payable

Bonds and notes payable outstanding at June 30, 2009 and 2008, are as follows:

	2009	2008
Dormitory Authority of the State of New York, tax exempt revenue bonds, Columbia University issues		
Series 2009 A, variable rate, 0.10% to 0.17%, maturing 2039	\$ 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	214,640	219,945
Series 2006 B, 3.25% to 5.25%, maturing 2022	150,075	153,535
Series 2004 A2, 5.00%, maturing 2014	46,500	46,500
Series 2004 B, 4.75% to 5.125%, maturing 2024	83,700	87,580
Series 2004 C, 5.00%, maturing 2029	48,270	48,270
Series 2003 A, 3.20% to 5.125%, maturing 2024	69,995	73,245
Series 2003 B, variable rate, 0.10% to 6.50%, maturing 2028	30,000	30,000
Series 2002 A, 5.00% to 5.25%, maturing 2014	24,570	28,790
Series 2002 B, 4.50% to 5.25%, maturing 2024	37,400	40,725
Series 2002 C, variable rate, 0.30% to 2.05%, maturing 2027	23,300	23,300
Series 2000 A, 4.10% to 5.25%, maturing 2025	39,000	42,750
Series 1994 A, 5.75%, maturing 2010	11,300	21,825
	<u>1,178,465</u>	<u>1,099,180</u>
Dormitory Authority of the State of New York, tax-exempt commercial paper		
Series 1997, variable rate, 0.15% to 4.10%, final maturity 2015	29,820	34,850
New Jersey Economic Development Corporation		
Series 2002, variable rate, 0.30% to 1.95%, final maturity 2028	8,580	8,910
United States Department of Education Housing Program Issues:		
1991, 5.50%, maturing 2021 *	1,533	1,621
1990, 3.00%, maturing 2020 *	1,729	1,859
Medium-Term Notes, Taxable Series C 6.53% to 7.36%, maturing 2021	140,359	152,890
Empire State Development Corporation Issues:		
Interest-free, maturing 2029	8,378	8,538
Interest-free, maturing 2010	7,570	7,075
Economic Development Corporation		
Interest-free, maturing 2010	9,346	8,734
Taxable commercial paper, variable rate, 0.25% to 3.06%, due 2009		60,880
Dormitory Authority of the State of New York College and University Education Loan Revenue Bonds		
Series 1993, 5.60% to 5.65%, maturing 2013	2,839	4,638
Series 1992, 6.80%, maturing 2013	2,436	3,888
Promissory Note, 8%, maturing 2010	3,000	3,000
Promissory Note, 11%, maturing 2010	2,352	2,195
	<u>217,942</u>	<u>299,078</u>
Total bonds and notes payable	<u>\$ 1,396,407</u>	<u>\$ 1,398,258</u>

* Principal fully collateralized by investments

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Estimated Principal Payments on bonds and certificates are summarized below:

Year	Principal
2010	\$ 77,503
2011	64,943
2012	62,445
2013	149,124
2014	65,835
Thereafter (through 2039)	976,557
Total	\$ 1,396,407

At June 30, 2009, the University's bonds and notes payable had a carrying amount of approximately \$1,396.4 million, compared to an estimated fair value of \$1,498.3 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, 2009, \$140.4 million was outstanding. The University also has a \$150 million taxable commercial paper program. As of June 30, 2009, none of the taxable commercial paper was outstanding.

The University issues most of its tax-exempt debt through the Dormitory Authority of the State of New York ("DASNY"). On May 14, 2009, the University issued \$117 million of Series 2009A variable rate bonds in the weekly rate mode at par. On April 23, 2008, the University issued \$282.7 million of Series 2008A fixed rate bonds. Series 2008A was issued at a premium of \$10.9 million, which will be amortized over ten years. The proceeds from Series 2009A and 2008A were used to finance various construction and renovation projects. On July 2, 2007, the University reoffered \$48.3 million of its DASNY Series 2004C bonds at an average yield of 4.4 percent and retired \$1.7 million of the original debt.

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 agreement was (\$36.7) million and (\$15.7) million at June 30, 2009 and 2008, 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, 2009 and 2008.

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 \$111.7 million and \$103.0 million as of June 30, 2009 and 2008, respectively. The University's core liability coverage is purchased through Pinnacle RRG, a Vermont-based risk retention group with fifteen other universities.

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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 1,000 of the University's faculty physicians and dentists are enrolled in MCIC and 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 the 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 final fiscal year 2009 joint budget was approximately \$156 million. The payments to NYPH for goods and services were \$66 million. The revenues received pursuant to this reimbursement arrangement for services rendered are reflected in the consolidated financial statements as a portion of "Patient care revenue." 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.

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 noncontrolled PCs generated revenue of approximately \$61 million and \$55 million during fiscal year 2009 and 2008, 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 physician private practice entities and, as such, consolidates these entities into the University's consolidated financial statements.

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Pursuant to the consent of the Trustees of the CPMC Fund, Inc., in December 2008, the CPMC Fund, Inc. transferred five professorship endowments to the University. The value of the endowments at the time of transfer was \$29.4 million, with \$4.9 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, 2009, the University has recorded \$98.8 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 has entered into contracts to purchase properties with an aggregate value of \$28.0 million. As of June 30, 2009, approximately \$15.2 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.

The University has performed an evaluation of subsequent events through October 28, 2009, which is the date the consolidated financial statements were 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.

The Trustees of Columbia University in the City of New York
Notes to the Consolidated Financial Statements
For the Years Ended June 30, 2009 and 2008
(All amounts are in thousands of dollars, unless otherwise noted.)

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

	2009			2008		
	Expenses per Statement of Activities	Allocation	Final Allocated Expenses	Expenses per Statement of Activities	Allocation	Final Allocated Expenses
Instruction and educational administration	\$ 1,136,588	\$ 210,705	\$ 1,347,293	\$ 1,074,157	\$ 192,445	\$ 1,266,602
Research	432,538	93,688	526,226	398,910	74,081	472,991
Patient care expense	674,656	5,621	680,277	648,893	4,763	653,656
Library	61,098	51,354	112,452	61,020	51,411	112,431
Operation and maintenance of plant	177,375	(177,375)		157,636	(157,636)	
Institutional support	204,520	26,652	231,172	208,685	26,852	235,537
Auxiliary enterprise	97,453	13,632	111,085	97,461	12,148	109,609
Depreciation expense	160,870	(160,870)		153,991	(153,991)	
Interest expense	63,618	(63,618)		50,313	(50,313)	
Other	52,565	211	52,776	43,743	240	43,983
	<u>\$ 3,061,281</u>		<u>\$ 3,061,281</u>	<u>\$ 2,894,809</u>		<u>\$ 2,894,809</u>

The allocation of operation and maintenance of plant is based on square footage occupancy. 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.

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
RESEARCH & DEVELOPMENT CLUSTER				
Department of Health & Human Services				
Direct Awards				
Health Resources & Services Admin				
Maternal and Child Health Federal Consolidated Programs				
COLLABORATIVE OFFICE ROUNDS IN PEDIATRIC ANBULATORY CARE NETWORK	93.110	5 T20 MC07470-02-00		5,361
LEADERSHIP TRAINING IN PEDIATRIC DENTISTRY	93.110	5 T17 MC06359-04-00		175,120
LEADERSHIP TRAINING IN PEDIATRIC DENTISTRY	93.110	2 T17 MC06359-03-00		7,084
TEXT 4 HEALTH: THE USE OF TEXT MESSAGE REMINDER-RECALLS TO COUNTER DISPARITIES IN ADOLESCENT	93.110	1 R40 MC08961-01-00		183,858
TEXT 4 HEALTH: THE USE OF TEXT MESSAGE REMINDER-RECALLS TO COUNTER DISPARITIES IN ADOLESCENT IMMUNIZATION COVERAGE	93.110	5 R40 MC08961-02-00		107,692
TRAINING CED/COR PEDIATRIC AND CHILD PSYCHIATRY - COLLABORATIVE OFFICE ROUNDS IN PEDIATRIC AMBULATOR	93.110	5 T20 MC07470-03-00		13,710
Emergency Medical Services for Children				
EMSC NETWORK DEVELOPMENT DEMONSTRATION PROJECT (NDDP)	93.127	2 U03MC00007-08-00		433,081
EMSC NETWORK DEVELOPMENT DEMONSTRATION PROJECT (NDDP)	93.127	6 U03MC00007-08-01	SC1	26,524
Grants to Increase Organ Donations				
HYPOTHERMIC MACHINE PRESERVATION OF EXTENDED CRITERIA LIVER ALLOGRAFTS FOR TRANSPLANTATION	93.134	1 R38 OT10588-01-00		39,465
AIDS Education and Training Centers				
GLOBAL HIV/AIDS NURSING CAPACITY INITIATIVE: NY	93.145	1 U92 HA12772-01-00		4,531
National Research Service Award in Primary Care Medicine				
NRSA FOR PRIMARY MEDICAL CARE	93.186	1 T32HP10260-01-00		48,687
Nurse Education, Practice and Retention Grants				
NURSE EDUCATION PRACTICE AND RETENTION	93.359	5 D11 HP07346-03-00		166,552
Grants for Training in Primary Care Medicine and Dentistry				
FACULTY DEVELOPMENT IN PRIMARY CARE	93.884	5 D55 HP00027-06-00		-3,773
Bioterrorism Training and Curriculum Development Program				
BIOTERRORISM TRAINING AND CURRICULUM DEVELOPMENT PROGRAM	93.996	6 T01 HP01411-05-04		692,777
Total Direct Award Programs: Health Resources & Services Admin				1,900,669

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, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Health Resources & Services Admin-BHP				
Advanced Education Nursing Traineeships				
ADVANCED EDUCATION NURSING TRAINEESHIPS	93.358	2 A10 HP00142-09-00		124,058
Biomedical Research and Research Training				
FACULTY DEVELOPMENT IN PRIMARY CARE	93.859	5 D55 HP05154-01-00		11,759
Total Direct Award Programs: Health Resources & Services Admin-BHP				135,817
Health Care Financing Admin				
Centers for Medicare and Medicaid Services (CMS) Research, Demonstrations and Evaluations				
INFORMATICS, TELEMEDICINE AND EDUCATION DEMONSTRATION PROJECT	93.779	HCFA 95-C-90998/2-08		1,290,902
INFORMATICS, TELEMEDICINE AND EDUCATION DEMONSTRATION PROJECT	93.779	HCFA 95-C-90998/2-08 PJ1		775
Total Direct Award Programs: Health Care Financing Admin				1,291,677
Food & Drug Administration				
Food and Drug Administration_Research				
A MULTICENTER PHASE 2 TRIAL OF PRALATREXATE IN PATIENTS WITHRELAPESED T-CELL NHL	93.103	5 R01 FD003498-02		452,046
SAFETY OF KEY INHALED AND INTRAVENOUS DRUGS IN PEDIATRICS (SAFEKIDS) INITIATIVE	93.103	HHSF 223200810036C		57,853
TREATMENT OF HYPOPARATHYROIDISM WITH PARATHYROID HORMONE	93.103	2 R01 FD-002525-04A1		276,000
TREATMENT OF HYPOPARATHYROIDISM WITH PARATHYROID HORMONE	93.103	5 R01 FD-R-002525-02		10,515
TREATMENT OF HYPOPARATHYROIDISM WITH PARATHYROID HORMONE	93.103	5 R01 FD-002525-03		-4,298
Total Direct Award Programs: Food & Drug Administration				792,116
Center for Disease Control				
EVAL.. OF NEW INTERFERON Y RELEASE ASSAYS IN THE DIAGNOSIS OF LATENT TUBERCULOSIS INFECTION IN HEALTHCARE WORKERS	93.000	1 N01 *CDC		250,902
FACTORS ASSOCIATED WITH TREATMENT FOR LATENT TUBERCULOSIS INFECTION -PHASES 2 AND 3	93.000	CDC 200-2001-00076		84,663
NATIONAL STUDY OF DETERMINANTS OF EARLY DIAGNOSIS, PREVENTION, AND TREATMENT OF TB IN THE AFRICAN-AMERICAN COMMUNITY	93.000	CDC20020010007641287		6,116
TUBERCULOSIS EPIDEMIOLOGIC STUDIES CONSORTIUM	93.000	CDC 200-2001-00076/0		171,975
Innovations in Applied Public Health Research				
A MOBILE TEAM APPROACH TO HEALTH PROMOTION IN SMALL BUSINESS	93.061	5 R01 DP000110-03		69,332
A STUDY OF AN EHR TO TRANSLATE PUBLIC HEALTH PRACTICES	93.061	1 R18 HK000057-01		592,199
EMERGENCE OF DISPARITIES IN US MORTALITY: A FOCUS ON PREVENTION AND TREATMENT	93.061	1 R36 SH000004-01		25,327

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, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
NEIGHBORHOOD CHARACTERISTICS AND RISK OF GESTATIONAL DIABETES IN NEW YORK CITY	93.061	1 R36 DP001163-01		2,795
Project Grants and Cooperative Agreements for Tuberculosis Control Programs				
IMMUNOGENETIC AND IMMUNOLOGIC MARKERS FOR TUBERCULOSIS	93.116	CDC 200-2001-00076		17,006
Centers for Research and Demonstration for Health Promotion and Disease Prevention				
CREATING DIGITAL PARTNERSHIPS FOR HEALTH	93.135	5 U48 DP000030-05		544,479
CREATING DIGITAL PARTNERSHIPS FOR HEALTH	93.135	5 U48 DP000030-04		223,090
IMPROVING ORAL CARE DELIVERY FOR THE HOMEBOUND ELDERLY	93.135	3 U48 DP000030-03S1 SUP		51,282
IMPROVING ORAL CARE DELIVERY FOR THE HOMEBOUND ELDERLY	93.135	3 U48 DP000030-02S1 SUP		-780
MISSED OPPORTUNITIES FOR TB PREVENTION IN FOREIGN-BORN POPULATIONS IN THE UNITED STATES AND CANADA	93.135	CDC 200-2001-0		-39,329
MMUNOGENETIC AND IMMUNOLOGIC MARKERS FOR TUBERCULOSIS COST REIMBURSEMENT PORTION	93.135	CDC 200-2001-0		5,849
Injury Prevention and Control Research and State and Community Based Programs				
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-04		293,034
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-04 SC1		200,467
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-03		169,185
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-04 SC2		103,823
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-03 SC1		57,118
COLUMBIA CENTER FOR YOUTH VIOLENCE PREVENTION	93.136	5 U49 CE000731-03 SC2		47,160
Human Health Studies_Applied Research and Development				
TUBERCULOSIS TRIALS CONSORTIUM	93.206	5 B02 CDC 200-2003-0		546,263
Occupational Safety and Health Program				
BIOMARKER AND INTERVENTION IN OCCUPATIONAL CANCER	93.262	5 R01 OH007590-05		258
BLOODBORNE PATHOGEN RISK IN HOME HEALTHCARE WORKERS	93.262	5 R01 OH008215-04		222,784
WORKER GENETIC SUSCEPTIBILITY TO MUTAGENIC RISK	93.262	5 R01 OH004192-06		35,138
Centers for Disease Control and Prevention_Investigations and Technical Assistance				
APPLIED RESEARCH IN ANTIMICROBIAL RESISTANCE: STUDIES OF SUSCEPTIBILITY TESTING	93.283	5 R01 CI000537-02		194,348
APPLIED RESEARCH IN ANTIMICROBIAL RESISTANCE: STUDIES OF SUSCEPTIBILITY TESTING	93.283	1 R01 CI000537-01		141,517
COLLABORATIONS IN PUBLIC HEALTH LAW AS IT RELATES TO ORAL HEALTH ISSUES	93.283	1 U3 8 DP001085-01		46,807
CONTROLLING ASTHMA IN AMER. CITIES PROJECT - PHASE II INTERVENTION IMPLEMENTATION	93.283	5 U59 /CU223268-05		125,663
CROSSWALK OF THE CDC HEALTHY DAYS MEASURES TO OTHER PREFERENCE BASED HEALTH RELATED QUALITY OF LIFE MEASURES	93.283	CDC 200-2008-M27599		75,001
STOPPING URIS AND FLU IN THE FAMILY: THE STUFFY TRIAL	93.283	5 U01 CI000442-02R1		207,276
STOPPING URIS AND FLU IN THE FAMILY: THE STUFFY TRIAL	93.283	3 U01 CI000442-02 SC1		10,724

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, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
HIV Demonstration, Research, Public and Professional Education Projects				
NOVEL HIV PREVENTION FOR AFRICAN AMERICAN, METHAMPHETAMINE- INVOLVED MALE COUPLES	93.941	1 UR6 PS000300-01		—
NOVEL HIV PREVENTION FOR AFRICAN AMERICAN, METHAMPHETAMINE-INVOLVED MALE COUPLES	93.941	5 UR6 PS000300-02		90,096
TRANSLATING PROVEN INTERVENTIONS FOR UNDERSERVED AND EMERGENT HIGH-RISK POPULATION	93.941	5 U65 PS000239-02		28,246
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 PS000700-02		176,948
PS07-003, MINORITY HIV/AIDS RESEARCH INITIATIVE (MARI)	93.943	1 U01 PS000700-01		49,461
Cooperative Agreements to Support State-Based Safe Motherhood and Infant Health Initiative Programs				
FAMILY AND CULTURAL INFLUENCES ON SEX AMONG LATINO YOUTH	93.946	5 U01 DP000175-04		296,252
FAMILY AND CULTURAL INFLUENCES ON SEX AMONG LATINO YOUTH	93.946	5 U01 DP000175-05		13,847
FAMILY AND CULTURAL INFLUENCES ON SEX AMONG LATINO YOUTH	93.946	5 U01 DP000175-03		-7,400
Preventive Health Services_Sexually Transmitted Diseases Research, Demonstrations, and Public Information and Education Grants				
CDC DIVISION OF ADOLESCENT AND SCHOOL HEALTH AND DIVISION OF SEXUALLY TRANSMITTED DISEASE PREVENTION PARTNERSHIP	93.978	CDC CONTRACT NO. 200		24,499
Total Direct Award Programs: Center for Disease Control				5,153,421
Admin for Children & Families				
Social Services Research and Demonstration				
CHILD CARE AND EARLY EDUCATION RESEARCH CONNECTIONS	93.647	90YE0104/01		835,277
CHILD CARE RESEARCH COLLABORATION AND ARCHIVE PROJECT	93.647	90YE0063/05		881,724
Total Direct Award Programs: Admin for Children & Families				1,717,001
Agency for Healthcare Research & Quality				
Research on Healthcare Costs, Quality and Outcomes				
CMS CHANGES IN REIMBURSEMENT FOR HAIS: SETTING A RESEARCH AGENDA	93.226	1 R13 HS018099-01		30,302
COMMUNICATION PROBABILITIES THROUGH INTERACTIVE COMPUTER GRAPHICS	93.226	5 R03 HS016333-02		395
STRATEGIES FOR IMPROVING THE QUALITY OF PREVENTIVE SERVICES IN PRIMARY CARE	93.226	5 K02 HS017007-02		86,591
STRATEGIES FOR IMPROVING THE QUALITY OF PREVENTIVE SERVICES IN PRIMARY CARE	93.226	1 K02 HS017007-01		27,335
Health Sciences Research--Educating in the Public--Phase 1				
HEALTH SCIENCES RESEARCH--EDUCATING IN THE PUBLIC--PHASE 1	93.333	5 R25 RR017374-05		154,317
Total Direct Award Programs: Agency for Healthcare Research & Quality				298,940
Other DHHS (Non-NIH)				

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Improving, Enhancing, and Evaluating Outcomes of Comprehensive Heart Health Care Programs for High-Risk Women				
HEART HEALTH CARE IN ACTION	93.012	DHHS HHCWH050003-01-		-1,141
Centers for Genomics and Public Health				
THE BEHAVIORAL AND HEALTH EFFECTS OF SEPTEMBER 11TH 2001 ON THE COMMUNITIES OF NEW YORK CITY	93.063	5 K01 CE000494-03		20,940
Research on Healthcare Costs, Quality and Outcomes				
EXPLORATORY STUDY USING QUEUEING THEORY TO IMPROVE NURSE STAFFING EFFECTIVENESS	93.226	5 R21 HS017423-02		191,864
EXPLORATORY STUDY USING QUEUEING THEORY TO IMPROVE NURSE STAFFING EFFECTIVENESS	93.226	HS017423-01A1		86,085
Cancer Research Manpower				
ANALYSIS OF BRCA1 E3 UBIQUITIN LIGASE & PHOSPHOPEPTIDE BINDING ACTIVITY	93.398	1 F31CA132626		7,789
Child Health and Human Development Extramural Research				
THE NATIONAL STANDARD FOR NORMAL FETAL GROWTH	93.865	HHSN267200800013C		125,528
Assistance Programs for Chronic Disease Prevention and Control				
RACIAL AND ETHNIC APPROACHES TO COMMUNITY HEALTH	93.945	DP222197-05		—
Family Planning_Service Delivery Improvement Research Grants				
FAMILY PLANNING SERVICE DELIVERY IMPROVEMENT RESEARCH	93.974	1 FPRPA006032-01-00		132,922
IMPACT OF PACK SUPPLY ON CONTRACEPTIVE CONTINUATION	93.974	FPRPA006025-03-00		159,674
IMPACT OF PACK SUPPLY ON CONTRACEPTIVE CONTINUATION	93.974	FPRPA006025-02-00-02		49,347
MEN'S REPRODUCTIVE AND SEXUAL HEALTH PRACTICES, ATTITUDES AND SERVICE UTILIZATION	93.974	1 FPRPA006019-03-00		68,121
Total Direct Award Programs:				
Other DHHS (Non-NIH)				841,129
Pass-through Awards				
Health Resources & Services Admin				
ALTARUM INSTITUTE	93.000	ALTARUM CU08-8678	HHS250200646028I	24,485
NEW YORK CENTER FOR LIVER TRANSPLANTATION, INC	93.000	NYCLT AAAC3916-01	R39OT07539	13,278
Model State-Supported Area Health Education Centers				
MEDICAL & HEALTH RESEARCH ASSOC. OF NEW YORK CITY, INC.	93.107	MHRA 07-CU-01	3 H12 HA07835-03-01	87,642
Maternal and Child Health Federal Consolidated Programs				
MASSACHUSETTS GENERAL HOSPITAL	93.110	MGH CU09-1178	UA3MC11054	50,473

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, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Community Programs to Improve Minority Health Grant Program COMMUNITY HEALTHCARE NETWORK	93.137	CHCNTWK CU08-9012	G920A 03996-01-00	94,992
Research on Healthcare Costs, Quality and Outcomes INSTITUTE FOR FAMILY HEALTH	93.226	IFFAMH CU08-7819	HRSA 1 H2HIT08613-01-00	70,360
Health Careers Opportunity Program MOUNT SINAI SCHOOL OF MEDICINE	93.822	MSSM 0523-6291-4609	1 D18 HP10627-01-00	87,474
National Bioterrorism Hospital Preparedness Program JACOBI HOSPITAL CENTER	93.889	JACOBH CU09-1775	NRSA	18,943
HIV Emergency Relief Project Grants	93.914	MHRA 93-EVL-4645		632,786
	93.914	MHRA 93-EVL-4645	2 R01 NYCDOH	1,122
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.928	PH CU-08-9072	1 H79 HA08483-01-00	74,231
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.928	PH CU08-9916	1 H97HA08483-01-00	80,605
PRESBYTERIAN HOSPITAL IN THE CITY OF NEW YORK	93.928	PH CU08-0140	1 H97HA08483-01-00	12,333
International Research and Research Training WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.989	CUMC 08091288	3 D43 TW000018-21s1	18,626
Maternal and Child Health Services Block Grant to the States NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDH C-021002		123,381
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDH C-021002		35,644
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDH C-021002	HRSA	-3
Total Pass-through Programs: Health Resources & Services Admin				1,426,372
Food & Drug Administration				
CHILDREN'S HOSPITAL MEDICAL CENTER, OHIO	93.000	CHMCO 100122	FD-R-002369	10,121
Food and Drug Administration_Research MASSACHUSETTS GENERAL HOSPITAL	93.103	MINO2-2004 #60943-01	5 R01 FD002588-02	-2,057
Total Pass-through Programs: Food & Drug Administration				8,064

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, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Center for Disease Control				
Project Grants and Cooperative Agreements for Tuberculosis Control Programs				
NEW JERSEY DEPARTMENT OF HEALTH	93.116	NJDH CU00-0713	CDC	54,652
Occupational Safety and Health Program				
UNIVERSITY OF ILLINOIS	93.262	UIL CU08-9562	7 R01 OH004192-08	33,795
ASSOCIATION FOR PREVENTION TEACHING AND RESEARCH	93.283	APTAR CU08-9263	5U50CD3000-860-21	161,400
ASSOCIATION OF AMERICAN MEDICAL COLLEGES	93.283	AAMC MM-1002-07/07	5 U36/CCU319276-05	309,367
ASSOCIATION OF AMERICAN MEDICAL COLLEGES	93.283	AAMC MM-1002-07/07	5U36/CCU319276-06	232,679
ASSOCIATION OF AMERICAN MEDICAL COLLEGES	93.283	AAMC CU 08-8820	5 U36CD319276	18,206
National Center for Infectious Disease/CDC/DHHS	93.283	3 U01 C1000442-02S1 SC2		36,558
National Center for Infectious Disease/CDC/DHHS	93.283	3 U01 C1000442-02S1 SC3		2,597
NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGINE	93.283	SHRI 3476-01	5 U58DP00078302	331,239
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.283	HUNTER 41655A	09YDP001085B	29,335
UNIVERSITY OF TEXAS HOUSTON HEALTH SCIENCE CENTER	93.283	UTEXHOUS S3031-23/23	5 U36-CCU300430-25	21,432
UNIVERSITY OF TEXAS HOUSTON HEALTH SCIENCE CENTER	93.283	UTEXHOUS S3031-23/23	5 U36-CCU300430-24	—
Microbiology and Infectious Diseases Research				
AMERICAN ASSOCIATION OF HEALTH PLANS	93.856	AAHP 200-2002-00732		217,129
AMERICAN ASSOCIATION OF HEALTH PLANS	93.856	AAHP CU51858905	CDC #200-2002-00732	101,824
AMERICAN ASSOCIATION OF HEALTH PLANS	93.856	AAHP 200-2002-00732 SC1		77,596
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 PS000698-02	21,095
NEW YORK ACADEMY OF MEDICINE	93.943	NYAMED CU08-7923	1 U01 PS000698-01	6,653
Trauma Care Systems Planning and Development				
NEW YORK ACADEMY OF MEDICINE	93.952	NYAM CU08-7393	1 U01 PS000698-01	-5,226
Total Pass-through Programs: Center for Disease Control				1,650,331
Admin for Children & Families				
ICF INCORPORATED	93.000	ICFI 28HT00294	HHSP233-2008-RFQ0011	53,674

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
XTRIA L.L.C.	93.000	XT-2007-001	HHSP233200700002T	5,713
Child Abuse and Neglect Discretionary Activities				
CENTER FOR THE STUDY OF SOCIAL POLICY	93.670	CSSP 080913	90CA1763/01	115,091
Total Pass-through Programs: Admin for Children & Families				174,478
Substance Abuse & MHS Admin				
DB CONSULTING GROUP INC	93.000	*DBINC CU52303101	SAMSA 270-05-0109	9,397
PHOENIX PROGRAMS OF NEW YORK, INCORPORATED	93.144	PPNY CU51777303	5 B06 6511323-03	-4
Substance Abuse and Mental Health Services_Projects of Regional and National Significance				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.243	SRFMH CU52235803	5 U79 SM557433-03	-30,777
Total Pass-through Programs: Substance Abuse & MHS Admin				-21,384
Agency for Healthcare Research & Quality				
Research on Healthcare Costs, Quality and Outcomes				
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.226	SHRI 3532-01	29-312-0211557	59,355
NEW YORK UNIVERSITY	93.226	NYU S2210-01	1 R18 HS017167-01	57,469
PRIMARY CARE DEVELOPMENT CORPORATION	93.226	PCDC CU09-1354	1 R18 HS017167-01	41,428
Mental Health Research Grants				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU09-1817	2 R01 MH069133-06A1	5,426
Total Pass-through Programs: Agency for Healthcare Research & Quality				163,678
Other DHHS (Non-NIH)				
DECISION INFORMATION RESOURCES, INC	93.000	DIS PT08-7687	HHSP23320072904YC	5,231
RESEARCH TRIANGLE INSTITUTE	93.000	RTI 23-312-0208490	DHHS 233-02-0090	7,000
Public Health and Social Services Emergency Fund				
ABT (CLARK) ASSOCIATES, INCORPORATED	93.003	02-001-CCSUBSIDY-783	5 R01 DHHS 233-01-0015	4,697

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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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Allied Health Special Projects				
LUTHERAN FAMILY HEALTH CENTERS	93.191	LFHC CU09-0490	6 H4MHP11080-01-01	66,817
Policy Research and Evaluation Grants				
ABT (CLARK) ASSOCIATES, INCORPORATED	93.239	ABTAI 233-02-0088	HHSP233200700006T	44,167
UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	93.239	UKRF 3048107033-08-2	5 U01 PE000002-06	2,809
Drug Abuse and Addiction Research Programs				
UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	93.279	UKRK 3048105116-09-2	DHHS	85,116
Social Services Research and Demonstration				
OREGON STATE UNIVERSITY	93.647	OREGSU P0209A	90YE0075/03	31,838
Maternal and Child Health Services Block Grant to the States				
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	SDOH C-019461		49,308
Total Pass-through Programs: Other DHHS (Non-NIH)				296,983
Total: Department of Health & Human Services				15,829,292

National Institute of Health
Direct Awards

National Institute on Aging

PILOT AGING AND AVIATION SAFETY	93.000	7 R01 AG13642-10		96,829
Diabetes, Digestive, and Kidney Diseases Extramural Research				
EFFECTS OF AGE ON THE COGNITIVE ERPD/CARDIAC WAVE EFFECT	93.847	2 R01 AG005213-20A2		16,005
Microbiology and Infectious Diseases Research				
BONE MASS AND MINERAL METABOLISM IN HIV+ WOMEN	93.856	5 K23 AI059884-04		125,206
Aging Research				
AGING & VULNERABILITY TO ISCHEMIA: PATHWAYS & RESCUE	93.866	5 P01 AG026467-02		101,057
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	1 P01 AG026467-01A2	COC	399,759
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	5 P01 AG026467-02	COC	261,465
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	1 P01 AG026467-01A2	COB	251,014
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	1 P01 AG026467-01A2	PJ1	159,456

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	5 P01 AG026467-02 PJ1		130,265
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	1 P01 AG026467-01A2 PJ3		130,236
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	1 P01 AG026467-01A2 COA		107,520
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	5 P01 AG026467-02 COB		92,466
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	1 P01 AG026467-01A2 PJ2		92,071
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	5 P01 AG026467-02 PJ2		81,852
AGING AND VULNERABILITY TO ISCHEMIA: PATHWAYS AND RESCUE	93.866	5 P01 AG026467-02 PJ3		81,479
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG08702-18 EIT		1,647
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 CCH		552,313
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 GCC		340,841
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 NPC		226,981
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 PJ3		182,697
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 PJ2		177,030
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 PJ1		159,427
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 DMC		137,698
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 COE		99,851
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 CO		82,998
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-18		82,071
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 CCB		63,804
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	3 P50 AG008702-19S1		63,555
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-18 PJ2		54,907
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 PL1		54,107
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-19 PL2		46,034
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-18 CCB		38,232
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG08702-18 ADM		29,733
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 CCH		27,505
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 GCC		22,753
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 PJ50 AG008702-20 NPC		12,974
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-18 CCH		10,307
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 PAG008702-20 PJ3		7,340
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 PJ1		6,832
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 SUP		6,679
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20		6,625
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 PJ2		6,576
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-18 GCC		4,590
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG08702-18 PJ3		4,179
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 PL1		3,746
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 DMC		3,476
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 CCB		2,697
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG08702-18 PJ1		1,247

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-18 NPC		894
ALZHEIMER'S DISEASE RESEARCH CENTER AT COLUMBIA UNIVERSITY	93.866	5 P50 AG008702-20 COE		10
ASSESSING THE EFFECTS OF SYNJ1 HAPLOINSUFFICIENCY IN ALZHEIMER'S DISEASE MODELS	93.866	1 R03 AG033212-01A1		5,951
AWARENESS OF DEFICIT IN ALZHEIMER'S DISEASE	93.866	5 K23 AG032899-2		78,580
CALPAIN INHIBITORS AGAINST ALZHEIMER'S DISEASE	93.866	1 U01 AG028713-01A1		42,727
CAPLAIN INHIBITORS AGAINST ALZHEIMER'S DISEASE	93.866	1 U01 AG028713-01		456,502
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 PJ4		25,226
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 COB		1,194
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 PJ3		224
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 PJ1		347,984
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 PJ4		304,338
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 CO COB		245,056
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 PJ PJ3		241,599
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 PJ PJ2		199,016
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 CO COC		140,217
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG017490-08 CO COA		96,422
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 COA		36,376
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 PJ2		5,662
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 COC		-6,411
CELLULAR COFACTORS, NEURONAL STRESS AND RESCUE, AGING AND ALZHEIMER'S DISEASE	93.866	5 P01 AG174490-07 PJ1		-18,850
COGNITIVE TEST PERFORMANCE OF AFRICAN AMERICAN ELDERS	93.866	5 R01 AG016206-09		251,507
COGNITIVE TEST PERFORMANCE OF AFRICAN AMERICAN ELDERS	93.866	3 R01 AG016206-08S2 SUP		7,034
COLUMBIA CENTER FOR THE ACTIVE LIFE OF MINORITY ELDERS	93.866	5 P30 AG015294-10 CO1		5,264
DIET, BIOMARKERS AND LUNG FUNCTION	93.866	1 K08 AG030235-01A2		107,840
EARLY AD DETECTION WITH ASL MRI AND COVARIANCE ANALYSIS	93.866	1 R01 AG026114-01A2		213,649
EARLY DETERMINANTS IN ADULT HEALTH	93.866	5 P01 AG023028-05		274,678
EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19 COE		89,190
EPIDEMIOLOGY OF MENOPAUSE AND DEMENTIA IN DOWN SYNDROME	93.866	5 R01 AG14673-9		467,856
GENETIC CONSORTIUM FOR LATE ONSET ALZHEIMER'S DISEASE	93.866	5 U24 AG026395-04		1,524,303
GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	2 R01 AG15473-06 SCB		-2
GENETIC EPIDEMIOLOGY OF ALZHEIMERS DISEASE IN AFRICAN AMERICANS	93.866	5 R01 AG028786-2		1,174,145
GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	5 R37 AG15473-10		866,840
GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	4 R37 AG015473-11		333,463
GENETIC EPIDEMIOLOGY OF ALZHEIMER'S DISEASE IN HISPANICS	93.866	3 R37AG015749-10S1		15,000
GENETICS CONSORTIUM FOR LATE ONSET ALZHEIMER'S DISEASE	93.866	5 U24 AG026395-03		580,261
GENETICS CONSORTIUM FOR LATE ONSET ALZHEIMER'S DISEASE	93.866	5 U24 AG026395-02		-2,713
IMAGING OF COGNITION, LEARNING AND MEMORY IN AGING	93.866	5 R01 AG026158-04		447,372
LAMIN A MUTATION AND HUTCHINSON-GILFORD PORGERIA	93.866	5 R01 AG025240-3		232,278
MAGNETIC RESONANCE IMAGING AND MOUSE MODELS OF ALZHEIMERS DISEASE AND AGING.	93.866	5 R01 AGO25161-04		264,345
MECHANISM OF COGNITIVE DYSFUNCTION: CEA AND STENTING	93.866	2 R01 AG017604-05A2		312,167

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MEDITERRANEAN DIET AND OTHER DIETARY PATTERNS IN ALZHEIMER'S DISEASE	93.866	5 R01 AG028506-2		398,101
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN FAMILIES	93.866	5 U01 AG023749-05		978,252
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN FAMILIES	93.866	3 U01 AG023749-05	SC1	50,843
MULTICENTER STUDY ON EXCEPTIONAL SURVIVAL IN FAMILIES	93.866	5 U01 AG023749-04		6,293
NEUROPSYCHOLOGY AND COGNITION IN AGING	93.866	5 T32 AG000261-10		73,123
NEUROPSYCHOLOGY AND COGNITION IN AGING	93.866	2 T32 AG000261-11		14,480
NEUROPSYCHOLOGY AND COGNITION IN AGING	93.866	5 T32 AG000261-09		177
NIH PARTNERS IN RESEARCH PROGRAM	93.866	1 R03 AG033929-01		11,194
NITRIC OXIDE/SOLUBLE GUANYLYL-CYCLASE/CGMP/CREB PATHWAY ENHANCERS FOR TREATMENT OF ALZHEIMER'S DISEASE	93.866	5 R21 AG027468-02		169,559
PATHOPHYSIOLOGY OF HEART FAILURE WITH A NORMAL EJECTION FRACTION IN THE ELDERLY	93.866	1 R01 AG027518-01A1		565,875
PILOT TRIAL OF METFORMIN IN AMNESTIC MCI	93.866	1 R01 AG026413-01		390,977
PREDICTORS OF SEVERITY IN ALZHEIMER'S DISEASE	93.866	5 R01 AG007370-17		1,250,212
PRENATAL UNDER NUTRITION AND MORTALITY THROUGH AGE 63 PROJECT	93.866	1 R01 AG028593-01A2		321,228
PROTEOMIC STUDIES OF THE HUTCHISON-GILFORD PROGERIA	93.866	5 R01 AG025302-03		451,385
QUESTIONABLE DEMENTIA: COURSE AND PREDICTORS OF OUTCOME	93.866	2 R01 AG017761-11A2		584,891
QUESTIONABLE DEMENTIA: COURSE AND PREDICTORS OF OUTCOME	93.866	2 R01 AG017761-11A2	SC1	136,299
ROLE OF BAX IN THE MPTP MODEL OF PARKINSON'S DISEASE	93.866	5 R01 AG021617-05		136,777
SPHINGOLIPIDS: REGULATORS OF STEROL-REGULATORY ELEMENT BINDING PROTEINS (SREBPS) AND LIPID METABOLISM	93.866	5 K08 AG025883-02		116,557
THE EFFECT OF AGE ON NEUROMORPHOLOGY AND ITS COGNITIVE	93.866	1 K23 AG029949-01		143,313
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	PJ1	6,167
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	COB	1,024,797
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	CO COE	259,283
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	COC	246,035
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20		148,782
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19		126,497
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	PJ4	68,226
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	CO COD	59,415
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	COB	57,657
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	CD CD2	49,820
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	PJ3	43,069
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	PJ PJ2	42,966
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	COC	36,693
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-20	PJ PJ1	31,436
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	CD2	26,865
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	PJ2	11,620
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	PJ3	9,409
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	PJ4	2,571
THE EPIDEMIOLOGY OF DEMENTIA IN AN URBAN COMMUNITY	93.866	5 P01 AG007232-19	COD	2,165
U	93.866	5 P30 AG015294-10	CO3	42,962
U	93.866	5 P30 AG015294-10	SUP	24,187

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U	93.866	5 P30 AG015294-10 CO2		859
Total Direct Award Programs: National Institute on Aging				22,136,343
Nat. Inst. of Allergy & Infectious Disease				
Trans-NIH Research Support				
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-04 LOI		109,974
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-04 YIN		88,661
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.310	5 U19 AI067773-04 TUR		84,436
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.310	5 U19 AI067773-03 PJ1		391,082
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.310	5 U19 AI067773-03 COB		138,933
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-03 ADM		938,145
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-04 PJ1		536,494
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-04 PJ2		331,566
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-03 PJ2		310,420
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-04 COB		228,925
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.310	5 U19 AI067773-04 PJ PJ4		52,603
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY (ADM)	93.310	5 U19 AI067773-04 ADM		2,346,963
WORKSHOP ON BIODOSIMETRY	93.310	1 U19 AI06777-03		23,520
Allergy, Immunology and Transplantation Research				
ADMINISTRATIVE	93.855	1 U19 AI067773-01 ADM		-38,447
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 R		242,203
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ3		26,737
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ1		15,787
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 PJ2		4,504
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-09 COA		621
AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI046132-07 COA		-1
B LYMPHOCYTE INDUCED MATURATION PROTEIN	93.855	5 R01 AI043576-10		-6,565
CD8+ T CELLS CONTROL AUTOMMUNITY IN EAE	93.855	5 R01 AI065609-02		135,830
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE DOSIMETRY	93.855	5 U19 AI067773-04 SUP		31,912
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-02 PJ2		765
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-02 ADM		-36,806
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-03 PJ5		40,140
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-03 SUP		30,246
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	1 U19 AI067773-01 PJ3		5,502
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-02 PJ5		194
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-02 COB		148
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-02 PJ1		117
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION BIODOSIMETRY	93.855	5 U19 AI067773-03 PJ8		44

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 No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 PJ6		67,916
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 PJ7		41,381
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 P10		21,986
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 P12		1,666
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 PJ9		463
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 P13		-3,817
CENTER FOR HIGH-THROUGHPUT MINIMALLY-INVASIVE RADIATION DOSIMETRY	93.855	5 U19 AI067773-03 P11		-9,404
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-02		380,087
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-03		325,068
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	3 U01 AI069466-02 SC3		319,866
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-02 SC2		250,710
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	5 U01 AI069466-02 SC1		135,304
CENTERS FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	3 U01 AI069466-02 SC4		36,582
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS (CC-CTU)	93.855	5 U01 AI069470-03		412,559
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS(CC-CTU)	93.855	1 U01 AI069470-01 IMP		1,901
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS(CC-CTU)	93.855	1 U01 AI069470-01 HPT		18
COLUMBIA COLLABORATIVE HIV/AIDS CLINICAL TRIALS(CC-CTU)	93.855	1 U01 AI069470-01 ITC		-218
CONSORTIUM FOR INNOVATIVE RESEARCH TO CONTROL AIDS	93.855	1 U01 AI069466-01		179,149
DENDRITIC CELL-SPECIFIC GENE TARGETING AND EXPRESSION	93.855	5 R21 AI067804-02		90,932
DIGESTIVE VACUOLE BIOGENESIS IN THE MALARIA PARASITE	93.855	3 F32 AIO66826-03		747
ENTEROVIRUS PATHOGENESIS	93.855	1 R56 AI068017-01A2		-5,826
GENETIC ANALYSIS OF MONOCTYE KILLING BY BACTERIA	93.855	5 R01 AI023549-23		351,320
GENETIC CONTROL OF C. ALBICANS BIOFILM FORMATION	93.855	5 RO1 AI067703-02		214,068
GENETIC CONTROL OF ENTRY INTO MEIOSIS IN YEAST	93.855	5 R01 AI070272-19		71,674
GENETICS OF MONOCYTE KILLING BY BACTERIA	93.855	2 R01 AI023549-24		11,902
GENOME CENTER: GENE EXPRESSION PATTERNS AND LIFESTYLES IN LEGIONELLA	93.855	5 R01 AI064481-04		702,126
GENOMIC DISSECTION OF BIOFILM FORMATION IN C. ALBICANS	93.855	5 F32 AI071439-02		9,529
HARLEM FAMILY CENTER	93.855	5 U01 AI069470-03 HFC		142,750
HIV PREVENTION & TREATMENT CRS CORE/PIF	93.855	5 U01 AI069470-03 HPT		532,833
IFN-IS AT THE INTER FACE OF INNATE AND ADAPTIVE IMMUNITY	93.855	5 R01 AI058211-04		124,659
IMMUNOLOGICAL DISEASE MECHANISMS	93.855	5 T32 AI07525-10		54,336
IMPAACT CRS	93.855	5 U01 AI069470-03 IMP		119,381
MICHAEL PARTRIDGE PILOT PROJECT GRANT	93.855	5 U19 AI067773-02 PJ3		-5,502
MOLECULAR CONTROL OF PLASMACYTOID DENDRITIC CELL DEVELOPMENT AND FUNTION	93.855	1 R01 AI072571-01A1		343,262
MONONUCLEAR LEUKOCYTES IN IMMUNITY	93.855	5 R01 AI020516-25		279,985
NEW APPROACH TO STUDY WEST NILE VIRUS FUSION INTO CELLS	93.855	5 R21 AI059177-02		126,540
NORTHEAST BIODEFENSE CENTER	93.855	2 U54 AI057158-06		121,577
OSTEOPOROSIS IN HIV-INFECTED POSTMENOPAUSAL WOMEN	93.855	5 R01 AI065200-04		537,631
PATHOGENESIS & EPIDEMIOLOGY OF S EPIDERMIDIS VENTRICULAR ASSIST DEVICE INFECTIONS	93.855	1 K08 AI072043-01A1		104,658
POLYMICROBIAL INDUCTION OF EPITHELIAL INFLAMMATION	93.855	7 K08 AI065450-03		67,049

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PREDICTION OF LUPUS OUTCOME BY GENE EXPRESSION PATTERNS	93.855	5 R01 AI055704-04		-1,424
REGULATION OF LINEAGE SPECIFICITY OF CD4 SILENCING	93.855	5 R01 AI057835-04		342,771
RESISTANCE OF BACILLUS ANTHRACIS TO LYSOZYME	93.855	1 R21 AI076841-01A1		211,184
RHINOVIRUS PATHOGENESIS AND HOST RANGE	93.855	3 R01 AI50754-06A1S1		332,952
RHINOVIRUS PATHOGENESIS AND HOST RANGE	93.855	3 R01 AI050754-06A1S		63,242
ROLE OF ANTHRAX TOXIN RECEPTORS IN ANGIOGENESIS AND ENDOTHELIUM	93.855	1 R01 AI064654-01A2		405,173
ROLE OF CHAT-H IN CHEMOKINE-INDUCED T LYMPHOCYTE MIGRATION	93.855	1 R01 *NIAID CU5228		49,121
ROLE OF PRCRT IN CHLOROQUINE RESISTANCE IN P. FALCIPARUM	93.855	7 R01 AI050234-07		364,464
THE AUTOIMMUNITY CENTERS OF EXCELLENCE	93.855	5 U19 AI056362-0503 DIA		-21,565
THE ROLE OF E2-2 IN THE DEVELOPMENT AND FUNCTION OF PLASMACYTOID DENDRITIC CELLS	93.855	1 F31 AI080184-01		27,549
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.855	5 T32 AI049821-08		300,487
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.855	5 T32 AI049821-07		18,385
TRAINING IN THE EPIDEMIOLOGY OF INFECTIOUS DISEASES	93.855	2 T32 AI049821-06		4,857
VARICELLA ZOSTER VIRUS:CLINICAL IMPLICATIONS OF IMMUNITY	93.855	5 R01 AI024021-19		450,649
VIRAL ARRAYS FOR BIODEFENSE	93.855	5 U01 AI070411-03		866,423
VIRAL ARRAYS FOR BIODEFENSE	93.855	5 U01 AI070411-02		444,556
VIRAL ARRAYS FOR BIODEFENSE	93.855	5 U01 AI070411-02 SC1		102,305
Microbiology and Infectious Diseases Research				
ADULT THERAPEUTIC CLINICAL TRIALS PROGRAM FOR AIDS	93.856	5 U01 AI46386-05X3 SP2		108
BACTERIA VAGINOSIS ETIOLOGY, NATURAL HISTORY, AND SEXUAL TRANSMISSION STUDY	93.856	5 R01 AI47608-05		4,287
COMMUNITY PROGRAM FOR CLINICAL RESEARCH	93.856	3 U01 AI042171-13S3		2,900
LARGE-SCALE ANALYSIS OF CANDIDA ALBICANS GENE FUNCTION	93.856	5 R01 AI057804-04		9,760
MASS TAG PCR DETECTION OF RESPIRATORY PATHOGENS	93.856	5 UC1 AI062705-01		443,128
PATHOGENESIS OF SEVERE MALARIAL ANEMIA IN THAILAND	93.856	5 R01 AI051310-04		268,816
PATHOGENESIS OF SEVERE MALARIAL ANEMIA IN THAILAND	93.856	5 R01 AI051310-04 SC1		37,337
ROLE OF ZINC FINGER X CHROMOSOME (ZFX) IN LYMPHOCYTE DEVELOPMENT AND FUNCTION	93.856	5 F31 AI066459-03		762
STUDIES OF HUMAN AND MURINE SYSTEMIC LUPUS ERYTHEMATOSUS	93.856	5 P01 AI051392-05 PJ1		-23,203
TRAINING IN PEDIATRIC INFECTIOUS DISEASE	93.856	5 T32 AI07531-08		147,990
TRAINING PROGRAM IN MICROBIOLOGY FOR INFECTIOUS DISEASES	93.856	5 T32 AI07161-30		163,389
TRAINING PROGRAM IN MICROBIOLOGY FOR INFECTIOUS DISEASES	93.856	5 T32 AI07161-29		26,132
TRAINING PROGRAM IN MICROBIOLOGY FOR INFECTIOUS DISEASES	93.856	5 T32 AI07161-28		2,037
VARICELLA-ZOSTER VIRUS--RECEPTORS AND INFECTIVE MECHANISMS	93.856	5 R01 AI027187-16		-2,611
Total Direct Award Programs: Nat. Inst. of Allergy & Infectious Disease				17,233,462
Nat. Inst. of Arthritis & Muscul. & Skin Disease				
DEVELOPMENT OF MULTI-PHASED SCAFFOLD FOR SOFT TISSUE TO BONEINTEGRATION	93.333	5 R21 AR052402-02		22,584

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Arthritis, Musculoskeletal and Skin Diseases Research				
ANISOTROPY + NONLINEARITY OF CARTILAGE MECHANICS	93.846	5 R01 AR046532-09		224,237
ASPECTS OF BONE QUALITY AMONG CHINESE AMERICAN WOMEN	93.846	1 K23 AR053507-01A1		99,257
BIOCHEMICAL CHARACTERIZATION OF HAIRLESS ASSOCIATED PROTEINS	93.846	5 K01 AR048594-05		35,126
BIOTRIBOLOGY OF DIARTHRODIAL JOINTS	93.846	5 R01 AR043628-13		129,459
BIPHASIC NANOFIBER-BASED SCAFFOLD FOR TENDON-TO-BONE INTEGRATION	93.846	1 R21 AR056459-01		85,910
BONE AND HORMONAL HEALTH IN PREMENOPAUSAL WOMEN WITH EPILEPSY	93.846	5 K23 AR053113-02		117,358
BONE QUALITY IN PREMENOPAUSAL WOMEN WITH IDIOPATHIC FRAGILITY FRACTURES	93.846	1 K23 AR054127-01A1		106,636
CELL CYCLE REGULATORY PROTEINS IN UVB-SKIN CARCINOGENES	93.846	5 K01 AR048582-05		24,123
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	COC	138,985
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	COB	124,797
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	COA	112,585
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	COD	89,891
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	PF3	62,106
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	PF2	33,719
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	PF2	29,108
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR044535-07 PF	PF5	27,987
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-07	PF4	24,861
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	COD	11,804
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	COB	11,237
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	PF2	6,378
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	COA	5,802
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	PF4	4,949
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	COC	4,582
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	PF1	1,381
COLUMBIA UNIVERSITY SKIN DISEASE RESEARCH CENTER	93.846	5 P30 AR44535-06	PF3	1,002
FUNCTIONAL ANALYSIS OF THE CYLD TUMOR SUPPRESSOR	93.846	5 K08 AR050273-03		113,454
FUNCTIONAL ANALYSIS OF THE HAIRLESS PROTEIN	93.846	2 R01 AR047338-06A2		333,763
FUNCTIONAL ANALYSIS OF THE HAIRLESS PROTEIN	93.846	FUNCTIONAL ANALYSIS SUP		68,544
GENETIC ANALYSIS OF ALOPECIA AREATA	93.846	5 R01 AR05257902		413,176
GENETIC MECHANISMS IN SKIN DISEASES	93.846	5 T32 AR007605-10		31,186
GENOME WIDE ASSOCIATION STUDIES IN ALOPECIA AREATA	93.846	1 R01 AR056016-01A1		506,084
GENOME-WIDE ENU MUTAGENESIS SCREEN FOR RUNX2 MODIFIERS	93.846	5 R21 AR052706-03		22,705
HORMONAL CONTROL OF PERIOSTEAL EXPANSION	93.846	1 R01 AR054447-01A2		264,423
IDIOPATHIC OSTEOPOROSIS IN PREMENOPAUSAL WOMEN	93.846	5 R01 AR049896-04		438,276
IDIOPATHIC OSTEOPOROSIS IN PREMENOPAUSAL WOMEN	93.846	5 R01 AR049896-05		57,792
IDIOPATHIC OSTEOPOROSIS IN PREMENOPAUSAL WOMEN	93.846	5 R01 AR049896-02		9,168
IDIOPATHIC OSTEOPOROSIS IN PRE-MENOPAUSAL WOMEN	93.846	5 K24 AR052665-03		194,819
INTERFACE TISSUE ENGINEERING FOR SOFT TISSUE-TO-BONE INTEGRATION	93.846	1 R01 AR055280-01A2		131,834
MECHANISMS OF PROCESSIVITY IN MOLECULAR MOTORS	93.846	5 R01 AR048565-06		442,713

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MOLECULAR GENETICS OF THE KERATODERMAS	93.846	5 R01 AR44924-09		317,374
NEUROCOGNITIVE FUNCTION IN CHILDHOOD-ONSET SLE--CSLE	93.846	1 K23 AR053202-01A2		128,824
OPTICAL TOMOGRAPHY FOR THE DIAGNOSIS OF JOINT DISEASES	93.846	5 R01 AR046255-07	PR	234,251
OPTICAL TOMOGRAPHY FOR THE DIAGNOSIS OF JOINT DISEASES	93.846	5 R01 AR046255-06	A	5,997
OSTEOBLAST COMMITMENT AND DIFFERENTIATION BY ANGELS	93.846	5 R01 AR051187-04		192,001
OSTEOCALCIN AS A REGULAR OF ENERGY METABOLISM	93.846	2 R01 AR045548-09A1		606,470
PATHOGENESIS OF EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.846	5 R01 AR048997-05		89,047
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	5 R01 AR046568-07	PR	64,602
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	5 R01 AR046568-07	A2	18,964
PHYSIOLOGIC LOADING FOR CARTILAGE TISSUE ENGINEERING	93.846	5 R01 AR046568-07	A1	6,153
ROLE OF BETA 1 CONTAINING INTEGRINS IN CUTANEOUS BASEMENT MEMBRANE ORGANIZATION	93.846	1 R03 AR054022-01A2		69,777
ROLE OF L-3 PHOSPHOSERINE PHOSPHATASE IN EPIDERMAL ADOPTOS AND CARCINOGENESIS	93.846	5 F32 AR055007-02		41,306
ROLE OF L-3 PHOSPOSERINE PHOSPHATASE IN EPIDERMAL GROWTH	93.846	5 R03 AR054071-02		79,276
SIRTUIN/FOXO SIGNALING IN THE REGULATION OF BONE MASS	93.846	1 R01 AR055931-01A1		342,220
THE REGULATION OF KERATINOCYTE STEM CELLS	93.846	5 R01 AR052713-02		187,355
TRANSCRIPTIONAL REGULATION IN THE HAIRLESS PATHWAY	93.846	5 K01 AR049819-03		116,028
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPROSIS TRIALS	93.846	1 U01 AR055068-01		22,579
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPOROSIS TRIALS	93.846	5 U01 AR055068-02		161,113
ULTRA-HIGH RESOLUTION PQCT AS A BIOMARKER OF BONE STRENGTH IN OSTEOPROSIS TRIALS	93.846	5 U01 AR055068-02 GU GUO		10,176
Total Direct Award Programs: Nat. Inst. of Arthritis & Muscul. & Skin Disease				7,257,314
National Cancer Institute				
Mental Health Research Grants				
INDIA BILATERAL COLLABORATIVE RES ON PREVENTION OF HIV/AIDS	93.242	1 R34 MH078719-01A1	A	4,109
REDUCING TEEN RISKY BEHAVIOR: A CLINIC-BASED APPROACH	93.242	1 R34 MH078719-01A1		240,862
ROLE OF ALPHA6BETA4 INTEGRIN IN EPIDERMAL CARCINOGENESIS	93.386	5 R01 CA114014-02		296,118
GL OR SL ADDITIONAL ACCOUNT INFORMATION	93.390	5 U54 CA121852-03	C21	24,094
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORK	93.390	5 U54 CA121852-04 C2	C22	123,767
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04		1,234,829
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C21	330,753
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C36	278,050
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C24	235,219
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C12	213,752
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C14	164,276

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NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C31	161,983
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C11	147,847
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	PRI	141,032
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C33	123,749
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C32	104,584
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C24	83,730
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C12	81,328
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C14	52,281
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C34	32,199
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C35	18,407
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C33	18,224
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C22	17,036
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C31	16,099
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C11	11,545
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C34	9,643
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-03	C13	-5,362
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-02	C32	-9,590
NATIONAL CENTER FOR MULTI-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	C13	72,678
NATIONAL CENTER FOR MUTIL-SCALE STUDY OF CELLULAR NETWORKS	93.390	5 U54 CA121852-04	S38	95,082
Cancer Cause and Prevention Research				
BARDI PHOSPHORYLATION IN BREAST AND OVARIAN CANCER	93.393	5 R01 CA113891-02		262,466
CHK2 AS A TARGET FOR REGULATING IN SKIN NEOPLASIA	93.393	1 R03 CA125855-01A1		76,013
COLUMBIA - GHI CONSORTIUM FOR CLAIMS-BASED CANCER STUDIES	93.393	5 R21 CA114064-02		52,504
DETERMINANTS AND RISKS OF USE AND OVERUSE OF EXPENSIVE ONCOLOGY DRUGS	93.393	1 R01CA134964-01		170,593
FOLATE DEFICIENCY, METABOLISM & SPORADIC RETINOBLASTOMA	93.393	5 R01 CA098180-04		390,170
FOLIC ACID AND CREATINE AS THERAPEUTIC APPROACHES FOR LOWERING BLOOD ARSENIC	93.393	1 R01 CA133595-01A1		3,847
IMPROVING USE OF CIS IN THE UNDERSERVED THROUGH MOBILE ACCESS & DECISION SUPPORT	93.393	5 R21 CA126325-02		48,593
MOLECULAR BASIC FOR SPITZOID TUMORS	93.393	1 R03 CA133925-01		72,542
MOLECULAR EPIDEMIOLOGY AND LUNG CANCER: A NESTED CASE-CONTROL STUDY	93.393	1 R01 CA127532-01A1		499,918
MOLECULAR MECHANISMS & IMPORTANCE OF OXIDATIVE STRESS IN ESTROGEN-INDUCED CARCINOGENESIS	93.393	1 R01 CA109551-02		216,270
MOLECULAR MECHANISMS & IMPORTANCE OF OXIDATIVE STRESS IN ESTROGEN-INDUCED CARCINOGENESIS	93.393	3 R01 CA109551-03	S1	6,590
ONCOGENIC ROLE OF PIK3CA HOTSPOT MUTATIONS	93.393	1 R01 CA129432-01A2		112,613
REGULATION OF P53 TUMOR SUPPRESSOR PROTEIN	93.393	5 R37 CA58316-15		-63,037
ROLE OF INFLAMMATION IN MOUSE MODELS OF GASTRIC CANCER	93.393	5 R01 CA093405-09		618,590
STEM CELLS AND GASTRIC CANCER	93.393	5 R01 CA120979-02		556,153
TELOMERE DYSFUNCTION, OXIDATIVE DAMAGE AND BREAST CANCER	93.393	5 R03 CA125768-02		17,930
A NEW DEOXYRIBUNUCLEIC ACID REPAIR PATHWAY FOR CARCINOGENIC ULTRAVIOLET ADDUCTS	93.393	5 R01 CA072647-09	SC1	-1,162
A NEW DEOXYRIBUNUCLEIC ACID REPAIR PATHWAY FOR CARCINOGENIC ULTRAVIOLET ADDUCTS	93.393	5 R01 CA072647-09		-2,682
AIDS ASSOCIATED LYMPHOPROLIFERATIVE DISORDERS	93.393	4 R37 CA037295-24		392,530

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CANCER AND CELL LINAGES FROM HAIR FOLLICLE STEM CELLS	93.393	5 R01 CA097957-05	SUP	9,353
CANCER AND CELL LINAGES FROM HAIR FOLLICLE STEM CELLS	93.393	5 R01 CA097957-05	SC1	893
CANCER AND CELL LINEAGES FROM HAIR FOLLICLE STEM CELLS	93.393	5 R01 CA097957-05		-10,222
CONSTRUCTION AND ANALYSIS OF RETROVIRUS MUTANTS	93.393	5 R37 CA30488-28		126,084
CONSTRUCTION AND ANALYSIS OF RETROVIRUS MUTANTS	93.393	4 R37 CA030488-29		43,911
EARLY DETERMINANTS OF MAMMOGRAPHIC DENSITY	93.393	5 R01 CA104842-04		546,032
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-15		617,927
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-15	SC1	79,634
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-14		4,024
METROPOLITAN NEW YORK REGISTRY OF BREAST CANCER FAMILIES	93.393	5 U01 CA069398-14	SC1	2,200
MOLECULAR PATHOGENESIS OF UVB-INDUCED SKIN CANCER	93.393	5 R01 CA105136-04		274,010
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-17	PJ2	490,920
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-17	PJ1	436,458
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-17	PJ3	329,713
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-17 TE TEC		241,192
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-17		154,643
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-16		30,687
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-16	PJ1	20,864
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-16	PJ3	20,709
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-16	TEC	12,418
RADIATION BYSTANDER EFFECTS: MECHANISMS	93.393	5 P01 CA049062-16	PJ2	2,475
REGULATION OF THE DNA DAMAGE RESPONSE BY THE MRN-ATM PATHWAY	93.393	2 R01 CA092245-06		253,918
THE ROLE OF PARC IN THE P53 PATHWAY	93.393	5 R01 CA104843-04		57,904
Cancer Detection and Diagnosis Research				
ENHANCED INTRAARTERIAL DELIVERY OF CHEMOTHERAPEUTIC DRUGS TO THE BRAIN	93.394	1 R01 CA127500-01A2		281,669
ADHERENCE TO A LOW-FAT DIET IN AFRICAN AMERICAN ADOLESCENTS	93.394	5 R03 CA123609-02		-2
GENOMIC AND EPIGENOMIC PROFILING BY MSNP	93.394	1 R21 CA128556-01		139,547
IN VIVO 31P MRS STUDIES OF NON-HODGKIN'S LYMPHOMA	93.394	5 R01 CA118559-02		348,161
IN VIVO 31P MRS STUDIES OF NON-HODGKIN'S LYMPHOMA	93.394	1 R01 CA118559-01A1	SC1	67,758
SMALL ANIMAL TOMOGRAPHY SYSTEM FOR GREEN FLUORESCENT PROTEIN IMAGING	93.394	4 R33 CA118666-02		108,244
SMALL ANIMAL TOMOGRAPHY SYSTEM FOR GREEN FLUORESCENT PROTEIN IMAGING	93.394	1 R21 CA118666		108,035
TECH/SCIENTIFIC SUPPORT/MGMT FOR PROJECT EFFECTS OF THE CHERNOBYL ACCIDENT ON INCIDENCE OF THYROID CANCER/LEUKEMIA	93.394	N01 CP-21178		169,641
TECH/SCIENTIFIC SUPPORT/MGMT FOR PROJECT EFFECTS OF THE CHERNOBYL ACCIDENT ON INCIDENCE OF THYROID CANCER/LEUKEMIA	93.394	N01 CP-21178	SC1	19,932
Cancer Treatment Research				
CAREGIVERS' STRENGTHS-SKILLS -- MANAGING OLDER CA PATIENTS	93.395	5 R01 CA115315-03		568,832
CAREGIVERS' STRENGTHS-SKILLS -- MANAGING OLDER CA PATIENTS	93.395	5 R01 CA115315-03	SUP	83,718
CHEMICAL GENETIC PROFILING OF ENGINEERED TUMOR CELLS	93.395	2 R01 CA097061-05A1		430,971
THERAPEUTIC SELF-ASSEMBLY OF RECOGNITION ELEMENTS ON CELL SURFACES	93.395	1 R21 CA128452-01		273,193

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ACQUIRED RESISTANCE TO VEGF BLOCKADE IN WILMS TUMOR	93.395	5 R01 CA100451-05		-5,083
CANCER RISKS ATTRIBUTABLE TO RADIATION FROM PEDIATRIC CT	93.395	5 R01 CA088974-04		-18
TOPOTECAN BY INTRACEREBRAL CLYSIS FOR BRAIN TUMORS	93.395	5 R01 CA089395-05X3		265,301
TRANSLATIONAL APPLICATIONS OF MDA-7/IL CANCER	93.395	5 P01 CA104177-03	PJ1	9,855
Cancer Biology Research				
A MOUSE MODEL FOR PROSTATE CANCER	93.396	7 U01 CA084294-09		1,255,112
A MOUSE MODEL FOR PROSTATE CANCER	93.396	7 U01 CA084294-10	SC1	454,714
DYNAMIC ROLES OF HAUSP IN P53/MDM2 REGULATION	93.396	1 R01 CA129627-01		375,117
GENES THAT INFLUENCE LIN-12/NOTCH ACTIVITY IN C. ELEGANS	93.396	5 R01 CA095389-06		40,893
GENETIC APPROACHES TO NEXT-GENERATION BREAST CANCER THERAPY	93.396	4 R00 CA127772-02		243,506
GENETIC NETWORK INFERENCE WITH COMBINATIONAL PHENOTYPES	93.396	5 R01 CA109755-03		356,417
LUNG EPITHELIAL-MESENCHYMAL INTERACTIONS IN ADENOCARCINOMA INVASION	93.396	5 R01 CA120174-02		298,422
MECHANISMS OF MDM2/MDMX IN REPRESSING P53	93.396	1 R01 CA131439-01A2		56,403
MECHANISMS OF T-CELL LEUKEMOGENESIS INDUCED BY NOTCH1	93.396	5 R01 CA120196-3		94,718
MODELING ANDROGEN-INDEPENDENT PROSTATE CANCER IN MUTANT MICE	93.396	7 R01 CA115717-02		483,457
ORGANIZING 14TH INTERNATIONAL P53 MEETING	93.396	1 R13 CA138146-01		6,500
PAC1 SIGNALING APOPTOSIS AND TUMOR SUPPRESSION	93.396	5 R01 CA102447-04		328,766
PROPERTIES AND REGULATION OF P53 IN TUMOR CELLS	93.396	3 R01 CA077742-09		-44,968
PROTOONCOGENES--SIGNALING IN DEVELOPMENT AND NEOPLASIA	93.396	5 P01 CA023767-29	PJ2	157,954
PROTOONCOGENES--SIGNALING IN DEVELOPMENT AND NEOPLASIA	93.396	5 P01 CA023767-29	PJ4	116,097
PROTOONCOGENES--SIGNALING IN DEVELOPMENT AND NEOPLASIA	93.396	5 P01 CA023767-29R1		98,444
PROTOONCOGENES--SIGNALING IN DEVELOPMENT AND NEOPLASIA	93.396	5 P01 CA023767-29	PJ3	76,942
PROTOONCOGENES--SIGNALING IN DEVELOPMENT AND NEOPLASIA	93.396	5 P01 CA023767-29	PJ1	62,043
REGULATION OF THE P53 TUMOR SUPPRESSOR PROTEIN	93.396	NCI CU07-1451		557,278
ROLE OF TGFBI GENE IN CELL PROLIFERATION AND TUMOR PROGRESSION	93.396	1 R01 CA127120-01A2		330,132
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-08		557,787
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-08	COR	322,620
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-08	PRI	234,315
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-07		167,674
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-08	COR	66,721
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-07	A1	61,610
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-07	A2	27,492
ROLES AND REGULATION OF P53	93.396	5 P01 CA087497-07	A3	2,079
ROLES OF NKX3.1 IN PROSTATE DEVELOPMENT CANCER	93.396	7 R01 CA076501-11		104,636
THE ROLE OF AKT SIGNALING IN NOTCH1 INDUCED LEUKEMIAS	93.396	1 R01 CA129382-01A1		270,111
THE ROLE OF ARF-BP1 IN TUMORIGENESIS	93.396	5 R01 CA118561-03		252,715
THE ROLE OF BRCA1/BARD1 IN BASAL-LIKE BREAST CANCER	93.396	1 R01 CA137023-01A1		7,824
THE TUMOR-SUPPRESSIVE ROLE OF ALK4/ACVR1B IN PANCREATIC TUMORIGENESIS	93.396	1 R21 CA127701-01A2		157,881
THE UREB-1 UBIQUITIN LIGASE IN NEURAL STEM CELLS AND CANCER	93.396	1 R01 CA131126-01A1		231,940

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TRANSCRIPTIONAL REGULATION OF C-FOS & IMMEDIATE EARLY GENES	93.396	5 R01 CA050329-15		433,967
TRANSCRIPTIONAL REGULATION OF C-FOS AND IMMEDIATE EARLY GENES	93.396	3 R01 CA050329-15S2	HEN	54,706
USING SYNTHETIC DOSAGE LETHALITY TO SCREEN FOR NOVEL ANTI-TUMOR TARGETS	93.396	1 R33 CA125520-01		404,235
USING SYNTHETIC DOSAGE LETHALITY TO SCREEN FOR NOVEL ANTI-TUMOR TARGETS	93.396	5 R33 CA125520-03	SUP	21,065
VEGF BLOCKADE AND ALTERNATIVE ANGIOGENIC PATHWAYS IN NEUROBLASTOMA	93.396	1 R01 CA124644-01		326,539
ANALYSIS OF PROGRESSION OF THE TRANSFORMED PHENOTYPE	93.396	5 R01 CA035675-21		-30
INHIBITOR OF DIFFERENTIATION-2 IN CELL CYCLE REGULATION AND CANCER	93.396	5 R01 CA085628-08		316,856
MOLECULAR ANALYSIS OF METATATIC PROSTATE CANCER IN MICE	93.396	7 R01 CA115985-04		139,917
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	PJ4	182,979
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	PJ6	178,266
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	PJ5	105,443
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	COB	84,150
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	PJ3	81,928
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05		14,871
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	PJ2	5,916
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	PJ1	3,930
MOLECULAR PATHOGENESIS OF BREAST CANCER	93.396	5 P01 CA097403-05	COC	3,447
MOUSE MODELS FOR HUMAN PANCREATIC DUCTAL ADENOCARCINOMA	93.396	5 R01 CA109525-04		187,971
NOVEL APPROACHES FOR PANCREATIC CANCER THERAPY	93.396	5 R01 CA098712-05		2,038
P53 ACETYLATION AND DEACETYLATION IN TUMORIGENESIS	93.396	2 R01 CA085533-06A2		267,710
PTEN TUMOR SUPPRESSOR AND SIGNAL TRANSDUCTION	93.396	5 R01 CA082783-08		371,780
ROLE OF B-CELL LYMPHOMA (BCL6) MUTATION IN LYMPHOMAGENESIS	93.396	5 R01 CA107489-04		179,590
ROLE OF CYCLIN IN MYELOID LEUKEMIA	93.396	5 R01 CA093693-04		-45,216
ROLE OF MAMMALIAN SIR2A IN APOPTOSIS & CELL SENESCENCE	93.396	5 R01 CA098821-05		185,518
WT1 AND BETA-CATENIN TRAGETS IN WILM'S TUMORS	93.396	5 R01 CA102270-05		94,346
Cancer Centers Support Grants				
BIOMARKERS RESOURCE	93.397	2 P30 CA013696-35	SC8	115,666
BIOMEDICAL INFORMATICS	93.397	2 P30 CA013696-35	SC1	232,828
BIOSTATICS RESOURCE	93.397	2 P30 CA013696-35	SC1	156,501
CANCER CENTER SUPPORT GRANT (ADMINISTRATION)	93.397	2 P30 CA013696-35		1,052,401
CLINICAL RESEARCH MANAGEMENT OFFICE	93.397	2 P30 CA013696-35	SC1	280,663
CONFOCAL AND SPECIALIZED MICROSCOPY	93.397	2 P30 CA013696-35	SC1	90,786
DATA AND SAFETY MONITORING	93.397	2 P30 CA013696-35	SC1	49,446
FLOW CYTOMETRY RESOURCE	93.397	2 P30 CA013696-35	SC3	138,725
GENOMICS TECHNOLOGIES RESOURCE	93.397	2 P30 CA013696-35	SC2	98,732
INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR CALIFANO	93.397	5 P30 CA013696-34	SC1	-614
INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR GAUTIER	93.397	5 P30 CA013696-34	SC9	166
INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR LUDWIG	93.397	5 P30 CA013696-34	SC5	25,984
INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR MAO	93.397	5 P30 CA013696-34	S23	51,423

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INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR OWEN O'CONNOR	93.397	5 P30 CA013696-34 S2 S20		54,345
INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR TYCKO	93.397	5 P30 CA013696-34 SC1		32,863
INTER-PROGRAMMATIC PILOT PROJECT AWARD FOR PARSONS	93.397	5 P30 CA013696-34 SC		37,891
INTRA-PROGRAMMATIC PILOT PROJECT AWARD FOR SHEN AND TERRY	93.397	5 P30 CA013696-34 S17		95,152
INTRA-PROGRAMMATIC PILOT PROJECT AWARD FOR STOCKWELL AND CORNISH	93.397	5 P30 CA013696-34 SC SC1		5,505
MOLECULAR PATHOLOGY RESOURCE	93.397	2 P30 CA013696-35 SC4		211,507
NATIONAL CENTER: MULTI-SCALE STUDY-CELLULAR NETWORKS	93.397	5 U54 CA121852-04 35		64,527
NATIONAL CENTER: MULTI-SCALE STUDY-CELLULAR NETWORKS (RMI)	93.397	3U54CA121852-04S1		88,056
NATIONAL CENTER: MULTI-SCALE STUDY-CELLULAR NETWORKS (RMI)	93.397	5 U54 CA121852-04R1		83,121
PROTEOMICS RESOURCE	93.397	2 P30 CA013696-35 SC6		56,610
PROTOCOL REVIEW AND MONITORING SYSTEM	93.397	2 P30 CA013696-35 SC1		217,192
PROTOCOL SPECIFIC RESERACH SUPPORT	93.397	2 P30 CA013696-35 SC1		75,576
RADIATION RESEARCH RESOURCE	93.397	2 P30 CA013696-35 SC7		86,505
RESEARCH RECRUITMENT AND MINORITY OUTREACH RESOURCE	93.397	2 P30 CA013696-35 SC9		94,757
TRANSGENIC MOUSE RESOURCE	93.397	2 P30 CA013696-35 SC5		502,098
BIOSTATISTICS CORE	93.397	5 U54 CA101598-05 BSC		62,254
CANCERS IN OLDER MINORITY POPULATIONS - CARIBBEAN AMERICAN EMPHASIS	93.397	5 U54 CA101598-05		55,658
CONFOCAL MICROSCOPY	93.397	5 P30 CA013696-34 SC4		35,482
DEVELOPMENT CORE	93.397	5 U54 CA101598-05 DEC		192,778
DEVELOPMENT CORE	93.397	5 U54 CA101598-03 DEC		319
PILOT PROJECT - 1	93.397	5 U54 CA101598-05 PP8		25,431
PILOT PROJECT - 2	93.397	5 U54 CA101598-05 PP9		4,015
PILOT PROJECT - 4	93.397	5 U54 CA101598-05 P11		28,790
PILOT PROJECT 3	93.397	5 U54 CA101598-03 PP3		10
PILOT PROJECT 5	93.397	5 U54 CA101598-05 P12		29,013
PILOT PROJECT 6	93.397	5 U54 CA101598-05 PP6		24,163
PILOT PROJECT 8	93.397	5 U54 CA101598-05 PP1		39,425
PLANNING AND EVALUATION CORE	93.397	5 U54 CA101598-05 PEC		117,611
PROJECT #7	93.397	5 U54 CA101598-05 PJ2		26,189
RECRUITMENT CORE	93.397	5 U54 CA101598-05 RMC		2,792
Cancer Research Manpower				
A PILOT STUDY OF STATIN THERAPY AND RISK OF MALIGNANT GLIOMA	93.398	1 K07 CA127468-01A1		95,009
ANALYSIS OF BRCA1 E3 UBIQUITIN LIGASE & PHOSHOPEPTIDE BINDING ACTIVITY	93.398	5 F31CA132626-02		23,179
BETA-CATENIN AS A TUMOR SUPPRESSOR IN SARCOMAGENESIS	93.398	7 F32 CA124078-02		33,435
NOVEL APPROACH TO WHOLE GENOME METHYLATION PROFILING OF BREAST CANCER	93.398	1K99 CA127360-01A1		74,896
THE ROLE OF DKK1, A WNT-INHIBITOR, IN MESENCHYMAL DIFFERENTIATION/SARCOMAGENESIS	93.398	1 K08 CA132986-01A1		62,070
CANCER EPIDEMIOLOGY, BIostatISTICS AND ENVIRONMENTAL SCIENCES	93.398	2 T32 CA009529-21A1		302,465
CELL, MOLECULAR AND DEVELOPMENTAL BIOLOGY OF CANCER	93.398	2 T32 CA009503-22		341,928
CELL, MOLECULAR AND DEVELOPMENTAL BIOLOGY OF CANCER	93.398	2 T32 CA009503-21A1		159,974

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CELL, MOLECULAR AND DEVELOPMENTAL BIOLOGY OF CANCER	93.398	5 T32 CA009503-20		-44,327
OSTEOPOROSIS PREVENTION IN EARLY STAGE BREAST CANCER--A RANDOMIZED TRIAL	93.398	5 K07 CA095597-05		76
Biomedical Research and Research Training				
THE MRAD9 RADIORESISTANCE GENE	93.859	5 R01 GM07917-06		287,711
Total Direct Award Programs: National Cancer Institute				31,758,298

Nat. Inst. of Dental & Craniofacial Rsch.

Oral Diseases and Disorders Research

ATF4 A NOVEL REGULATOR OF OSTEOBLAST BIOLOGY	93.121	5 R01 DE011290-14		339,235
BISPHOSPHONATES AND ORAL COMPLICATIONS OF CANCER CHEMOTHERAPY--A PILOT STUDY	93.121	5 R21 DE017164-02		128,658
CRANIOFACIAL TISSUE ENGINEERING	93.121	5 R01 DE016525-03		423,821
DIABETES MELLITUS, PERIODONTAL DISEASE, CHILDREN AND ADOLESCENTS	93.121	5 R01 DE014898-05		3,343
DIABETES MELLITUS, PERIODONTAL DISEASE, CHILDREN AND ADOLESCENTS	93.121	5 R01 DE014898-05	SC1	775
GENE EXPRESSION SIGNATURES IN CHRONIC AND AGGRESSIVE PERIODONTITIS	93.121	5 R01 DE0156949-03		48,354
MECHANOTRANSDUCTION IN MANDIBULAR TISSUE ENGINEERING	93.121	5 R03 DE016338-03		-3,163
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-08		1,028,408
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-09		195,888
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-08	SC1	104,823
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-09	SC1	18,355
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-05	SC1	7,555
ORAL INFECTIONS, CAROTID ATHEROSCLEROSIS AND STROKE	93.121	5 R01 DE013094-05		7,087
PERIODONTAL INFECTIONS AND TYPE 2 DIABETES MELLITUS RISK	93.121	1 K99 DE018739-01A1		80,969
PERIODONTITIS, ATHEROSCLEROSIS AND THE HOST RESPONSE	93.121	5 R01 DE014575-05		305,986
RAGE, INFLAMMATION AND TEMPOROMANDIBULAR JOINT DISORDERS	93.121	5 R01 DE015412-04		294,220
SOCIAL INEQUALITIES IN PERIODONTAL DISEASES	93.121	5 K22 DE015317-04		2,784
STEM CELL-DRIVEN REGENERATION OF THE MANDIBULAR JOINT	93.121	5 R01 DE015391-05		136,965
STEM CELL-DRIVEN REGENERATION OF THE MANDIBULAR JOINT	93.121	7 R01 *NIDCR CU5222 SC1		7,111
TIGHT ADHERENCE GENES OF A PERIDONTAL PATHOGEN	93.121	5 R01 DE014713-05		45,435
Total Direct Award Programs: Nat. Inst. of Dental & Craniofacial Rsch.				3,176,609

Nat. Inst. of Environmental Health Sciences

GENETIC POLYMORPHISM IN PROSTATE CANCER	93.000	7 R01 *NIEHS CU5228		41,992
RESEARCH STUDY TO SUMMARIZE ASSESSMENT OF POPULATION IN PROXIMITY OF SUPERFUND NATIONAL PRIORITY LIST SITES	93.000	HHNSN273200800139P		5,082

Environmental Health

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ADMIN CORE/DIRECTOR'S FUND	93.113	2 P30 ES009089-10	S1	80,500
ADMIN CORE/DIRECTOR'S FUND	93.113	5 P30 ES009089-11	S1	1,923
ASSESS THE EFFECTS OF PRE- AND POSTNATAL EXPOSURE TO THE ORGANOPHOSPHORUS	93.113	1 R01 ES015579-01A2		14,221
CAREER DEVELOPMENT	93.113	2 P30 ES009089-10	SC1	23,937
CCCEH - ASTHMA CORE	93.113	5 P01 ES009600-10	PJ5	33,463
CCCEH - ASTHMA SCOPE: MEDICINE	93.113	5 P01 ES009600-10	PJ9	60,649
CCCEH - COTAC CORE	93.113	5 P01 ES009600-10	PJ6	31,695
CCCEH - DATA CORE	93.113	5 P01 ES009600-10	PJ3	81,409
CCCEH - DEVELOPMENT PROJECT	93.113	5 P01 ES009600-10	PJ1	79,993
CCCEH - EXPOSURE ASSESSMENT CORE	93.113	5 P01 ES009600-10	PJ4	87,171
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10		225,448
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	YW	76,364
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	DK	73,264
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11		70,648
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	YW	34,547
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	S4	29,084
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	GF	16,990
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	S2	14,190
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009098-10	S2	13,819
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	S3	10,330
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	S5	9,239
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	DJ	6,893
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	MP	4,254
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	S6	1,605
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	DK	1,410
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	S4	919
CENTER FOR ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	2 P30 ES009089-10	S6	80
COLUMBIA CENTER FOR CHILDREN'S ENVIRONMENTAL HEALTH - CCCEH	93.113	5 P01 ES009600-10		33,238
COMMUNITY OUTREACH & EDUCATION CORE	93.113	2 P30 ES009089-10	SC6	137,788
COMMUNITY OUTREACH & EDUCATION CORE	93.113	5 P30 ES009089-11	SC6	3,285
CORE B - TRACE METALS LABORATORY CORE	93.113	5 P42 ES010349-07	S3	197
CORE D - HYDROGEOLOGY CORE	93.113	5 P42 ES010349-07	S15	1
CYTOPLASMIC DAMAGE AND GENOTOXICITY	93.113	5 R01 ES012888-05		269,785
ENVIRONMENTAL HEALTH IN A COHORT OF MINORITY WOMEN/INFANTS	93.113	5 R01 ES008977-09		1,918
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	DJ	4,960
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	MP	4,543
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.113	5 P30 ES009089-11	GF	2,061
EXPOSURE ASSESSMENT FACILITY CORE/LAMONT	93.113	2 P30 ES009089-10	SC4	111,656
EXPOSURE ASSESSMENT FACILITY CORE/LAMONT	93.113	5 P30 ES009089-11	SC4	4,711
EXPOSURE ASSESSMENT FACILITY CORE/MSPH	93.113	2 P30 ES009089-10	SC3	120,876

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The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
EXPOSURE ASSESSMENT FACILITY CORE/MSPH	93.113	5 P30 ES009089-11	SC3	2,905
FINDING GROUPS IN SIMULATED WFMOS DATA SETS	93.113	5 U01 ES016110-02	SPH	25,466
HEALTH EFFECTS OF EARLY-LIFE EXPOSURE TO URBAN POLLUTANTS IN MINORITY CHILDREN	93.113	2 R01 ES008977-10		1,043,777
HEALTH EFFECTS OF EARLY-LIFE EXPOSURE TO URBAN POLLUTANTS IN MINORITY CHILDREN	93.113	5 R01 ES008977-11	SC1	156,841
HEALTH EFFECTS OF EARLY-LIFE EXPOSURE TO URBAN POLLUTANTS IN MINORITY CHILDREN	93.113	5 R01 ES008977-11	SC2	18,794
INTEGRATIVE HEALTH SCIENCES FACILITY CORE	93.113	2 P30 ES009089-10	SC2	408,601
INTEGRATIVE HEALTH SCIENCES FACILITY CORE	93.113	5 P30 ES009089-11	SC2	48,787
MUTAGENICITY OF MINERAL FIBERS	93.113	5 R01 ES005786-13		76,430
NOISE EXPOSURE IN SUBWAY RIDERS	93.113	1 R21 ES015347-01A2		181,671
NUTRITIONAL INFLUENCES ON ARSENIC TOXICITY	93.113	5 R01 ES011601-04		52,703
OBESEITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	5 R01 ES014229-03		253,304
OBESEITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	5 R01 ES014229-02 SC	SC1	203,521
OBESEITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	3 R01 ES014229-04	S1	105,186
OBESEITY, PHYSICAL ACTIVITY AND BUILT SPACE IN NEW YORK CITY	93.113	5 R01 ES014229-03 SU	SUP	56,250
PHTHALATE EXPOSURE AND INNER CITY PEDIATRIC ASTHMA	93.113	1 R01 ES014393-01A2		643,927
PILOT PROJECT	93.113	2 P30 ES009089-10	MN	32,060
PILOT PROJECT	93.113	2 P30 ES009089-10	BY	2,554
PILOT PROJECT	93.113	5 P30 ES009089-11	BY	283
PILOT STUDY: FAMINE, DE NOVO MUTATIONS AND SCHIZOPHRENIA	93.113	HHSN273200700004C		96,477
PJ 7 - MITIGATION OF AS MOBILIZATION IN GROUNDWATER	93.113	5 P42 ES010349-07	S17	5,544
PJ#1- GENOTOXIC & CELL SIGNALING PATHWAYS IN MAMMALIAN CELLS	93.113	5 P42 ES010349-07	S6	-39
PJ#2 - HEALTH EFFECTS OF AS COHORT STUDY	93.113	5 P42 ES010349-07	S7	1
PJ#4- 1CARBON META, OXIDATIVE STRESS & TOXICITY IN BANGLADSH	93.113	5 P42 ES010349-07	S5	-399
PJ#4- 1CARBON METABSM OXIDATIVE STRESS & AS TOXICITY/BANGDSH	93.113	5 P42 ES010349-07	S16	-1
PRENATAL DIESEL EXPOSURE AND ADULT ONSET ASTHMA	93.113	5 R21 ES013063-03		-287
PRENATAL ORGANOCHLORIDE EXPOSURE AND MALE REPRODUCTION	93.113	5 R01 ES012231-04		267,864
PRENATAL ORGANOCHLORIDE EXPOSURE AND MALE REPRODUCTION	93.113	5 R01 ES012231-04		65,268
PRENATAL PAH EXPOSURE AND GENOME-WIDE METHYLATION IN A COHORT OF SIBLING-PAIRS	93.113	1 K99 ES017051-01		14,043
PROJECT 3 - CONSEQUENCES OF AS & MN EXPOSURE IN CHILDHOOD INTELLIGENCE	93.113	5 P42 ES010349-07	S8	-766
RAPID ALLERGENIC PARTICLE IDENTIFICATION - RAPID	93.113	1 U01 ES016074-01	SC2	-6,851
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	5 U01 ES016074-02		199,561
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	5 U01 ES016074-02	SC2	109,552
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	5 U01 ES016074-01		64,334
RAPID ALLERGENIC PARTICLE IDENTIFICATION (RAPID)	93.113	5 U01 ES016074-03		8,162
RESEARCH TRANSLATION CORE/CIESIN	93.113	5 P42 ES010349-07	S1	-68
RISK FACTORS ACCOUNTING FOR NEIGHBORHOOD DIFFERENCES IN ASTHMA PREVALENCE	93.113	1 R01 ES014400-01A2		650,955
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	1 U01 ES016110-01		38,324
SMART MINIATURIZED PERSONAL MONITORS FOR BLACK CARBON AND MULTIPLE AIR POLLUTANTS	93.113	5 U01 ES016110		628,426
SUPERFUND CONF-TRANSLATIONS BRP TRIUMPHS INTO PH PROGRAMS	93.113	5 P42 ES010349-08	S19	37,279
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S3	588,380

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The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

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THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S1	400,071
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S2	331,684
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S4	229,077
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02		187,122
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S7	186,849
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S5	119,917
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S8	111,181
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S2	63,090
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-02	S6	52,167
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S1	27,883
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S3	25,293
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S7	21,075
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S4	18,849
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S1	17,483
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03		12,446
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S5	10,838
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S7	9,711
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S2	6,407
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S4	5,359
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S6	3,849
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	5 P50 ES015905-03	S3	3,239
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S6	2,892
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01	S5	85
THE ROLE OF AIRBORNE PAHS AND DEP IN THE PATHOGENESIS OF CHILDHOOD ASTHMA	93.113	1 P50 ES015905-01		14
TRACE METALS FACILITY CORE	93.113	2 P30 ES009089-10	SC1	180,631
TRACE METALS FACILITY CORE	93.113	5 P30 ES009089-11	SC1	39,835
TRAFFIC-RELATED PARTICLE EXPOSURES AMONG NYC YOUTHS	93.113	5 R01 ES011379-05		79,830
TRAFFIC-RELATED PARTICLE EXPOSURES AMONG NYC YOUTHS	93.113	5 R01 ES011379-05	SC1	5,751
URBAN DIESEL EXPOSURE AND INNER CITY ASTHMA	93.113	5 R01 ES013163-03		604,805
URBAN DIESEL EXPOSURE AND INNER CITY ASTHMA	93.113	5 R01 ES013163-02	SC1	66,527
BIOLOGICAL MARKERS OF AFLATOXIN EXPOSURE	93.115	5 R01 ES005116-17		315,336
PRENATAL EXPOSURES AND PROCARCINOGENIC MUTATIONS IN NEWBORNS	93.115	5 R01 ES012732-04		253,868
PRENATAL ORGANOCHLORINES, THYROID AND CHILDHOOD GROWTH AND DEVELOPMENT	93.115	5 R01 ES012460-03	S1	204,232
PRENATAL ORGANOCHLORINES, THYROID AND CHILDHOOD GROWTH AND DEVELOPMENT	93.115	5 R01 ES012460-03		-152,110
PRENATAL PHTHALATES, PLACENTAL FUNCTION AND FETAL GROWTH	93.115	5 R01 ES013543-03		358,421
PRENATAL PHTHALATES, PLACENTAL FUNCTION AND FETAL GROWTH	93.115	5 R01 ES013543-03	SC1	39,734

NIEHS Superfund Hazardous Substances_Basic Research and Education

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The Trustees of Columbia University in the City of New York
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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
CORE A - DATA MANAGEMENT CORE	93.143	5 P42 ES010349-08	S2	122,142
CORE A - DATA MANAGEMENT CORE	93.143	5 P42 ES010349-09	S2	32,380
CORE B - TRACE METALS LABORATORY CORE	93.143	5 P42 ES010349-08	S3	280,992
CORE B - TRACE METALS LABORATORY CORE	93.143	5 P42 ES010349-09	S3	67,327
CORE C - BIOCHEMISTRY CORE	93.143	5 P42 ES010349-08	S14	178,011
CORE C - BIOCHEMISTRY CORE	93.143	5 P42 ES010349-09	S14	71,854
CORE D - HYDROGEOLOGY CORE	93.143	5 P42 ES010349-08	S15	144,527
CORE D - HYDROGEOLOGY CORE	93.143	5 P42 ES010349-09	S15	21,176
CORE E - TRAINING CORE	93.143	5 P42 ES010349-08	S4	42,386
CORE E - TRAINING CORE	93.143	5 P42 ES010349-09	S4	3,715
HEALTH EFFECTS AND GEOCHEMISTRY OF ARSENIC AND MANGANESE	93.143	5 P42 ES010349-08		131,296
HEALTH EFFECTS AND GEOCHEMISTRY OF ARSENIC AND MANGANESE	93.143	5 P42 ES010349-09		32,739
PJ 7 - MITIGATION OF AS MOBILIZATION IN GROUND WATER	93.143	5 P42 ES010349-08	S17	253,328
PJ 7 - MITIGATION OF AS MOBILIZATION IN GROUND WATER	93.143	5 P42 ES010349-09	S17	30,556
PJ1- GENOTOXIC & CELL SIGNALING PATHWAYS IN MAMMALIAN CELLS	93.143	5 P42 ES010349-08	S6	166,223
PJ1- GENOTOXIC & CELL SIGNALING PATHWAYS IN MAMMALIAN CELLS	93.143	5 P42 ES010349-09	S6	25,082
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY	93.143	5 P42 ES010349-08	S7	173,707
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY	93.143	5 P42 ES010349-09	S7	13,514
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY - BANGLADESH	93.143	5 P42 ES010349-08	S10	330,765
PJ2 - HEALTH EFFECTS OF AS COHORT STUDY - BANGLADESH	93.143	5 P42 ES010349-09	S10	68,387
PJ3 - CONSEQUENCES OF AS & MN EXPOSURE IN CHILDHOOD INTELLIGENCE	93.143	5 P42 ES010349-08	S8	343,318
PJ3 - CONSEQUENCES OF AS & MN EXPOSURE IN CHILDHOOD INTELLIGENCE	93.143	5 P42 ES010349-09	S8	68,023
PJ3 -CONSEQUENCES OF AS & MN EXPO IN CHILDHOOD INTEL/BANGDSH	93.143	5 P42 ES010349-08	S9	16,030
PJ3 -CONSEQUENCES OF AS & MN EXPO IN CHILDHOOD INTEL/BANGDSH	93.143	5 P42 ES010349-09	S9	4,307
PJ4 -1 CARBON METABSM, OXIDATIVE STRESS & AS TOXICITY/BANGDSH	93.143	5 P42 ES010349-08	S16	26,625
PJ4 -1 CARBON METABSM, OXIDATIVE STRESS & AS TOXICITY/BANGDSH	93.143	5 P42 ES010349-09	S16	1,444
PJ4-1 CARBON META, OXIDATIVE STRESS & TOXICITY IN BANGLADESH	93.143	5 P42 ES010349-08	S5	119,739
PJ4-1 CARBON META, OXIDATIVE STRESS & TOXICITY IN BANGLADESH	93.143	5 P42 ES010349-09	S5	41,472
PJ5 - MOBILIZATION OF NATURAL AS & MN IN GROUND WATER	93.143	5 P42 ES010349-08	S11	155,990
PJ5 - MOBILIZATION OF NATURAL AS & MN IN GROUND WATER	93.143	5 P42 ES010349-09	S11	41,570
PJ6 - MOBILIZATION OF ANTHROPOGENIC AS IN GROUND WATER	93.143	5 P42 ES010349-08	S13	134,653
PJ6 - MOBILIZATION OF ANTHROPOGENIC AS IN GROUND WATER	93.143	5 P42 ES010349-09	S13	45,542
RESEARCH TRANSLATION CORE - CIESIN	93.143	5 P42 ES010349-08	S1	65,564
RESEARCH TRANSLATION CORE - CIESIN	93.143	5 P42 ES010349-09	S1	19,725
RESEARCH TRANSLATION CORE - LDEO	93.143	5 P42 ES010349-08	S12	46,254
RESEARCH TRANSLATION CORE - LDEO	93.143	5 P42 ES010349-09	S12	21,937
ENVIRONMENTAL HEALTH IN NORTHERN MANHATTAN	93.894	5 P30 ES009089-09	PP4	1,635
INTEGRATIVE HEALTH SCIENCES FACILITY CORE	93.894	5 P30 ES009089-08	SC2	-1,016

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The Trustees of Columbia University in the City of New York

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
INTERDISCIPLINARY TRAINING IN ENVIRONMENTAL HEALTH	93.894	5 T32 ES007322-08		99,873
PILOT PROJECT	93.894	5 P30 ES009089-09	PJ5	-159
TRACE METALS FACILITY CORE	93.894	5 P30 ES009089-08	SC1	-494
Total Direct Award Programs: Nat. Inst. of Environmental Health Sciences				15,190,537
National Eye Institute				
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 EY015835-03		311,823
3 R011 EY012536-09S1	93.867	3 R011 EY012536-09S1		104,314
A NOVEL TREATMENT FOR KERATOCONUS AND KERATECTASIAS USING NITRO TECHNOLOGY	93.867	1 R21 EY018937-01A1		104,761
ANTICIPATORY HEMODYNAMIC SIGNALS IN PRIMARY VISUAL CORTEX	93.867	1 R01 EY019500-01		40,822
BIOMEDICAL IMAGE ENGINEERING OF MACULAR IMAGES	93.867	5 R01 EY015520-03		312,773
BIOMEDICAL IMAGE ENGINEERING OF MACULAR IMAGES	93.867	5 R01 EY015520-03	SC1	114,519
BIOMEDICAL IMAGE ENGINEERING OF MACULAR IMAGES	93.867	5 R01 EY015520-03	SC2	87,929
CALORIC RESTRICTION AND AGING IN EYES	93.867	5 R01 EY015293-03		297,830
GENETIC VARIATION IN AGE-RELATED MACULAR DEGENERATION	93.867	5 R01 EY013435-07		200,770
GROWTH AND GUIDANCE OF RETINAL AXONS	93.867	2 R01 EY012736-20A1		43,944
GROWTH AND GUIDANCE OF RETINAL AXONS	93.867	5 R01 EY012736-19		-6,526
IMPACT OF LIPOFUSCIN IN RETINAL PIGMENT EPITHELIAL CELLS	93.867	2 R01 EY012951-08A2		248,285
INSTRUMENT DEVELOPMENT & FABRICATION FOR VISION RESEARCH	93.867	5 R24 EY015634-04		163,686
MEASURES OF HUMAN RECEPTOR AND POST RECEPTOR ACTIVITY	93.867	5 R01 EY009076-16		352,729
MODELS OF CORRELATION-BASED NEURAL DEVELOPMENT	93.867	5 R01 EY011001-13		5,976
MODELS OF CORRELATION-BASED NEURAL DEVELOPMENT	93.867	5 R01 EY011001-13	SC1	3,757
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-04		626,419
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-05		492,463
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-05	A4	111,197
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-05	A3	107,439
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-04	A4	80,406
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-05	A6	76,579
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-05	A2	70,000
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-04	A5	45,072
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-04	A3	12,228
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-04	A6	7,076
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-05	A5	1,560
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	3 PN2 EY016586-03S2	PR	-47,604
NANOMEDICINE CENTER FOR MECHANICAL BIOLOGY (RMI)	93.867	5 PN2 EY016586-04	A1	-103,835
RETINA: THE CONTROL OF PHOTORECEPTOR CELL FATE	93.867	2 R01 EY012536-09		360,516

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The Trustees of Columbia University in the City of New York

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
RETINA: THE CONTROL OF PHOTORECEPTOR CELL FATE	93.867	5 R01 EY012536-08		1,503
STUDYING MODELS AND MECHANISMS OF OPTIC NERVE DISEASES ADAPTATION	93.867	5 R01 EY002115-31		390,483
TELEMEDICAL DIAGNOSIS OF RETINOPATHY OF PREMATURITY	93.867	5 K23 EY013972-05		70,828
THE CORTICAL REPRESENTATION OF OCULOMOTOR PROPRICEPTION	93.867	1 R21 EY017938-01		190,417
THE NEUROPHYSIOLOGY OF VISUAL SEARCH: OCULOMOTOR AND VISUAL MECHANISMS	93.867	1 R01 EY017039-01A1		441,685
THE ROLE OF ZIC GENES IN PATTERNING THE BINOCULAR PROJECTION PROJECTION	93.867	5 R01 EY015290-05		106,217
THE TUNING FOR COMPLEX VISUAL STIMULI IN PRIMARY VISUAL CORTEX	93.867	5 R01 EY013759-04		68,003
TOWARD MECHANISM- AND GENE-BASED THERAPIES FOR RETINAL DEGENERATION	93.867	1 R01 EY018213-01A2		186,891
ULTRASOUND-INDUCED DRUG DELIVERY THROUGH THE BLOOD-BRAIN BARRIER	93.867	1 R21 EY018505		241,892
USING SACCADIC ADAPTATION TO PROBE THE COORDINATE SYSTEM OF PARIETAL NEURONS	93.867	1 F32 EY018789-01A2		33,350
VISION SCIENCES TRAINING GRANT	93.867	5 T32 EY013933-07		20,767
VISION SCIENCES TRAINING GRANT	93.867	2 T32 EY013933-06		-139
VISION SCIENCES TRAINING PROGRAM	93.867	5 T32 EY013933-08		214,445
X-RAY STRUCTURAL STUDIES OF RETINAL DYSTROPHIES	93.867	5 K08 EY015540-04		142,087
IMAGING FUNCTIONAL CONNECTIVITY IN VISUAL CORTEX	93.867	5 R01 EY011787-09		13,788

Total Direct Award Programs: National Eye Institute

6,349,125

Nat. Inst. of General Medical Sciences

Mental Health Research Grants

NEUROMODULATORY EFFECTS OF GINKGOLIDES AND BILOBALIDE	93.242	5 R01 MH068817-05		-3,116
COMPUTER SYSTEM FOR FUNCTIONAL ANALYSIS OF GENOMIC DATA	93.309	5 R01 GM061372-05R1		1,907
COMPUTER SYSTEM FOR FUNCTIONAL ANALYSIS OF GENOMIC DATA	93.309	5 R01 GM061372-05R1	SC1	2,478

Cancer Cause and Prevention Research

MECHANISMS OF RADIORESISTANCE AND CELL CYCLE PROGRESSION	93.393	2 R01 GM052493-13A1		329,016
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Biomedical Research and Research Training

A STRAIN REPOSITORY FOR DICTYOSTELIUM DISCOIDEUM	93.859	2 R01 GM064432-05A1		130,732
A TRIPARTITE APPROACH TO ELUCIDATE RDH54 FUNCTION	93.859	5 F31 GM073567-04		119
ANALOGUES OF ZINC ENZYMES WITH SULFUR-RICH ACTIVE SITES	93.859	5 R01 GM046502-12		90,314
ANESTHESIOLOGY RESEARCH TRAINING	93.859	2 T32 GM008464-16		179,314
ANESTHESIOLOGY RESEARCH TRAINING	93.859	5 T32 GM008464-15		-7,881
ANOMALOUS SCATTERING STUDIES OF MACROMOLECULAR STRUCTURE	93.859	5 R01 GM34102-24		7,617
ASSEMBLY AND EXPORT OF HIV MESSENGER RIBONUCLEOPROTEINS	93.859	1 F32 GM087737-01		30,627
ASSEMBLY AND PLACEMENT OF THE CELL DIVISION RING	93.859	5 R01 GM056836-12R1		480,880
ASYMMETRIC SYNTHESIS OF MACROLIDE ANTIBIOTICS	93.859	2 R01 GM058133-09A1		161,380

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BIG MAP KINASE 1-CX 43 SIGNALING IN ISCHEMIA INJURY	93.859	5 R01 GM071485-04		355,647
BIOCHEMICAL MODEL REACTIONS	93.859	5 R01 GM018754-46		-12,405
CASP6-CASP8 MEETINGS	93.859	5 R13 GM072354-04		38,108
CELLULAR & MOLECULAR FOUNDATIONS OF BIOMEDICAL SCIENCES	93.859	5 T32 GM008798-07		-8,449
CELLULAR AND MOLECULAR FOUNDATIONS OF BIOMEDICAL SCIENCE	93.859	5 T32 GM008798-08		305,789
C-H BOND FUNCTIONALIZATION IN COMPLEX ORGANIC SYNTHESIS	93.859	2 R01 GM060326-06A2		323,148
COMPREHENSIVE ANNOTATION OF SUBCELLULAR LOCALIZATION IN ENTIRE ORGANISMS	93.859	1 R01 GM079797-01A1		462,329
COMPUTATIONAL ANALYSIS OF PROTEIN/MEMBRANE SIGNALING	93.859	7 R01 GM066147-06		307
COMPUTER STUDIES OF PROTEIN STRUCTURE AND FUNCTION	93.859	5 R01 GM030518-27		93,334
COMPUTER STUDIES OF PROTEIN STRUCTURE AND FUNCTION	93.859	2 R01 GM030518-28		80,776
CONTROL OF TRANSCRIPTION TERMINATION IN E. COLI	93.859	5 R01 GM37219-21		165,950
COOPERATION BETWEEN COMPARTMENTS DURING ORGAN GROWTH	93.859	5 F31 GM077094-03		18,140
COOPERATION BETWEEN COMPARTMENTS DURING ORGAN GROWTH	93.859	5 F31 GM077097-02		1,569
DISSECTING A COMBINED SIGNAL GRADIENT RESPONSE ELEMENT	93.859	5 F32 GM077860-03		39,446
ELUCIDATING THE MECHANISMS OF DNA RECOMBINATION	93.859	5 R01 GM074739-02		247,440
ER EXPORT AND THE QUALITY CONTROL CHECKPOINT DURING MEMBRANE PROTEIN BIOGENESIS	93.859	5 R01 GM078186-02		102,417
EXON RECOGNITION DURING CONSTITUTIVE PRE-MRNA SPLICING	93.859	5 R01 GM072740-03		279,904
EXPERIMENTALLY GUIDED RIBOSOMAL RNA MODELING	93.859	7 R01 GM055440-12		100,869
FUNCTION OF THE BROMODOMAIN PROTEIN BRDT IN SPERMATOGENESIS	93.859	1 R01 GM081767-01A2		253,331
GENETIC ANALYSIS OF NEMATODE CELL DIFFERENTIATION	93.859	5 R37 GM030997-26		853,970
GENETICS OF THE FORMATION OF REPAIR & RECOMBINATION FOCI	93.859	2 R01 GM067055-05		274,739
HEDGEHOG SIGNALING IN DROSOPHILA	93.859	5 R01 GM041815-19		451,276
HEME A AND CYTOCHROME OXIDASE BIOSYNTHESIS	93.859	2 R01 GM050187-13		226,712
HIERARCHICAL BAYES METHODS FOR SERIAL DILUTION ASSAYS	93.859	5 R01 GM074806-03		209,540
IDENTIFICATION OF HOX TARGET GENES CONTROLLING TISSUE GROWTH	93.859	1 F32 GM087047-01		20,343
INDIVIDUAL NATIONAL RESEARCH SERVICE AWARD: STRAINED SILACYCLE-MEDIATED SYNTHESIS OF BIOACTIVE RINGS	93.859	5 F32 GM077937-03		42,037
INFLUENCE OF EXTRACELLULAR MATRIX ON THE ASSEMBLY OF MECHANOSENSORY COMPLEXES	93.859	1 F32 GM083645-01A1		43,578
INTEGRATED APPROACHES TO FIND HOX- REGULATED DNA ELEMENTS	93.859	5 R24 GM074105-03		323,576
INTEGRATED APPROCHES TO FIND HOX- REGULATED DNA ELEMENTS	93.859	5 R24 GM074105-03	SC1	152,162
KINETIC DISCRIMINATION OF SUBSTRATES BY THE RIBOSOMAL BIOSYNTHETIC MACHINERY	93.859	1F31GM086126-01		44,598
MECHANISM OF HOMOLOGY SEARCH IN HOMOLOGOUS RECOMBINATION BY RAD51 AND RAD54	93.859	5 F32 GM084587-02		9,744
MECHANISM OF RENAL PROTECTION WITH VOLATILE ANESTHETICS	93.859	3 R01 GM067081-04S1	SUP	62,918
MECHANISM OF RENAL PROTECTION WITH VOLATILE ANESTHETICS	93.859	2 R01 GM067081-04	SC SC1	28,784
MECHANISM OF RENAL PROTECTION WITH VOLATILE ANESTHETICS	93.859	5 R01 GM067081-04		-1,787
MECHANISM OF SPONTANEOUS AND DSB-INDUCED REPAIR	93.859	5-R37-GM050237-16		466,929
MECHANISMS OF ALTERNATIVE SPLICING OF PRE-MRNA	93.859	5 R01 GM048259-21	PR	503,799
MECHANISMS OF ANESTHETIC EFFECTS ON TACHYKININ INDUCED AIRWAY TONE	93.859	5 R01 GM065281-6		343,707
MECHANISMS OF CELL COMPETITION THAT REGULATE GROWTH DURING DEVELOPMENT	93.859	5 R01 GM078464-02		376,385
MECHANISMS OF DOUBLE-STRAND BREAK REPAIR IN YEAST	93.859	5 R01 GM054099-11		287,124
MECHANISMS OF HOMOLOGOUS RECOMBINATION IN YEAST	93.859	5 R01 GM041784-19		439,694

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MECHANISMS OF HOMOLOGY SEARCH IN HOMOLOGUS RECOMBINATION BY RAD51 AND RAD54	93.859	1 F32 GM084587-01		35,597
MECHANISMS OF INTEGRIN-MICROTUBULE CROSS-TALK	93.859	2 R01 GM068595-05		382,248
MECHANISMS OF NUCLEAR POSITIONING AND MICROTUBULE ORGANIZATION	93.859	5 R01 GM069670-04		201,676
MECHHANISM OF RENAL PROTECTION WITH VOLATILE ANESTHETICS	93.859	2 R01 GM067081-05A1		253,547
MEDICAL SCIENTIST TRAINING PROGRAM	93.859	5 T32 GM007367-33		1,120,270
MEDICAL SCIENTIST TRAINING PROGRAM	93.859	2 T32 GM007367-32		90,623
MEDICAL SCIENTIST TRAINING PROGRAM	93.859	5 T32 GM007367-34		86,915
MEMBRANE ORGANIZATION DURING DIVISION IN FISSION YEAST	93.859	5 F32 GM077815-03		41,830
METHOTREXATE CONJUGATES: A MOLECULAR IN VIVO PROTEIN TAG	93.859	5 R01 GM071754-03	SHZ	2,205
METHOTREXATE CONJUGATES: A MOLECULAR IN VIVO PROTEIN TAG	93.859	5 R01 GM071754-04	COR	-3,300
MICROTUBULE ORGANIZATION AND NUCLEAR POSITIONING	93.859	2 R01 GM069670-05		124,906
MITOCHONDRIAL KV1.3 POTASSIUM CHANNELS AND LYMPHOCYTE APOPTOSIS IN SEPSIS	93.859	1 R01 GM086401-01		188,429
MITOCHONDRIAL MOTILITY AND INHERITANCE	93.859	5 R01 GM045735-13		260,734
MODELING HYDROPHOBIC AND HYDROPHILIC INTERACTIONS	93.859	5 R01 GM043340-17		116,912
MOLECULAR BASIS OF CADHERIN MEDIATED CELL ADHESION	93.859	2 R01 GM062270-06A2		181,345
MOLECULAR GENETICS OF CYTOPLASMIC DYEIN	93.859	2 R01 GM047434-16		596,304
MOLECULAR GENETICS OF SEGMENT IDENTITY	93.859	2 R01 GM054510-16		365,000
MOLECULAR MECHANISMS OF CARGO CAPTURE INTO ER-DERIVED TRANSPORT VESICLES	93.859	1 R01 GM085089-01		171,473
NANOSTRUCTED DEVICES FOR MEASURING CELL MECHANICS	93.859	1 R01 GM076415-01	A	68,044
NANOSTRUCTED DEVICES FOR MEASURING CELL MECHANICS	93.859	1 R01 GM076415-01	B	53,442
NANOSTRUCTED DEVICES FOR MEASURING CELL MECHANICS.	93.859	1 R01 GM076415-01		189,605
NANOSTRUCTED DEVICES FOR MEASURING CELL MECHANICS.	93.859	3 R01 GM076415-02S1	RIO	77,404
NEW APPROACH TOWARDS MAPPING OF COMPLEX HUMAN DISORDERS	93.859	5 R01 GM070789-03		159,912
NUCLEAR MAGNETIC RESONANCE STUDIES OF STRUCTURES AND DYNAMICS OF PROTEINS	93.859	5 R01 GM050291-14		301,148
OMPUTATIONAL ANALYSIS OF PHOSPHOINOSITIDE SIGNALING	93.859	5 R01 GM071700-04		253,802
PEPTIDOGLYCAN SYNTHESIS IN SPORULATION	93.859	1 R01 GM081368-01A2		303,654
PREDOCTORAL TRAINING GRANT IN GENETICS AND DEVELOPMENT	93.859	5 T32 GM007088-34		316,438
PREDOCTORAL TRAINING GRANT IN GENETICS AND DEVELOPMENT	93.859	5 T32 GM007088-35		31,717
PREDOCTORAL TRAINING GRANT IN GENETICS AND DEVELOPMENT	93.859	5 T32 GM007088-33		2,711
PROTEIN MOTIONS IN RECOGNITION, REGULATION AND CATALYSIS	93.859	5 R01 GM059273-09		360,563
PROXIMO-DISTAL PATTERNING IN THE DROSOPHILA APPENDAGES	93.859	5-R01-GM058575-11		392,915
REGULATING FOLDING AND TRANSPORT OF ABERRANT PROTEINS	93.859	5 F31 GM078855-03		40,834
REGULATING FOLDING AND TRANSPORT OF ABERRANT PROTEINS	93.859	5 F31 GM078855-02		3,512
REGULATION OF DNA REPUBLICATION BY MCM PROTEINS	93.859	1 R01 GM077495-01A2		326,222
REGULATION OF EXOCYTOSIS STUDIES WITH FLIPPED SNARES	93.859	5 R01 GM071458-04		-1,749
REGULATION OF MICROTUBULES BY RHO GTPASES	93.859	5 R01 GM62939-06		295,167
REGULATION OF SNF1/AMPK PATHWAY IN YEAST	93.859	5 R01 GM034095-24		457,230
ROLE OF SGS1, YEAST WERNER/BLOOM HOMOLOGUE IN DNA REPAIR	93.859	5 F32 GM078840-03		31,415
ROLE OF SGS1, YEAST WERNER/BLOOM HOMOLOGUE IN DNA REPAIR	93.859	5 F32 GM078840-02		14,337
SIGNALING SPECIFICITY IN DROSOPHILA SERPENTINE RECEPTORS	93.859	5 R01 GM57043-09		216,501

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SINGLE MOLECULE STUDIES OF DNA ERROR RECOGNITION BY MISMATCH ENZYMES	93.859	5 F32 GM080864-02		43,232
SINGLE MOLECULE STUDIES OF DNA ERROR RECOGNITION BY MISMATCH REPAIR ENZYMES	93.859	5 F32 GM080864-03		5,932
STRUCTURAL ANALYSIS OF MACOMOLECULAR ASSEMBLIES	93.859	7 R37 GM029169-26		390,057
STRUCTURAL AND FUNCTIONAL STUDIES OF POTESSIUM CHANNELS BY SOLID STATE NMR	93.859	1 F32 GM087908-01		15,531
STRUCTURAL BIOLOGY OF G-PROTEIN COUPLED RECEPTORS	93.859	2R01GM068671-05		251,192
STRUCTURAL MECHANICS OF MSBA FAMILY ABC TRANSPORTERS	93.859	5 R01 GM072867-03		219,079
STRUCTURAL MECHANICS OF MSBA FAMILY ABC TRANSPORTERS	93.859	3 R01 GM072867-04S1	GRA	26,977
STRUCTURE AND ASSEMBLY OF CYTOSKELETAL FILAMENTS	93.859	5 R01 GM036277-21		296,179
STRUCTURE, MECHANISM, AND INHIBITION OF ALKB HOMOLOGUES	93.859	1 R01 GM077360-01A2		374,658
STRUCTURE, MECHANISM, AND INHIBITION OF ALKB HOMOLOGUES	93.859	1 R01 GM077360-01A2	A1	22,792
TACHYKININ-MEDIATED REGULATION OF ANXIETY AND STRESS	93.859	5 R01 GM064566-05		10,858
THE STRUCTURAL DYNAMICS OF TRANSLATION INITIATION	93.859	1R01 GM084288-01A1		39,717
THEORETICAL STUDIES OF METALLOPROTEIN CHROMOPHORES	93.859	2 R01GM040526-20A1		208,634
THEORETICAL STUDIES OF METALLOPROTEIN CHROMOPHORES	93.859	3 R01 GM040526-19S1	SUP	-95
THEORETICAL STUDIES OF METALLOPROTEIN CHROMOPHORES	93.859	5 R01 GM040526-19		-5,042
THEORETICAL STUDIES OF PROTEIN FOLDING	93.859	5 R01 GM052018-11		89,297
TRAINING IN CELLULAR, MOLECULAR AND BIOPHYSICAL STUDIES	93.859	5 T32 GM008224-22		446,898
TRAINING IN CELLULAR, MOLECULAR AND BIOPHYSICAL STUDIES	93.859	2 T32 GM008224-21		-141
TRAINING PROGRAM IN COMPUTATIONAL BIOLOGY	93.859	1 T32 GM082797-01		82,278
TRAINING PROGRAM IN MOLECULAR BIOPHYSICS	93.859	2 T32 GM008281-21		301,583
TRAINING PROGRAM IN MOLECULAR BIOPHYSICS	93.859	5 T32 GM008281-19		13,032
TRAINING PROGRAM IN MOLECULAR BIOPHYSICS	93.859	5 T32 GM008281-22		7,929
TRAINING PROGRAM IN MOLECULAR BIOPHYSICS	93.859	5 T32 GM008281-20		-3,784
TRAINING PROGRAM IN PHARMACEUTICAL SCIENCES	93.859	2 T32 GM007182-31A1		171,879
UNDERSTANDING THE REGULATION OF MEGAKAROBLASTIC LEUKEMIA 1 (MKL1)	93.859	5 F31 GM082027-02		36,772
VISUALIZING THE DYNAMICS OF CHROMATIN AND CHROMATIN REMODELING PROTEINS	93.859	1 R01 GM082848-01		167,453
MECHANISMS OF TRANSCRIPTIONAL REGULATION	93.862	5 R01 GM037971-20		58,574
MRNA SYNTHESIS IN ANIMAL CELLS- 3' END FORMATION	93.862	5 R01 GM028983-27		385,588

Total Direct Award Programs:

Nat. Inst. of General Medical Sciences

21,179,462

Nat. Inst. of Child Health & Human Dvlpt.

FEMALE CONTRACEPTIVE TRIAL - RANDOMIZATION	93.000	HD43374002-A5	FEM	58,608
NICHD CONTRACEPTIVE CLINICAL TRIALS NETWORK (FEMALE CLINICALTRIAL TOPIC AREA)	93.000	HD43374002	ETH	99,603
NICHD CONTRACEPTIVE CLINICAL TRIALS NETWORK (FEMALE CLINICALTRIAL TOPIC AREA)	93.000	5 N01 HHSN2752004033		27,172

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Drug Abuse and Addiction Research Programs				
REGULATION OF GROWTH AND PRUNING OF NEURONAL ARBORS	93.279	5 R01 DA020844-03		108,514
EFFECT OF NURSE IMMIGRATION ON EMPLOYMENT AND EARNINGS OF U.S. NURSES	93.864	1 R01 HD056512-01A2		50,737
ETHNOGRAPHY OF MEN WHO HAVE SEX WITH MALE-TO-FEMALE TRANSGENDER INDIVIDUALS	93.864	1 R03 HD055107-01		164
GONADOTROPIN INHIBITORS--A STRUCTURAL BIOLOGY APPROACH TO IMMUNOCONTRACEPTION	93.864	5 R03 HD055126-02		34,943
INVESTIGATING THE LINK BETWEEN CHILD MALTREATMENT AND CRIME	93.864	1 R21 HD050740-01A2		149,769
SILENCING OF TRANSPOSONS IN MAMMALIAN GERM CELLS	93.864	1 R21 HD055480-01		209,436
SKEWED X INACTIVATION AND REPRODUCTIVE LOSS	93.864	5 R01 HD042745-05	SC1	-36,712
SOCIAL SCIENCE TRAINING AND RESEARCH SMS-HMU PARTNERSHIP	93.864	1 R24 HD056691-01		504,091
STEM CELLS AND CELL LINEAGE SPECIFICATION	93.864	5 T32 HD055165-03		32,771
STEM CELLS AND CELL LINEAGE SPECIFICATION	93.864	1 T32 HD055165-01		-424
STEM CELLS AND CELL LINEAGE SPECIFICATIONS	93.864	5 T32 HD055165-02		238,157
WORKPLACE SUPPORTS FOR PARENTS WHO ARE CAREGIVERS TO CHILDREN WITH ASTHMA	93.864	1 R21 HD052685-01A2		226,884
Child Health and Human Development Extramural Research				
AUTONOMIC REACTIVITY DURING SLEEP POSITION THERMAL STRESS	93.865	1 R21 HD051160-01A2		110,597
OBESITY, ORAL CONTRACEPTION AND OVARIAN SUPPRESSION	93.865	5 R01 HD045786-03		160,237
A LIFECOURSE APPROACH TO EMERGING HEALTH DISPARITIES IN A US BIRTH COHORT	93.865	1 R01 HD058515-01		111,941
APEX	93.865	5 U10 HD040485-07	APX	323,536
AUTONOMIC CONTROL & BIRTH OUTCOMES IN MINORITY WOMEN	93.865	5 R21 HD048612-02		90,430
BETA2 ADRENOCEPTOR GENOTYPE AND PRETERM LABOR INCIDENCE AND OUTCOME	93.865	5 R01 HDO48805-03		376,855
BONE MINERAL DENSITY IN CHILDHOOD STUDY-CLINICAL CENTER	93.865	5 N01 HD1-3332-06		75,816
CAPPS	93.865	5 U10 HD040485-07	CAP	84,734
CHILD HEALTH RESEARCH CENTER CAREER DEVELOPMENT AWARD	93.865	5 K12 HD043389-05	S11	3,261
CHILD HEALTH RESEARCH CENTER CAREER DEVELOPMENT AWARD	93.865	5 K12 HD043389-05	S10	141
CHILD HEALTH RESEARCH CENTER CAREET DEVELOPMENT AWARD	93.865	5 K12 HD043389-05	SC8	-2,828
CLINICAL RELEVANCE OF TRANSIENT NEVIRAPINE RESISTANCE	93.865	5 R01 HDO47177-04		567,146
COLUMBIA U CTR FOR CAREER DEV. IN REPRODUCTIVE SCIENCES	93.865	5 K12 HD001275-09		148,732
COLUMBIA U CTR FOR CAREER DEV. IN REPRODUCTIVE SCIENCES	93.865	5 K12 HD001275-10		12,999
COLUMBIA U CTR FOR CAREER DEV. IN REPRODUCTIVE SCIENCES	93.865	5 K12 HD001275-08		-27,136
DEVELOPMENT OF THE ENDOCRINE HYPOTHALAMUS	93.865	5 R01 HD010665-30		196,987
DOCTORAL RESEARCH TRAINING IN SOCIOMEDICAL SCIENCES	93.865	5 T32 HD049339-03		168,588
DOCTORAL RESEARCH TRAINING IN SOCIOMEDICAL SCIENCES	93.865	5 T32 HD049339-04		7,077
DOCTORAL RESEARCH TRAINING IN SOCIOMEDICAL SCIENCES	93.865	5 T32 HD049339-02		1
EARNED EXCESS CREDIT	93.865	5 U10 HD040485-08	EEC	582,446
EEG SYNCHRONY OF PRETERM INFANTS: REGIONAL DISPARITIES AND PERINATAL RISKS	93.865	1 R03 HD057410-01		60,117
ENERGY-RELATED PEPTIDES AND THE REPRODUCTIVE AXIS	93.865	5 R01 HD046715-04		289,558

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EXCEPTION FROM INFORMED CONSENT IN PEDIATRICS	93.865	5 K23 HD047634-04		3,140
FAMILY STRUCTURE, PARENTING AND CHILD WELL-BEING	93.865	5 K01 HD042776-05		20,230
FUNCTIONAL ANALYSIS OF CRIPTO IN MOUSE EMBRYOGENESIS	93.865	2 R01 HD042837-11A1		340,852
GDM	93.865	5 U10 HD040485-07	GDM	29
HIV PROTECTIVE IMMUNITY AND PERINATAL EXPOSURE	93.865	5 R01 HD042402-05		518,931
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-08		268,181
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-08	ZEP	110,461
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-09		32,225
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-07	EEC	-248
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-07	SHT	-34,055
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-07	GDM	-81,006
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-07		-105,835
MATERNAL FETAL MEDICINE UNIT NETWORK (COLUMBIA UNIVERSITY & ST. LUKE ROOSEVELT HOSPITAL & COLUMBIA PRESBYTERIAN MED)	93.865	5 U10 HD040485-07	CPP	-138,255
MECHANISM OF ACTION OF THE LISSENCEPHALY GENE LIS-1	93.865	2 R01 HD040182-07A2		371,262
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-13	COA	-3,192
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-13	COA	-21,257
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-13	PJ2	-23,366
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-15		265,438
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-15	PJ3	240,332
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01HD032062-15	PJ1	209,779
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01HD032062-15	PJ2	184,584
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-14	PJ1	141,153
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-14	PJ4	133,156
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-15	PJ4	112,915
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-14		62,980
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-14	PJ3	52,521
MITOCHONDRIAL ENCEPHALOMYOPATHIES AND MENTAL RETARDATION	93.865	5 P01 HD032062-14	PJ2	51,108
MOBILIZING THE BLACK CHURCH IN THE FIGHT AGAINST AIDS	93.865	5 R21 HD050178-02		56,119
MOLECULAR PATHOGENESIS OF COENZYME Q10 DEFICIENCY	93.865	1 R01 MD057543-01		385,435
NEUROBIOLOGY AND BEHAVIOR RESEARCH TRAINING PROGRAM	93.865	5 T32 HD007430-12		435,098
NEUROCHEMICAL CHALLENGE IN HUMAN STROKE RECOVERY	93.865	5 R01 HD043249-05		224,505
NICHD MATERNAL FETAL MEDICINE UNITS NETWORK	93.865	5 U10 HD040485-07	ZEP	40
PHARMACOKINETICS OF SELECTIVE SEROTONIN REUPTAKE INHIBITORS IN PREGNANCY	93.865	5 R21 HD050783-02		152,198
PRENATAL ALCOHOL IN SUDDEN INFANT DEATH SYNDROME AND STILLBIRTH (PASS) NETWORK	93.865	5 U01 HD055155-03		349,830
PRENATAL ALCOHOL IN SUDDEN INFANT DEATH SYNDROME AND STILLBIRTH (PASS) NETWORK	93.865	5 U01 HD055155-02		89,797
PRENATAL CYTOGENETIC DIAGNOSIS BY ARRAY-BASED COPY NUMBER ANALYSIS.	93.865	5 R01 HD055651-03		1,142,913
RAKAI ADOLESCENT PROJECT (RAP)	93.865	1 R01 HD061092-01		1,034
RCT OF A NOVEL ORAL CONTRACEPTIVE INITIATION METHOD	93.865	5 R01 HD42413-03		-36,041
RELIGIOUS RESPONSES TO HIV/AIDS IN BRAZIL	93.865	5 R01 HD050118-03		425,602
RELIGIOUS RESPONSES TO HIV/AIDS IN BRAZIL	93.865	5 R01 HD050118-03	S1	73,828

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

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RESPONSES OF AFRO-BRAZILIAN RELIGIOUS GROUPS TO HIV/AIDS	93.865	5 F31 HD055153-02		21,520
RESPONSES OF AFRO-BRAZILIAN RELIGIOUS GROUPS TO HIV/AIDS	93.865	1 F31 HD055153-01		15,112
RETINOID RECEPTOR ANTAGONISTS AS NOVEL MALE CONTRACEPTIVES	93.865	1 U01 HD060479-01		33,774
ROLE FOR MSX1 IN VERTEBRATE EMBRYOGENESIS	93.865	7 R01 HD029446-16		-349
ROLE OF CYCLIN A'S MAMMALIAN MEIOSIS	93.865	5-R01-HD034915-10		265,631
ROLE OF CYCLIN A'S MAMMALIAN MEIOSIS	93.865	3-R01-HD034915-10	SC1	78,199
ROLE OF PHOSPHOINOSITIDE IMBALANCE IN DOWN SYNDROME	93.865	5 R21 HD047733-02		18,674
ROLE OF PIP2 METABOLISM IMBALANCE IN DOWN SYNDROME	93.865	1 R01 HD055457-01A2		235,096
ROLE OF T-BOX GENES IN MOUSE DEVELOPMENT	93.865	5 R37 HD033082-12		463,565
SAFER WEANING PRACTICES FOR HIV-INFECTED WOMEN	93.865	1 R01 HD05761-01		300,599
SCAN	93.865	5 U10 HD040485-07	SCA	202,332
SKEWED X INACTIVATION AND REPRODUCTIVE LOSS	93.865	5 R01 HD042745-05		-6,764
TRISOMY AND OVARIAN AGE: AN EPIDEMIOLOGIC STUDY	93.865	1 R01 HD053814-01A2		286,532
TSH	93.865	5 U10 HD040485-07	TSH	494,049
WORK-FAMILY POLICIES AND CHILD AND FAMILY WELL-BEING	93.865	5 R01 HD047215-02		130,699
IMPLICIT STATUS COMMUNICATION & MANAGEMENT: PHYSIOLOGICAL & SOCIAL COSTS	93.865	1 F31 HD060418-01		1,748
DESIRE FOR PREGNANCY, CONTRACEPTION, AND HIV RISK AMONG SERODISCORDANT COUPLES	93.929	1 R01 HD058338-01		436,831
MEASURING HAND FUNCTION-DEVELOPMENT OF OUTCOME MEASURE	93.929	7 K23 HD042702-05		57,869
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	5 U01 HD042823-05	SC4	903,542
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	5 U01 HD042823-05	SC2	112,267
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	3 U01 HD042823-05	SC5	79,953
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	5 U01 HD042823-05	SC3	69,379
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	5 U01 HD042823-05	SC1	-31,431
TRAUMATIC BRAIN INJURY CLINICAL TRIALS NETWORK-DCC	93.929	5 U01 HD042823-05		-124,704

Total Direct Award Programs: Nat. Inst. of Child Health & Human Dvlpt.

15,101,492

National Heart, Lung, & Blood Institute

RE-ENGINEERING THE CLINICAL RESEARCH ENTERPRISE--FEASIBILITYOF INTEGRATING AND EXPANDING CLINICAL RESEARCH NETWORKS	93.000	N01 -HC-45208		37,957
RE-ENGINEERING THE CLINICAL RESEARCH ENTERPRISE--FEASIBILITYOF INTEGRATING AND EXPANDING CLINICAL RESEARCH NETWORKS	93.000	N01 -HC-45208	SC1	-13,720
SUBPOPULATIONS AND INTERMEDIATE OUTCOME MEASURE IN COPD STUDY (SPIROMICS: CLINICAL CENTER)	93.000	HHNS268200900017C		8,565
MOLECULAR DETERMINANTS OF K+ CHANNEL REGULATION IN HEART	93.371	5 R01 HL044365-15		285,826

Cancer Cause and Prevention Research

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HUMAN BEHAVIOR AND EXPERIENCE IN HEALTH AND ILLNESS A 4 YEAR CURRICULUM AT COLUMBIA	93.393	5 KO7 HL082628-03		275,937
MIND-BODY BEHAVIORAL MEDICINE CLINICAL TRIALS INFRASTRUCTURE	93.393	5 R24 HL076857-05		407,271
MIND-BODY BEHAVIORAL MEDICINE CLINICAL TRIALS INFRASTRUCTURE	93.393	5 R24 HL076857-04		4,227
Cardiovascular Diseases Research				
ABCA7:CELLULAR FUNCTIONS AND ROLE IN ARTEROSCLEROSIS	93.837	5 RO1 HL08455-02		341,931
ACE INHIBITION IN SINGLE VENTRICLE / PULMONARY HYPERTENSION TREATMENT	93.837	5 U01 HL68290-05	GER	384
ALDOSE REDUCTASE IN CARDIAC ISCHEMIC INJURY	93.837	5 R01 HL061783-08		-1,040
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 PO1 HL081172-02		469,667
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-02	PJ3	322,674
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-02	PJ2	320,231
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-02	COB	252,792
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 P01 HL081172-02	COC	192,723
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	1 PO1 HL081172-01A1	PJ1	92,584
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	1 PO1 HL081172-01A1	PJ3	79,917
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	5 PO1 HL081172-02	COA	70,640
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	1 PO1 HL081172-01A1	COC	67,367
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	1 PO1 HL081172-01A1	COB	32,788
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	1 PO1 HL081172-01A1		32,624
ALLOSTERIC MODULATION OF CARDIOVASCULAR ION CHANNELS	93.837	1 PO1 HL081172-01A1	COA	7,634
ANISOTROPY IN HEALING MYOCARDIAL SCAR TISSUE	93.837	5 R01 HL075639-04	PR	21,341
ANISOTROPY IN HEALING MYOCARDIAL SCAR TISSUE	93.837	5 R01 HL075639-04	B	578
ANISOTROPY IN HEALING MYOCARDIAL SCAR TISSUE	93.837	5 R01 HL075639-04	A	-578
APPLIED PREVENTIVE CARDIOLOGY RESEARCH	93.837	5 K24 HL076346-04		127,212
ASSEMBLY AND SECRETION OF APOB CONTAINING LIPOPROTEINS	93.837	2 R01 HL055638-11A1		275,496
ASSEMBLY OF MEMBRANES IN HEART & YEAST MITOCHONDRIA	93.837	5 R01 HL022174-28		305,120
B1-/B2-ADRENERGIC RECEPTOR MECHANISMS IN CARDIOMYOCYTES	93.837	5 R01 HL074161-05		17,936
BEHAVIORAL ECOLOGY OF HOSTILITY AND CARDIAC AUTONOMIC NERVOUS SYSTEM CONTROL	93.837	5 R01 HL072057-04		618,559
BEST-DP: BIOSTATISTICS ENRICHMENT SUMMER TRAINING DIVERSITY PROGRAM	93.837	1 R25 HL096260-01		4,750
BIVENTRICULAR PACING AFTER CARDIOPULMONARY BYPASS	93.837	5 R01 HL080152-03		462,819
CA2+ WAVES AND ARRHYTHMIAS	93.837	5 R01 HL58860-08		373,537
CARDIAC AND SKELETAL MUSCLE CALCIUM RELEASE CHANNELS	93.837	5 R01 HL056180-14		517,987
CARDIAC RHYTHM AND ARRHYTHMIAS IN NEONATE, YOUNG AND ADULT	93.837	5 P01 HL028958-25		440,940
CARDIOVASCULAR DEVELOPMENT AND DISEASE IN THE YOUNG	93.837	5 T32 HL076116-05		113,594
CARDIOVASCULAR DEVELOPMENT AND DISEASE IN THE YOUNG	93.837	5 T32 HL076116-04		11,467
CARDIOVASCULAR DISEASE: DEPRESSION AND TELOMERE LENGTH	93.837	1 RO1 HL091099-01A1		36,101
CARDIOVASCULAR DISEASES: DEPRESSION AND TELOMERE LENGTH	93.837	1 R01 HL091099-01A1		126,053
CHD INCIDENCE DEPRESSION AND INFLAMMATION RISK	93.837	5 R01 HL080665-02		41,719
CLINICAL VALIDATION OF CARDIAC STRAIN MEASURES WITH REAL-TIME 4D ULTRASOUND	93.837	1 R01 HL086578-01A2		129,934
CREATING GLUCOSE RESPONSIVE CARDIOVASCULAR COMPLICATIONS	93.837	5 U01 HL087945-02		111,183

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CREATING GLUCOSE RESPONSIVE CARDOIVASCULAR COMPLICATIONS	93.837	5 U01 HL087945-03		307,315
CYTOKINE INDUCTION OF CLAUDIN-1 IN EPICARDIAL BORDER ZONE OFISCHEMIC HEART	93.837	5 RO1 HL083205-02		4,710
EARLY GROWTH REPSONSE-1, PKC BETA, SIGNALING AND ATHEROSCLEROSIS	93.837	5 R01 HL73325-04		191,942
EFFICACY OF A FAMILY HEART HEALTH INTERVENTIONAL PROGRAM	93.837	5 R01 HL075101-04		7,511
ENGINEERING FUNCTIONAL CARDIAC TISSUE CHAMBERS	93.837	1 R21 HL085826-01A1		228,348
ENGINEERING VASCULARIZED CARDIAC MUSCLE	93.837	3 R01 HL076485-04S1		430,726
ENGINEERING VASCULARIZED CARDIAC MUSCLE	93.837	5 R01 HL076485-04 SUP		25,233
ETHNICITY, STRESS, AND LV MAS	93.837	5 K23 HL079343-03		136,511
EXPLAINING RACIAL AND ETHNIC DISPARITIES IN IDIOPATHIC PULMONARY FIBROSIS	93.837	1 K23 HL086714-01		122,892
EXTRACELLULAR REGULATION OF LIPOPROTEIN LIPASE ACTIVITY	93.837	5 R37 HL045095-17		744,948
FATTY ACID REGULATION OF LIVER LIPOPROTEIN PRODUCTION	93.837	2R01HL073030-06		419,201
FATTY ACID REGULATION OF LIVER LIPOPROTEIN PRODUCTION	93.837	5 R01 HL073030-06		1,175
FOLLOW-UP STUDY OF THE SINGLE VENTRICLE RECONSTRUCTION TRIAL	93.837	5 U01 HL68290-07		52,065
FORECASTING THE CARDIOVASCULAR DISEASE EPIDEMIC IN CHINA	93.837	1K08HL089675-01A1		100,215
HE CONNECTION BETWEEN NOTCH SIGNALING AND VEGFR1 IN ANGIOGENESIS	93.837	5 F31 HL090032-02		45,811
HIGH RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HL080146-02		-58,841
HIGH-RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HL080146-03R1		613,629
HIGH-RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HL080146-03 SC1		142,057
HIGH-RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HLO80146-04		12,309
HIGH-RESOLUTION GENOME SCANS IN CONGENITAL HEART DISEASE	93.837	5 R01 HL080146-04 SC1		8,040
IMMUNOPATHOGENIC FEATURES IN CALCIFIC AORTIC STENOSIS	93.837	5 RO1 HL084599-03		257,645
IMPROVING MED ADHERENCE IN POST-ACS PATIENT: PHASE 1B DOSE-FINDING RCT	93.837	5 K24 HL084034-04		81,088
INTERACTION OF ATHEROGENIC LIPOPROTEINS WITH MACROPHAGES	93.837	5 R01 HL057560-11		364,989
ION CHANNEL FUNCTION IN ARRHYTHMOGENIC CARDIAC CELL	93.837	5 R01 HL066140-06		461,264
ION CHANNEL FUNCTION IN ARRHYTHMOGENIC CARDIAC CELLS	93.837	5 R01 HL066140-04		11,223
ION CHANNEL REGULATION BY MACROMOLECULAR COMPLEXES	93.837	2 R01 HL068093-05A2		355,743
LIPOPROTEIN OXIDATION AND UTILIZATION DURING EXERCISE IN CHF	93.837	1 R01 1HL086845-01A1		287,451
MACROPHAGE FOAM CELLS, CATHEPSINS AND CHOLESTEROL EFFLUX	93.837	2 R01 HL022682-30		782,930
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-02 PJ PJ2		681,872
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-02 PJ PJ1		583,916
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-02 PJ3		498,598
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-02 COR		315,582
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	5 P01 HL087123-02		157,831
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	1 P01 HL087123-01A1 PJ3		67,359
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	1 P01 HL087123-01A1 PJ1		57,845
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	1 P01 HL087123-01A1		23,817
MECHANISMS OF ATHEROGENESIS IN INSULIN RESISTANCE	93.837	1 P01 HL087123-01A1 PJ2		-48,003
MECHANISMS OF ATHEROGENESIS ININSULIN RESISTANCE	93.837	1 P01 HL087123-01A1 COA		65,525
MECHANISMS OF FATTY ACID UPTAKE BY CARDIAC MUSCLE	93.837	5 R01 HL073029-05		53,611
MECHANISTIC DETERMINANTS OF PACING-INDUCED CARDIAC MEMORY	93.837	2 R01 HL067101-06A1		837,438

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MESA FAMILY STUDY - COLUMBIA UNIVERSITY FIELD CENTER	93.837	5 R01 HL071252-05		71,414
MESA: CODING OCCUPATIONAL AND INDUSTRIAL DATA (NIOSH)	93.837	N01-HC-95161 SC2	SC2	24,902
MESA: MULTIETHNIC STUDY OF ATHROSCLEROSIS-FIELD CENTER	93.837	N01 -HC-95161		343,632
METABOLISM OF INTRAVENOUS LIPID EMULSIONS	93.837	3 R01 HL040404	S2	33,562
MICROMECHANICS OF THE EXTRACELLULAR MATRIX	93.837	5 R01 HL066030-09		375,571
MIND-BODY BEHAVIORAL MEDICINE CLINICAL TRAILS INFRASTRUCTURE	93.837	5 R24 HL076857-03		-8,811
MOLECULAR BASIS OF HEART FAILURE	93.837	2 R01 HL061503-10		443,047
MOLECULAR DETERMINANTS OF L-TYPE CALCIUM CHANNEL GATING	93.837	7 R01 HL069911-06		475,217
MOLECULAR PHARMACOLOGY OF AN INHERITED HEART DISEASE	93.837	2 R01 HL056810-10A1		397,084
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL CARDIOVASCULAR	93.837	5 T32 HL087745-02		987
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL CARDIOVASCULAR RESEARCH	93.837	5 T32 HL087745-02		339,304
MULTIDISCIPLINARY TRAINING IN TRANSLATIONAL CARDIOVASCULAR RESEARCH	93.837	5 T32 HL087745-03		63,348
NETWORK FOR CARDIOTHORACIC SURGICAL INVESTIGATIONS IN CARDIOVASCULAR MEDICINE	93.837	1 U01 HL088951-01		0
NETWORK FOR CARDIOTHORACIC SURGICAL INVESTIGATIONS IN CARDIOVASCULAR MEDICINE (U01)	93.837	1 U01 HL088942-01		600,143
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLERISUS	93.837	5 P01 HL054591-14	PJ3	137,069
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLERISUS	93.837	5 P01 HL054591-14	PJ2	121,675
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS	93.837	5 P01 HL054591-13 PJ 00		356,206
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS	93.837	5 P01 HL054591-14	PJ4	112,054
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS - CORE B	93.837	5 P01 HL054591-13		802,592
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS - PJ2	93.837	5 P01HL054591-13 PJ2		443,734
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS - PJ3	93.837	5 P01 HL054591-13	PJ3	601,624
NEW GENES AND PATHWAYS INVOLVED IN ATHEROSCLEROSIS PROJECT	93.837	5 P01 HL054591-14		112,733
NEW SYNTHETIC REACTIONS FOR ACTIVE PRINCIPLES	93.837	5 R01 HL025848-27		306,692
NEW SYNTHETIC REACTIONS FOR ACTIVE PRINCIPLES	93.837	NHLBI R01 HL025848		80,813
NORTHERN MANHATTAN HEALTHY HEART INITIATIVE	93.837	1 R01 HL083857-01A2		42,047
NOTCH FUNCTION IN VASCULAR BIOLOGY AND ANGIOGENESIS	93.837	5 R01 HL062454-09		236,383
NOVEL PATHWAYS OF CELLULAR CHOLESTEROL EFFLUX	93.837	1 R01 HL081733-01		-152,561
NURSES' HEALTH STUDY: SHORT SLEEP DURATION AND RISK OF HYPERTENSION	93.837	1 R21 HL091443-01A2		7,746
P13KDELTA MODULATION OF NEUTROPHIL TRAFFICKING	93.837	5 RO1 HL075805-03		354,084
PEDIATRIC HEART NETWORK: FOLLOW-UP OF THE SINGLE VENTRICLE RECONSTRUCTION TRIAL	93.837	5 U01 HL068290-08		371,972
POSTDOCTORAL TRAINING IN ARTERIOSCLEROSIS RESEARCH	93.837	2 T32 HL007343-31		403,124
POSTDOCTORAL TRAINING IN ARTERIOSCLEROSIS RESEARCH	93.837	5 T32 HL007343-30		13,190
POSTDOCTORAL TRAINING IN ARTERIOSCLEROSIS RESEARCH	93.837	5 T32 HL007343-32		451
POSTDOCTORAL TRAINING IN CARDIOVASCULAR DISEASE	93.837	5 T32 HL007854-12		5,134
POSTDOCTORAL TRAINING IN CARDIOVASULAR DISEASE	93.837	5 T32 HL007854-13		257,140
POSTDOCTORAL TRAINING IN CARDIOVASULAR DISEASE	93.837	5 T32 HL007854-13	PJ1	205,799
PROTEIN KINASE C-DELTA ACTIONS IN CARDIOMYOCYTES	93.837	5 R01 HL077860-04		341,548
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15	PJ2	640,849
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15	COB	309,881
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15		198,749

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PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15	COA	157,037
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15	COD	71,063
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-15	PJ3	58,397
PSYCHOSOCIAL FACTORS AND CARDIOVASCULAR DISEASE	93.837	5 P01 HL047540-14	PJ2	-8,401
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	PJ1	307,518
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	PJ2	221,791
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	PJ3	195,914
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	COB	141,935
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	COC	129,850
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-09	PJ3	93,795
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-10	COA	73,946
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-09	COB	42,590
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-09	PJ1	40,062
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-09	PJ2	31,029
RAGE AND MECHANISMS OF VASCULAR AND MONOCYTE DYSFUNCTION	93.837	5 P01 HL060901-09	COC	30,566
RAGE AND MECHANISMS OF VASCULAR DYSFUNCTION	93.837	5 P01 HL060901-09	COA	80,499
RAGE-DIRECTED IMAGING IN DIABETES-INDUCED ACCELERATED ATHEROSCLEROSIS	93.837	1 R01 HL089874-01A1		72,603
REGULATION OF APOB SECRETION IN INBRED MOUSE STRAINS	93.837	5 R01 HL062583-8		210,959
REGULATION OF CARDIAC MORPHOGENESIS BY NKX GENES IN THE ZEBRAFISH EMBRYO	93.837	1 K08 HL088002-01		128,560
REGULATION OF VASCULAR SMOOTH MUSCLE CELL PROLIFERATION	93.837	5 F32 HL088815-02		13,283
REGULATION OF VASCULAR SMOOTH MUSCLES CELL PROLIFERATION	93.837	1 F32 HL088815-01A1		31,085
RGK GTPASES/CA2+ CHANNEL CROSS TALK	93.837	7 R01 HL084332-02		385,021
ROLE OF LEPTIN IN ATHEROSCLEROSIS AND ARTERIAL INJURY	93.837	5 R01 HL073191-06		51,858
SEGMENTED ASSIMILATION THEORY AND OBESITY: A TEST AMONG US LATINO ADULTS	93.837	1 F31 HL095303-01		14,127
SINGLE MOLECULE STUDIES OF TITIN ELASTICITY	93.837	2 R01HL061228-11		571,071
SINGLE MOLECULES STUDIES OF TITIN ELASTICITY	93.837	5 R01 HL061228-10		-159,133
STRUCTURAL MECHANISM OF K CHANNEL MODULATION BY CELLULAR REDOX STATE	93.837	2 RO1 HL086392-03		365,416
SUBCLINICAL CARDIOVASCULAR DISEASE STUDY-- FIELD CENTER	93.837	N01 -HC-95161	SUP	-156
SUPPORT	93.837	1 P50 HL077096-01	COD	1,303
SUPPORT	93.837	1 P50 HL077096-01	PJ2	-53,181
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-02	COA	190,503
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-02	PJ2	39,445
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-03	PJ2	1
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	PJ2	380,484
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	PJ3	313,227
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P01 HL077096-04	COA	309,745
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	COB	251,475
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	PJ1	250,117
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	COD	115,589
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	COC	86,083

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THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-04	PJ5	16,201
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-02		10,466
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-03		3,247
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-02	COB	508
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-03	COA	-1
THE BIOLOGY OF HUMAN LONG-TERM MECHANICAL CIRCULATORY SUPPORT	93.837	5 P50 HL077096-03	COB	-10,973
THE UNFOLDED PROTEIN RESPONSE IN STEROL CYTOTOXICITY	93.837	5 R01 HL075662-04		-87,228
THE UNFOLDED PROTEIN RESPONSE IN STEROL CYTOXICITY	93.837	2 R01 HL075662-04		364,300
TRANSLATIONAL STUDY OF HOSTILITY, ATHEROTHROMBOSIS AND CORONARY ARTERY DISEASE	93.837	5 K23 HL072866-06		10,928
VENTRICULAR FUNCTION DURING CARDIAC SURGERY	93.837	5 R01 HL048109-13		42,419
WNT FUNCTION IN ANGIOGENESIS AND VASCULAR BIOLOGY	93.837	5 R01 HL076411-04		228,790
DIAGNOSTIC LABELING: EFFECT ON WHITE COAT HYPERTENSION	93.837	5 K23 HL086734-03		131,018
KERN ASPEN LIPID CONFERENCE	93.837	1 R13 HL090385-01		10,000
Lung Diseases Research				
	93.838	5 NOC -HC-95184-10	GOL	383,212
	93.838	5 NOC -HC-95184-10	DON	381,070
A CLINICAL TRIAL OF ASPIRIN AND SIMVASTATIN IN PULMONARY ARTERIAL HYPERTENSION	93.838	5 R01 HL082895-03R1		326,203
ACCORD - EYE	93.838	5 N01 -HC-95184	EYE	60,000
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES "ACCORD"	93.838	5 NOC -HC-95184-10		1,485,326
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES "ACCORD"	93.838	5 NOC -HC-95184-09	MIN	170,768
ACTION TO CONTROL CARDIOVASCULAR RISK IN DIABETES "ACCORD"	93.838	5 NOC -HC-95184-10	GET	156,834
ADENOSINE REGULATION OF ALVEOLAR FLUID HOMEOSTASIS	93.838	2 R01 HL079094-04		190,219
ALVEOLAR BETA2 ADRENERGIC RECEPTORS	93.838	5 R01 HL066211-06		214,055
ALVEOLO-CAPILLARY SIGNALING IN LUNG IMMUNOLOGY	93.838	R01 HL069514-07		396,248
CALCIUM DEPENDENT SIGNALING IN AIRWAY EPITHELIAL CELLS	93.838	2 R01 HL0739889-05A1		81,033
CALCIUM DEPENDENT SIGNALING PATHWAYS IN EPITHELIAL CELLS	93.838	5 R01 HL073989-04		79,330
CALCIUM REGULATION IN LUNG MICROVASCULAR ENDOTHELIUM	93.838	5 R01 HL057556-13		389,871
CALCIUM REGULATON IN LUNG MICROVASCULAR ENDOTHELIUM	93.838	5 R01 HL057556-13		147,625
EARLY GROWTH RESPONSE-1 (EGR-1) PKCBETA AND RESTENOSIS	93.838	5 R01 HL075529-04		7,109
EFFICACY OF WRITTEN TREATMENT PLANS IN ASTHMA	93.838	5 R01 HL073955-04		456,795
ENDOTHELIAL DYSFUNCTION AND THE RV IN THE MULTI-ETHNIC STUDY OF ATHEROSCLEROSIS	93.838	5 R01 HL086719-2		220,722
ENDOTHELIAL DYSFUNCTION, BIOMARKERS AND LUNG FUNCTION	93.838	5 R01 HL077612-04		378,716
ENDOTOXIN, OBESITY, AND ASTHMA IN NYC HEAD START	93.838	5 R01 HL068236-04		-200,000
FISH OIL INTAKE, BIOMARKERS AND CHANGE IN LUNG FUNCTION	93.838	5 R01 HL075476-04		420,606
GENETIC ASPECTS OF PULMONARY HYPERTENSION	93.838	5 R01 HL060056-08		59,339
LOCAL REGULATION OF AIRWAY TONE	93.838	5 R01 HL62340-08		81,806
MENTORING IN TUBERCULOSIS PATIENT-ORIENTED RESEARCH	93.838	5 K24 HL04074-09		152,464
METHIONINE AMINOPEPTIDASE 2 IN PULMONARY FIBROSIS	93.838	1 K08 HL083085-01A2		133,027
MICROPUNCTURE STUDIES OF LUNG WATER AND SOLUTE EXCHANGE	93.838	2 R37 HL036024-24A1		391,660

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MICROPUNCTURE STUDIES OF LUNG WATER AND SOLUTE EXCHANGE	93.838	7 R37 HL036024-23		-6,575
MICROSCOPIC IMAGING IN ALVEOLAR FUNCTION	93.838	R01 HL064896-09A1		477,431
MICROSCOPIC IMAGING IN ALVEOLAR FUNCTION	93.838	R01 HL064896-08		-13,316
NEUTROPHIL-INDUCED SIGNALING IN LUNG ENDOTHELIAL CELLS	93.838	5 RO1 HL070009-05		128,449
OPTICAL IMAGING OF LUNG CAPILLARIES IN VIVO	93.838	R01 HL078645-04		392,824
PATHOGEN DISCOVERY IN CHRONIC LUNG DISEASE BY MASS TAG PCR AND MICROARRAY	93.838	5 R01 HL083850-02		539,366
PHARGOYTOSIS IN PULMONARY ALVEOLAR MACROPHAGES	93.838	5 R01 HL054164-12		270,678
SIGNALING CASCADES IN HUMORAL IMMUNITY AND AUTOIMMUNITY	93.838	2 R01 HL062215-05A1		523,829
SMOKE INDUCED AIRWAY INJURY IN COPD	93.838	5 R01 HL086936-3		286,092
STAPHYLOCOCCUS AUREUS ACTIVATION OF TNF SIGNALING PATHWAYS	93.838	5 R01 HL079395-03		290,507
TRAINING IN TRANSLATIONAL LUNG RESEARCH	93.838	5 T32 HL072739-05		195,459
TRAINING IN TRANSLATIONAL LUNG RESEARCH	93.838	5 T32 HL072739-04		-8,817
Blood Diseases and Resources Research				
EPITOPE MASKING REAGENTS IN TRANSFUSION MEDICINE	93.839	1 R21 HL087906-01		301,854
GENE DELIVERY INTO HUMAN HEMATOPOIETIC CELLS	93.839	5 R01 HL079370-04		209,347
SHORT-TERM TRAINING GRANT	93.839	5 T35 HL007616-30		90,720
SHORT-TERM TRAINING GRANT	93.839	5 T35 HL007616-29		45,686
SHORT-TERM TRAINING--STUDENTS IN HEALTH PROFESSIONAL SCHOOLS	93.839	5 T35 HL07616-28		6,048
STRUCTURAL/FUNCTIONAL CHARACTERIZATION OF THE VWF-A1 DOMAIN	93.839	5 RO1 HL063244-08		2,632
ZFX A NOVEL TRANSCRIPTIONAL REGULATOR OF HEMATOPOIESIS	93.839	5 RO1 HL084353-02		449,440
Total Direct Award Programs: National Heart, Lung, & Blood Institute				42,630,819
Nat. Inst. of Neurological Disorder & Stroke				
Mental Health Research Grants				
DELIVERY SYSTEMS FOR PRECISION BRAIN CELL TARGETING	93.242	1 R21 MH080024-01	BM1	97,223
DELIVERY SYSTEMS FOR PRECISION BRAIN CELL TARGETING	93.242	1 R21 MH080024-01	PRI	75,633
A CELL-BASED HTS FOR DELAYED DEATH INHIBITORS OF THE MALARIA L PARASISTE PLASID	93.310	3R21NS059500-01S1	SC1	15,441
A CELL-BASED HTS FOR DELAYED DEATH INHIBITORS OF THE MALARIAL PARASITE PLASTID	93.310	1 R21 NS059500-01		20,286
DEVELOPMENT OF THE HTS ASSAY FOR AGONISTS OF THE ORPHAN NUCLEAR RECEPTOR NR2E3	93.310	1 R21 NS061718-01		23,322
National Center for Research Resources				
	93.389	5 KL2 RR024157-03	SC8	159,311
A MASSIVELY PARALLEL DNA SEQUENCER	93.389	1 S10 RR024762-01		450,800
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03		2,099,306
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03	SC2	1,938,503

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CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC1		1,340,165
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC3		965,680
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC6		616,421
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC5		431,166
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC7		383,828
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 TL1 RR024158-03		226,620
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC4		214,462
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC4		163,880
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC1		163,834
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC1		163,611
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC3		163,528
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC6		154,542
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC2		137,364
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC1		136,255
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC9		129,294
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC1		122,445
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC5		119,465
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC SC8		34,043
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 SC8		20,526
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 SC9		13,514
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-03 SC8		12,001
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 S13		10,457
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-03 SC7		10,020
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 S12		9,863
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 SC4		8,927
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 SC7		5,958
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 SC3		2,643
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02		2,042
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 S10		1,167
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	1 KL2 RR024157-01 SC5		1,111
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	5 KL2 RR024157-02 SC6		644
CLINICAL AND TRANSLATIONAL SCIENCE AWARD	93.389	2 TL1 RR024158-02		-2,424
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	3 UL1 RR024156-02S1 SC1		578,021
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-02		134,503
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	3 UL1 RR024156-02S1 SC3		36,793
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	3 UL1 RR024156-02S1 SC7		12,033
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	3 UL1 RR024156-02S1 SC5		11,705
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-02 SUP		8,656
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	1 UL1 RR024156-01		4,755
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	3 UL1 RR024156-02S1 SC6		3,383

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CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	3 UL1 RR024156-02S1 SC2		1,177
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	5 UL1 RR024156-02 SC4		236
CLINICAL TRANSLATIONAL SCIENCE AWARD	93.389	1 UL1 RR024156-01 SC4		0
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
DOWNSTREAM REGULATORS OF BETA-AMYLOID INDUCED NEURONAL DEATH	93.701	2 R56 NS043089-05		296,399
Extramural Research Programs in the Neurosciences and Neurological Disorders				
3D NEUROVASCULAR COUPLING: A DEPTH-RESOLVED VOLTAGE SENSITIVE DYE IMAGING SYSTEM	93.853	7 R21 NS053684-02		96,450
A GENOME-WIDE RNAI SCREEN FOR NEURONAL CELL FATE MUTANTS	93.853	1 R03 NS064482-01		60,794
A MULTICENTER STUDY OF IDIOPATHIC GENERALIZED EPILEPSY	93.853	5 R01 NS027941-19		508,146
A MULTICENTER STUDY OF IDIOPATHIC GENERALIZED EPILEPSY	93.853	5 R01 NS027941-20		383,045
A MULTICENTER STUDY OF IDIOPATHIC GENERALIZED EPILEPSY	93.853	3 R01 NS027941-19 S1		27,442
A MULTICENTER STUDY OF IDIOPATHIC GENERALIZED EPILEPSY	93.853	2 R01 NS027941-17A1		5,663
A MULTICENTER STUDY OF IDIOPATHIC GENERALIZED EPILEPSY	93.853	5 R01 NS027941-18		3,699
A MULTIDISCIPLINARY APPROACH TO EPILEPSY GENETICS	93.853	5 K02 NS050429-03		186,536
A NOVEL CELL-BASED HIGH-THROUGHPUT ASSAY FOR ALS	93.853	1 R21 NS064191-01A1		18,661
A NOVEL GENE AFFECTING NEURONAL CELL FATE SPECIFICATION	93.853	5 F31 NS054540-03		34,940
A NOVEL GENE AFFECTING NEURONAL CELL FATE SPECIFICATION	93.853	5 F31 NS054540-02		1,054
A RANDOMIZED TRIAL OF UNRUPTURED BRAIN AVMS (ARUBA)-STAT	93.853	5 U01 NS051566-03		131,341
ACTIVITY REFINES CORTICOSPINAL TERMINATIONS	93.853	5 R01 NS036835-010		262,583
ADULT SUBVENTRICULAR ZONE GLIOGENESIS IN LIMBIC EPILEPSY	93.853	5 K08 NS048064-03		189,599
AORTIC AND CARDIOVASCULAR DISEASE AND SILENT BRAIN INFARCTS	93.853	5 R01 NS036286-09		384,214
AORTIC AND CARDIOVASCULAR DISEASE AND SILENT BRAIN INFARCTS	93.853	5 R01 NS036286-10		103,833
AORTIC AND CARDIOVASCULAR DISEASE AND SILENT BRAIN INFARCTS	93.853	5 R01 NS036286-08		11,307
APOPTOSIS IN SUBSTANTIA NIGRA	93.853	5 R01 NS026836-17		564,013
AUTOPHAGY AND NEURODEGENERATION	93.853	1 R01 NS063973-01		77,427
BETA-GLUCOCEREBROSIDASE MUTATIONS AND PARKINSON'S DISEASE B3105IN THE ASHKENAZIM	93.853	5 R01 NS050487-02		67,123
BIOCHEMISTRY OF THE NEURONAL CYTOSKELETON	93.853	5 R01 NS015182-29		1,109
BIOLOGY OF STEM CELLS IN THE ADULT MAMMALIAN BRAIN	93.853	5 RO1 NS053884-02		354,049
BK CHANNEL MODULATION BY BETA SUBUNITS	93.853	5 R01 NS054946-3		368,168
C1Q COMPLEMENT AND HYPOXIC-ISCHEMIC INJURY IN THE DEVELOPING BRAIN	93.853	5- R01-NS056146-03		384,875
CCOMPLEMENT-MEDIATED NEURONAL INJURY IN STROKE	93.853	2 R01 NS040409-06A2		374,309
CELLULAR AND BIOCHEMICAL STUDIES ON CENTRAL NERVOUS SYSTEM GLIA	93.853	5 R01 NS17125-25		318,593
CENTRAL NERVOUS SYSTEM DEFECTS IN A MURINE ZELLWGER SYNDROMEMODEL	93.853	5 R01 NS050602-08		-19,586
CIRCUIT MECHANISMS OF CORTICAL SYNCHRONIZATIONS	93.853	5 F30 NS051964-04R1		50,423
CLINICAL NEUROSCIENCE TRAINING PROGRAM	93.853	5 T32 NS007155-28		128,916
CLINICAL NEUROSCIENCE TRAINING PROGRAM	93.853	5 T32 NS007155-27		9,776
CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASES	93.853	5 P01 NS011766-31 PJ2		147,926
CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASES	93.853	5 P01 NS011766-31 COB		114,726

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CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASES	93.853	5 P01 NS011766-31	PJ1	102,172
CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASES	93.853	5 P01 NS011766-31	PJ4	74,479
CLINICAL RESEARCH CENTER FOR NEUROMUSCULAR DISEASES	93.853	5 P01 NS011766-31	COA	11,667
CLINICAL RESEARCH IN EPILEPSY AND ASSOCIATED DISORDERS	93.853	5 K24 NSO47551-04		-54
CLINICAL TRIAL OF HIGH DOSE COENZYME Q10 IN AMYOTROPHIC LATERAL SCLEROSIS ALS-QALS-STAT	93.853	5 R01 NS048555-04		104,127
CLINICAL TRIAL OF HIGH DOSE COQ10 IN ALS - QALS-CLIN	93.853	5 R01 NS048125-04		119,483
CLINICAL TRIAL OF HIGH DOSE COQ10 IN ALS - QALS-CLIN	93.853	5 R01 NS048125-04	SC1	115,356
COGNITIVE GENETIC ASPECTS OF DUCHENNE MUSCULAR DYSTROPHY	93.853	5 R01 NS047918-09		45,446
CONTROL OF MOTOR NEURON DIFFERENTIATION	93.853	5 R01 NS033245-14		557,644
CORTICAL LOCALIZATION IN TEMPORAL LOBE EPILEPSY	93.853	5 R01 NS035140-10		224,156
DATA COORDINATING CENTER FOR A RANDOMIZED TRAIL OF UNRUPTURED BRAIN AVMS (ARUBA)	93.853	5 U01 NS051566-02		-844
DE-CODING CIS-REGULATORY INFORMATION ON A GENOME-WIDE LEVEL WITH SINGLE NEURON	93.853	3 R01 NS039996-08S1		24,687
DE-CODING CIS-REGULATORY INFORMATION ON A GENOME-WIDE LEVEL WITH SINGLE NEURON RESOLUTION	93.853	5 R01 NS039996-07		341,067
DENDRITIC PATTERNING BY INTERACTING EXTRINSIC CUES	93.853	1 R01 NS061908-01		308,722
DEPRESSION AND HEALTH OUTCOMES IN REFRACTORY EPILEPSY	93.853	5 RO1 NS040808-0602X		-11,615
DIASCHISIS AFTER STROKE: A NOVEL APPROACH WITH ARTERIAL SPIN LABELING (ASL) MRI	93.853	5 R21 NS054718-02		161,058
DIVERSITY ALONG THE LEFT/RIGHT AXIS IN NERVOUS SYSTEM	93.853	5 R01 NS050266-04		392,306
DOSE AND TREATMENT SELECTION IN CLINICAL TRIALS	93.853	5 R01 NS055809-02		200,362
DSCAM DIVERSITY AND CIRCUIT FORMATION IN THE DROSOPHILA NERVOUS	93.853	1 F31 NS060341-01		740
DSCAM DIVERSITY AND CIRCUIT FORMATION IN THE DROSOPHILA NERVOUS SYSTEM	93.853	5 F31 NS060341-02		41,214
EARLY MOTOR NEURON ALTERATION IN A NON-CELL AUTONOMOUS ALS MODEL	93.853	1 R21 NS062180-01		141,799
ELASTOMERIC MICROELECTRODE ARRAY FOR IN VITRO BRAIN	93.853	5 R21 NS052794-02		15,373
ENVIRONMENTAL EPIDEMIOLOGY OF ESSENTIAL TREMOR	93.853	2 R01 NS039422-09		22,119
ESTABLISHMENT OF SEGMENTAL IDENTITY IN EMBRYONIC STEM CELL DERIVED MOTOR NEURONS	93.853	1 R01 NS058502-01		373,383
EXPRESSION OF NEURONAL NICOTINIC ACETYLOCHOLINE RECEPTOR	93.853	5 R01 NS029071-17		18,232
FAMILY STUDY OF STROKE RISK AND CAROTID ATHEROSCLEROSIS	93.853	5 R01 NS040807-05		-9,081
FORMATION OF SPECIFIC SYNAPSES	93.853	5 R01 NS042159-06		312,584
FUNCTION OF NEOCORTICAL GABAERGIC INTERNEURONS IN LOCAL CIRCUIT ACTIVATIONS	93.853	1 F30 NS063544-01		46,069
FUNCTIONAL ANATOMY OF VISUOMOTOR LEARNING & MOTOR MEMORY	93.853	5 R01 NS052804-2		310,589
GENE ENVIRONMENT INTERACTIONS IN AN AUTISM BIRTH COHORT	93.853	5 U01 NS047537-05		771,408
GENE ENVIRONMENT INTERACTIONS IN AN AUTISM BIRTH COHORT	93.853	5 U01 NS047537-05	SC1	50,075
GENE EXPRESSION REGULATORY CIRCUITRY AND MICRORNAS IN MIDBRAIN DOPAMINE NEURONS	93.853	1 R01 NS064433-01		97,066
GENETIC ANALYSIS OF DOPAMINERGIC NEURON SPECIFICATION IN C.ELEGANS	93.853	2 R01 NS050266-06		40,178
GENETIC ANALYSIS OF FAS IN MOTOR NEURON CELL DEATH	93.853	5 F32 NS055547-03		48,040
GENETIC ANALYSIS OF FAS IN MOTOR NEURON CELL DEATH	93.853	5 F32 NS055547-02		5,785
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	5 R01 NS36630-06		12,252
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	5 R01 NS36630-08	SC1	0
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	5 R01 NS36630-08		-4,000
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	5 R01 NS36630-09		664,100
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.853	5 R01 NS36630-09 SC1		219,544

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GENETIC EPIDEMIOLOGY OF SEIZURE DISORDERS IN ROCHESTER	93.853	5 R01 NS43472-05		834,189
GENETICS OF AD PARTIAL EPILEPSY WITH AUDITORY FEATURES	93.853	5 R01 NS036319-08		104,870
GENETICS OF AUTOSOMAL DOMINANT PARTIAL EPILEPSY WITH AUDITORY FEATURES	93.853	5 R01 NS036319-08	SC1	-2
GENETICS OF MOUSE SEIZURE SUSCEPTIBILITY	93.853	1 R01 NS061991-01		199,146
GENETICS OF ROLANDIC EPILEPSY	93.853	5 R01 NS047530-03		305,953
GENETICS OF ROLANDIC EPILEPSY	93.853	5 R01 NS047530-03	SUP	18,763
IDENTIFICATION OF NOVEL ALPHA SYNUCLEIN BINDING PROTEINS	93.853	5 R01 NS043298-04		211,808
INFLAMMATORY AND INFECTIOUS BURDEN AND RISK OF STROKE	93.853	5 R01 NS048134-05		210,557
IN-VIVO OPTICAL IMAGING OF NEUROVASCULAR COUPLING AND CEREBRAL METABOLISM	93.853	1 R01 NS063226-01		207,767
LESION AND ACTIVITY DEPENDENT CORTICOSPINAL TRACT PLASTICITY	93.853	1 R01 NS064004-01A1		1,948
LEVELS OF INFLAMMATORY MARKERS IN TREATMENT OF STROKE	93.853	5 R01 NS050724-04		307,759
MAINTENANCE AND NEUROPROTECTION	93.853	1 R21 NS056312-01A1		168,748
MECHANIS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-10	PJ2	203,439
MECHANIS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-10	COA	53,046
MECHANISM OF SPASTIN-MEDIATED MICROTUBULE SERVERING	93.853	1 F31 *NINDS CU5228		-2,200
MECHANISM OF SPASTIN-MEDIATED MICROTUBULE SERVERING	93.853	5 F31 NS056781-02		17,672
MECHANISMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-10	PJ1	220,645
MECHANISMS OF DOPAMINE NEURON DEGENERATION (COB)	93.853	5 P50 NS038370-10		161,300
MECHANISMS OF SYNAPTIC DYSFUNCTION BY AMYLOID PEPTIDES	93.853	5 R01 NS049442-04		321,727
MECHANISMS OF SYNAPTIC DYSFUNCTION BY AMYLOID PEPTIDES	93.853	3 R01 NS049442-04		15,487
MECHANISMS UNDERLYING DEVELOPMENT AND RESISTANCE TO ALS OF SPECIFIC MOTOR POOLS	93.853	1 F30 NS065635-01		3,671
MECHANSIMS OF DOPAMINE NEURON DEGENERATION	93.853	5 P50 NS038370-10	PJ4	193,355
MICROENVIRONMENT IN ENTERIC NEURON DEVELOPMENT	93.853	5 R01 NS015547-27		484,730
MOLECULAR AND CELLULAR ANALYSES OF DJ-1	93.853	5 R01 NS049070-03		426,837
MOLECULAR AND CELLULAR ANALYSES OF PARKIN FUNCTION	93.853	5 R01 NS046659-05		94,030
MOLECULAR AND CELLULAR MECHANISMS OF PRIMARY DYSTONIA	93.853	5 R01 NS050528-04		36,411
MOLECULAR GENETIC ANALYSIS OF LYSOSOMAL STORAGE DISORDER GENES IN PD	93.853	1 R01 NS060113-01		195,702
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-10	PJ3	275,879
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-09	PJ2	36,272
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-09	PJ1	32,261
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-09	PJ4	29,834
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-09	PJ3	21,685
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-09	COB	10,595
MORRIS K UDALL PARKINSON'S DISEASE RESEARCH CENTER	93.853	5 P50 NS038370-09	COA	-5,550
NATURAL HISTORY AND TREATMENT RISK IN BRAIN ARTERIOVENOUS MALFORMATIONS	93.853	5 R01 NS040792-05		-36,470
NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	93.853	5 R01 NS012969-32		321,339
NEURAL CONTROL OF GASTROINTESTINAL ACTIVITY	93.853	2 R01 NS012969-34		75,731
NEURAL MECHANISMS OF DISTRACTOR FILTERING IN THE PARIETAL CORTEX	93.853	1 F31 NS062507-01A2		20,382
NEURAL SUBSTRATES FOR MATCHING HEARING TO UTTERANCE	93.853	2 R01 NS023684-26A2		79,381
NEUREXIN-NEUROLIGIN TRANS-SYNAPTIC INTERACTION: LEARNING-RELATED SYNAPTIC GROWTH	93.853	1 KO8 NS053415-01A2		127,428

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NEUROEPIDEMIOLOGY TRAINING PROGRAM	93.853	5 T32 NS007153-25		148,311
NEUROEPIDEMIOLOGY TRAINING PROGRAM	93.853	5 T32 NS007153-23		461
NEUROEPIDEMIOLOGY TRAINING PROGRAM	93.853	5 T32 NS007153-24		-11,358
NEUROGLYCOPENIA:GENOTYPE-PHENOTYPE CORRELATION	93.853	5 R01 NS037949-10		6,541
NEUROLOGICAL SCIENCES ACADEMIC DEVELOPMENT AWARD	93.853	5 K12 NS001698-09		-16,500
NEUROLOGICAL SCIENCES ACADEMIC DEVELOPMENT AWARD (NSADA)	93.853	5 K12 NS001698-10		352,546
NEURONAL BIOINTERFACE: MICROPATTERNED LIPID BILAYERS	93.853	5 R21 NS050302-02		5,041
NEURONAL DEGENERATION-MECHANISMS AND PREVENTION	93.853	5 R01 NS35933-09		4,902
NEUROTROPHIC FACTOR DEPRIVATION AND NEURONAL CELL DEATH	93.853	5-R01-NS033689-15		522,947
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-03	COC	7,334
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-04	COC	193
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-03		-314
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-03	PJ3	-1,055
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-03	COB	-3,477
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-04		-7,231
NEW YORK COLUMBIA COLLABORATIVE SPECIALIZED PROGRAM ON TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-03	COA	-10,972
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05	COA	340,825
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05	PJ2	329,307
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05		257,692
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05	COB	251,887
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05	COC	44,865
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS	93.853	5 P50 NS049060-05	COD	7,174
NEW YORK COLUMBIA COLLABORATIVE SPOTRIAS (SWIFT)	93.853	5 P50 NS049060-05	PJ3	642,980
NORTH AMERICAN SITES	93.853	2 U01 NS043975-08	NAS	-125,314
NUCLEOCYTOPLASMIC INTERACTIONS AND DYNAMICS IN EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.853	1 R01 NS059352-01		270,394
NUCLEOCYTOPLASMIC INTERACTIONS AND DYNAMICS IN EMERY-DREIFUSS MUSCULAR DYSTROPHY	93.853	1 R01 NS059352-01	GUN	166,535
PATHOGENESIS OF ESSENTIAL TREMOR: CEREBELLAR METABOLISM	93.853	2 R56 NS042859-06		251,182
PATHOGENESIS OF ESSENTIAL TREMOR: CEREBELLAR METABOLISM	93.853	5 R01 NS042859-05		139,674
PATHOGENESIS OF TUBEROUS SCLEROSIS CORTICAL LESIONS	93.853	5 F30 NS052037-02		31,146
PATHOLOGY AND BIOLOGY OF NEURODEGENERATIVE DISEASE	93.853	5 R01 NS015076-27		133,636
PHASE IIB STUDY OF TNK IN ACUTE STROKE (TNK-S2B-STAT)	93.853	3 R01 NS045170-04	S1	109,731
PHASE IIB STUDY OF TNK IN ACUTE STROKE (TNK-S2B-STAT)	93.853	5 R01 NS045170-04		100,031
PHYSIOLOGY OF CONTOUR INTEGRATION	93.853	5 F31 NS056834-02		3,507
PHYSIOLOGY OF CONTOUR INTEGRATION	93.853	1 F31 1NS056834-01A2		-3,507
PROINFLAMMATORY ENZYMES IN AMYTROPHIC LATERAL SCLEROSIS	93.853	2 R01 NS042269-05A2		37,945
PROTEIN TRAFFICKING IN NEURODEGENERATIVE DISEASES	93.853	5 R01 NS050199-04		398,858
REGULATION OF CNG AND HCN CHANNELS BY LIGAND AND VOLTAGE	93.853	5 R01 NS036658-08		74,427
REGULATION OF HCN CHANNEL TRAFFICKING AND FUNCTION IN THE BRAIN BY TRIP8B	93.853	2 R01 NS036658-10		273,146
REGULATION OF HCN CHANNEL TRAFFICKING AND FUNCTION IN THE BRAIN BY TRIP8B	93.853	3 R01 NS036658-09S1		34,698
REGULATION OF PIP2 METABOLISM IN NERVE TERMINALS	93.853	5 F31 NS058096-02		38,743

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REGULATION OF PIP2 METABOLISM IN NERVE TERMINALS	93.853	1 F31 NS058096-01A1		2,471
ROLE OF FAS DEATH RECEPTOR SIGNALING IN MOTOR NEURON DEGENERATION	93.853	1 R01 NS056422-01A1		345,085
ROLE OF PHOSPHILIDS IN MEMBRANE TRAFFIC AT THE SYNAPSE	93.853	5 R01 NS056049-02		359,246
ROLE OF PHOSPHOLIPIDS IN MEMBRANE TRAFFIC AT THE SYNAPSE	93.853	3 R01 NS056049-02		55,848
SEIZURE LOCATION USING SIGNAL PROCESSING TECHNIQUES	93.853	5 K08 NS048871-03		154,302
SPATIOTEMPORAL ERP MODELING AND BRAIN DEVELOPMENT (K-25)	93.853	5 K25 NS052230-03		20,186
STATISTICAL METHODS FOR EPIDEMOLOGIC STUDY OF STROKE	93.853	5 R01 NS036928-06		-1
STROKE INCIDENCE AND RISK FACTORS IN A TRI-ETHNIC REGION	93.853	5 R01 NS029993-14		-4,238
STRUCTURAL BASIS OF CA2+ CHANNEL FUNCTION AND REGUALTION	93.853	1 R01 NS053494-01A1		309,731
STRUCTURAL BASIS OF TRPC CHANNEL FUNCTION AND REGULATION	93.853	2 R01 NS045383-11A1		428,128
STUDY OF CAROTID OCCLUSION AND NEUROCOGNITION (RECON)	93.853	5 R01 NS048212-04		146,080
STUDY OF CAROTID OCCLUSION AND NEUROCOGNITION (RECON)	93.853	5 R01 NS048212-05		82,315
STUDY OF CAROTID OCCLUSION AND NEUROCOGNITION (RECON)	93.853	5 R01 NS048212-02	MAR	1,591
STUDY OF CAROTID OCCLUSION AND NEUROCOGNITION (RECON)	93.853	5 R01 NS048212-03	MAR	500
SYNAPTIC REGULATION OF DORSAL HORN PROJECTION NEURONS	93.853	5 R01 NS029797-13		270,443
TEMPORAL TRANSCRIPTOMES OF TBI AND OGD FOR DISSEMINATION (T3OD)	93.853	5 R03 NS054256-02		13,085
THE ACTIVITY OF V4 IN FREE VIEWING VISUAL SEARCH	93.853	5 F31 NS058059-02		3,594
THE ACTIVITY OF V4 IN FREE VIEWING VISUAL SEARCH	93.853	1 F31 NS058059-01A2		-3,594
THE CONTRIBUTING EFFECTS OF MUSCLE, NERVE AND THE NMJ TO SMA PATHOLOGY	93.853	1 R01 NS057482-01A2		244,144
THE MECHANISM OF LRRK2-MEDIATED NEURODEGENERATION IN PARKINSON'S DISEASE	93.853	1 R01 NS061098-01A1		235,816
THE MECHANISM OF MPTP RESISTANCE IN SYNUCLEIN NULL MICE	93.853	5 K02 NS045798-04		19,366
THE MECHANISM OF MPTP RESISTANCE IN SYNUCLEIN NULL MICE.	93.853	5 K02 NS045798-05		105,379
THE MECHANISM OF NEURODEGENERATION IN DYSTONIA MUSCULORUM	93.853	5 R01 NS047711-04		60,667
THE MECHANISM OF NEURODEGENERATION IN DYSTONIA MUSCULORUM	93.853	5 R01 NS047711-04	SUP	1,446
THE ROLE OF EPH-EPHRIN INTERACTIONS IN GLIOMA MIGRATION	93.853	5 K08 NS045070-05		47,312
THE ROLE OF MICRO RIBONUCLEIC ACID IN GENERATING CELLUAR DIVERSITY	93.853	5 F31 NS052089-04		27,198
THE ROLE OF MICRO RIBONUCLEIC ACID IN GENERATING CELLULAR DIVERSITY	93.853	5 F31 NS052089-03		-763
THE ROLE OF MIRNAS IN GENERATING CELLULAR DIVERSITY	93.853	5 F31 NS052089-05		17,621
THE ROLES OF ID PROTEINS IN CENTRAL NERVOUS SYSTEM GLIAL FATE DECISIONS	93.853	5 F30 NS051997-03		-298
THE ROLES OF ID PROTEINS IN CENTRAL NERVOUS SYSTEM GLIAL FATED DECISIONS	93.853	5 F30 NS051997-04		14,952
TRAFFICKING OF HCN1 ION CHANNELS	93.853	1 F32 NS064732-01A1		6,798
TRAJECTORY CONTROL AND MOTOR LEARNING IN STROKE	93.853	5 K02 NS048099-03		167,338
TRANSCRIPTIONAL CONTROL OF TARGET MUSCLE INNERVATION BY FACIAL MOTOR NEURONS	93.853	1 F32 NS060566-01A2		15,168
TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-04	COA	2,623
TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-04	PJ3	-1,653
TRANSLATIONAL RESEARCH IN ACUTE STROKE	93.853	5 P50 NS049060-04	COB	-16,370
TRANSMITTER RELEASE FROM PERIPHERAL SENSORY NEURONS	93.853	5 RO1 NS053575-03		392,156
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION-STAT	93.853	5 U01 NS039143-04		460
WARFARIN VS. ASPIRIN IN REDUCED EJECTION FRACTION	93.853	5 U01 NS043975-09		4,096,892
WARFARIN VS. ASPIRIN IN REDUCED EJECTION FRACTION	93.853	2 U01 NS043975-08		332,803

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WARFARIN VS. ASPIRIN IN REDUCED EJECTION FRACTION	93.853	7 U01 NS043975-07		31,588
WARFIN VS ASPIRIN IN REDUCED EJECTION FRACTION-STAT	93.853	5 U01 NS039143-05		22,018
Aging Research				
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.866	5 R01 NS36630-06	SC1	1,897
GENETIC EPIDEMIOLOGY OF PARKINSON'S DISEASE	93.866	5 R01 NS36630-07		672
Total Direct Award Programs: Nat. Inst. of Neurological Disorder & Stroke				41,832,438
Fogarty International Center				
International Research and Research Training				
BLOOD-BORNE INFECTION SCREENING IN AFGHAN ANTENATAL POP	93.989	5 K01 TW007408-03		108,186
DOES ARSENIC MITIGATION IN BANGLADESH RAISE EXPOSURE TO BACTRIAL AND VIRAL PATHOGENS	93.989	1 R01 TW008066-01	PR	492,610
DOES ARSENIC MITIGATION IN BANGLADESH RAISE EXPOSURE TO BACTRIAL AND VIRAL PATHOGENS	93.989	1 R01 TW008066-01	CU	45,252
INTERNATIONAL TRAINING PROGRAM IN EPIDEMIOLOGY OF AIDS	93.989	5 D43 TW000231-13		15,796
Total Direct Award Programs: Fogarty International Center				661,844
Nat. Center for Research Resources				
National Center for Research Resources				
INTERDISCIPLINARY RESEARCH ON ANTIMICROBIAL RESISTANCE	93.389	5 P20 RR020616-03	SC6	2,439
INTERDISCIPLINARY RESEARCH:ANTIMICROBIAL RESISTANCE(RMI)	93.389	5 P20 RR020616-03		9,997
Total Direct Award Programs: Nat. Center for Research Resources				12,436
Nat. Inst. on Deafness & Other Communication Disorders				
Research Related to Deafness and Communication Disorders				
ADULT NEUROGENESIS IN THE MAMMALIAN OLFACTORY BULB	93.173	1R01DC009239-01A1		642,818
ANALYSIS OF FUNCTIONAL DIVERSITY IN THE CHEMOSENSORY SYSTEM OF C. ELEGANS	93.173	5 F31 DC009098-02		53,259
ANALYSIS OF FUNCTIONAL DIVERSITY IN THE CHEMOSENSORY SYSTEM OF C. ELEGANS	93.173	1 F31 1DC009098-01		-3,313
ASSEMBLY AND MAINTENANCE OF OLFACTORY SENSORY MAPS	93.173	5 R01 DC006292-05		660
CRCNS: INPUT/OUTPUT CHARACTERIZATION OF THE ANTENNAL LOBE OF THE DROSOPHILA	93.173	1 R01 DC008701-01		258,122
ENCODING AND MODULATION OF INNATELY RELEVANT ODOR INFORMATION IN THE MOUSE	93.173	1 F31 DC009922-01		37,454
EXPLORING OTOACOUSTIC EMISSIONS WITH ITRACOCHLEAR PRESSURE MEASUREMENTS	93.173	1 R03 DC009080-01	C	74,425
LIFELONG DEVELOPMENT IN THE VOMERONASAL EPITHELIUM	93.173	5 F32 06008455-03		43,506
LIFELONG DEVELOPMENT IN THE VOMERONASAL EPITHELIUM	93.173	5 F32 DC008455-02		6,966
MICROARRAY - BASED ANALYSIS OF OLFACTORY RECEPTOR EXPRESSION	93.173	5 R01 DC006713-04		-154,340
OBSERVING AUDITORY MECHANICS WITH PRESSURE AND MOTION MEASUREMENTS	93.173	5 R01 DC003130-14		246,426
OBSERVING AUDITORY MECHANICS WITH PRESSURE AND MOTION MEASUREMENTS	93.173	3 R01 DC003130-14S1	SC2	24,415

The Trustees of Columbia University in the City of New York

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For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
OBSERVING AUDITORY MECHANICS WITH PRESSURE MEASUREMENTS	93.173	5 R01 DC003130-13 SUP		52,696
SYNAPTIC PROCESSES MEDIATING CORTICAL ODOR CODING	93.173	1 K99 DC009839-01		52,259
THE FUNCTION OF NEUROGENESIS IN THE MAMMALIAN OLFACTORY BULB	93.173	1 F32 DC008944-01A2		42,680
THE FUNCTION OF NEUROGENESIS IN THE MAMMALIAN OLFACTORY BULB	93.173	1 F32 DC008944-01A2		6,496
Aging Research				
MAPPING MOLECULAR AND CELLULAR RESPONSES TO ODORANTS	93.866	5 K08 DC004807-05		8,196
Total Direct Award Programs: Nat. Inst. on Deafness & Other Communication Disorders				1,392,725
Nat. Inst. of Diabetes & Digestive & Kidney Diseases				
Diabetes, Digestive, and Kidney Diseases Extramural Research				
ADIPOSE TISSUE MACROPHAGE PHENOTYPE AND FUNCTION	93.847	5 R01 DK066525-05		539,882
BONE PROPERTIES IN HYPOPARATHYROIDISM--EFFECTS OF PARATHYROID HORMONE	93.847	5 R01 DK069350-03		706,821
BONE QUALITY IN HYPOPARATHYROIDISM: EFFECTS OF PTH	93.847	5 K23 DK067619-04		97,494
CIRCULATING OSTEOBLAST LINEAGE CELLS IN HYPOPARATHYROIDISM	93.847	1 R03 DK077696-01		68,133
CLONING OF A TYPE 2 DIABETES MODIFIER IN OBESE MICE	93.847	2 R01 DK066518-05		526,191
CLONING OF A TYPE 2 DIABETES MODIFIER IN OBESE MICE	93.847	5 R01 DK066518-04		1,864
DEFINING THE ROLE OF NKX2.2 AND NEUROD IN REGULATING	93.847	5 U01 DK072504-04		588,460
DEFINING THE ROLE OF NKX2.2 AND NEUROD IN REGULATING I*	93.847	3U01 DK072504-04 SC1		56,809
DEFINING THE ROLES OF NKX2.2 AND NEUROD IN REGULATING	93.847	7 U01 DK072504-04		110,765
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-05 CO COE		-3,923
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06		129,354
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 COF		123,167
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 ADM		119,266
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 COC		91,788
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 SU2		79,764
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 COE		70,488
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 ADM		69,490
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 COF		63,415
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 SC1		53,337
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 COA		19,548
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 COC		14,097
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 PT6		9,661
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 PT2		2,998
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 PT3		1,011
DIABETES AND ENDOCRINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-07 PT4		218
DIABETES AND ENDOCTINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 COA		142,944
DIABETES AND ENDOCTINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 COE		134,015
DIABETES AND ENDOCTINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06 SC2		72,909

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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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
DIABETES AND ENDOCTINOLOGY RESEARCH CENTER	93.847	5 P30 DK063608-06	SC3	37,160
GLUCOSE-INDUCED GENES REGULATING PANCREATIC B-CELL MASS	93.847	5 K08 DK063061-05		3,943
HORMONES: BIOCHEMISTRY & MOLECULAR BIOPHYSICS	93.847	5 T32 DK07328-29		328,782
HORMONES: BIOCHEMISTRY AND MOLECULAR BIOLOGY	93.847	5 T32 DK07328-30		8,416
HORMONES--BIOCHEMISTRY AND MOLECULAR BIOLOGY	93.847	5 T32 DK07328-28		3,839
HORMONES--BIOCHEMISTRY AND MOLECULAR BIOLOGY	93.847	5 T32 DK07328-28	SUP	187
HUMAN ISLET ANTIGEN DISCOVERY AND IMAGING	93.847	5 R01 DK063567-05		165,753
LEPTIN AS A REGULAR OF BONE MASS	93.847	5 R01 DK058883-07		322,566
LEPTIN PRODUCTION AND ACTION IN ADIPOCYTES IN ADIPOCYTES	93.847	5 R01 DK063034-05		146,913
LINKAGE AND SEGREGATION IN COMPLEX GENETIC DISEASES	93.847	5 R01 DK031813-21		105,148
MACROPHAGE PHENOTYPE AND FUNCTION IN ADIPOSE TISSUE	93.847	2 R01 DK066525-04		-24,493
MECHANISMS OF BETA CELL FAILURE	93.847	2 R01 DK064819-06A1		335,109
MECHANISMS OF INTRACELLULAR MEMBRANCE FUSION	93.847	5 R37 DK27044-32		137,066
METABOLIC PATTERNS IN 1H NMR SPECTRA OF BIOFLUIDS	93.847	5 R33 DK070301-03		86,235
METABOLIC PATTERNS IN 1H NMR SPECTRA OF BIOFLUIDS	93.847	5 R33 DK070301-03	SUP	22,772
METABOLIC PATTERNS IN 1H NMR SPECTRA OF BIOFLUIDS	93.847	5 R33 DK070301-03	SC1	16,326
MOLECULAR GENETIC ANALYSIS OF HUMAN OBESITY	93.847	2 R01 DK052431-06		281,424
MOUSE MODELS OF INSULIN RESISTANCE	93.847	5 R01 DK058282-08		344,621
NEIGHBORHOOD ENVIRONMENTS AND DISPARITIES IN OBESITY RATES IN NEW YORK CITY	93.847	1 R01 DK079885-01A2		13,934
NEIGHBORHOOD ENVIRONMENTS AND DISPARITIES IN OBESITY RATES IN NEW YORK CITY	93.847	1 R01 DK079885-01A2	SC1	11,069
NEW APPROACHES TO EVALUATION AND TREATMENT OF ACROMEGALY	93.847	5 R01 DK064720-04		290,132
NON-CLASSICAL MANIFESTATIONS OF PRIMARY HYPERPARATHYROIDISM	93.847	5 K24 DK074457-02		146,472
NOTCH AND INSULIN SIGNALING INTERACTIONS IN ADIPOGENESIS AND ANGIOGENESIS	93.847	5 K01 DK074629-02		94,854
PATHOGENIC ROLE OF ISLET CELL ABS IN AUTOIMMUNE DIABETES	93.847	5 R01 DK070999-02		272,987
PATHOGENIC ROLE OF ISLET CELL ABS IN AUTOIMMUNE DIABETES	93.847	5 R01 DK070999-02	SUP	42,719
PET IMAGING OF HUMAN BETA CELL MASS	93.847	5 R01 DK077493-02		306,033
PRIMARY HYPERPARATHYROIDISM	93.847	2 R01 DK032333-24A2		318,103
PRIMARY HYPERPARATHYROIDISM	93.847	5 R01 DK032333-23		39,536
PRIMARY HYPERPARATHYROIDISM - NON-CLASSICAL MANIFESTATIONS	93.847	5 R01 DK066329-03		440,397
REGULATION OF ENERGY METABOLISM BY AN OSTEOBLAST-SPECIFIC GENE	93.847	5 R01 DK078042-2		319,798
REGULATION OF GLUT4 EXOCYTOSIS	93.847	1 K99 DK080080-01		77,762
ROLE OF FORKHEAD PROTEINS AND SIRTUINS IN METABOLISM	93.847	1 F32 DK079496-01		7,579
ROLE OF FORKHEAD PROTEINS IN INSULIN ACTION	93.847	5 R01 DK057539-07		560,719
STEROL SENSING AND TRANSPORT IN A MODEL EUKARYOTE	93.847	5 R01 DK054320-09		303,473
STRUCTURAL BIOLOGY OF ENZYMES IN FATTY ACID METABOLISM	93.847	2 R01 DK067238-05A2		116,569
STUDIES OF FOLLICLE STIMULATING HORMONE, FOLLICLE STIMULATING HORMONE ANALOGUES AND RECEPTOR	93.847	5 R01 DK063224-05		292,638
THE CENTRAL MELANOCORTIN SYSTEM AND REGULATION OF ENERGY BALANCE	93.847	1 R01 DK080003-01		334,318
THE DROSOPHILA MIDGUT: A MODEL OF HUMAN INTESTINAL STEM CELLS AND THEIR PROGENY	93.847	1 R01 DK082456-01R1		40,833
TRAINING GRANT IN PEDIATRIC ENDOCRINOLOGY	93.847	5 T32 DK065522-04		175,248
TRAINING GRANT IN PEDIATRIC ENDOCRINOLOGY	93.847	5 T32 DK065522-03		38,559

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TRAINING GRANT IN PEDIATRIC ENDOCRINOLOGY	93.847	3 T32 DK065522-04S1		27,501
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	5 T32 DK007271-30		343,896
TRAINING PROGRAM IN ENDOCRINOLOGY AND METABOLISM	93.847	5 T32 DK007271-29		4,021
TWO-LOCUS MODELS, HETEROGENEITY AND DIABETES	93.847	5 R01 DK031775-24		128,827
WNT REGULATION OF BONE MASS	93.847	5 R01 DK067936-03		260,992
ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHOR	93.848	5 U01 DK062483-07		195,480
ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHORT STUDY	93.848	5 U01 DK062483-06		26,886
ADULT TO ADULT LIVING DONOR LIVER TRANSPLANTATION COHORT STUDY	93.848	5 U01 DK062483-05		1,232
BARIATRIC SURGERY, GASTRIC STIMULATION--METABOLIC EFFECTS	93.848	5 R01 DK072011-03		273,644
BARIATRIC SURGERY FOR MORBID OBESITY: CLINICAL AND PATHOPHYSIOLOGIC CONSEQUENCES	93.848	5 R01 DK072526-02		480,081
BARIATRIC SURGERY: OUTCOMES & IMPACT ON PATHOPHYSIOLOGY	93.848	5 UO1 DK066667-06		317,051
CAROTENE CLEAVAGE ENZYME--PROPERTIES AND PHYSIOLOGY	93.848	5 R01 DK061310-05		30,551
EFFECTS OF LEPTIN ON BODY WEIGHT AND NEUROENDOCRINE AXES AFTER GASTRIC BYPASS	93.848	1 R21 DK081050-01		174,952
EXTRAHEPATIC RETINOID PHYSIOLOGY	93.848	5 R01 DK067512-04		290,866
FACILITATED UPTAKE OF LONG CHAIN FATTY ACIDS IN OBESITY	93.848	5 R01 DK052401-09		307,239
FUNCTION AND REGULATION OF GASTRIN	93.848	5 R01 DK052778-10		83,491
GRADUATE TRAINING IN NUTRITION	93.848	3 T32 DK007647-19		209,269
GRADUATE TRAINING IN NUTRITION	93.848	5 T32 DK007647-19	SC1	37,754
GRADUATE TRAINING IN NUTRITION	93.848	3 T32 DK007647-18S1		11,880
LEPTIN IN HUMAN ENERGY AND NEUROENDOCINE HOMEOSTASIS	93.848	2 R01 DK064773-05		346,960
LEPTIN IN HUMAN ENERGY AND NEUROENDOCRINE HOMEOSTASIS	93.848	5 R01 DK064773-04		2,802
MOLECULAR GENETIC ANALYSIS OF HUMAN OBESITY	93.848	5 R01 DK052431-15		582,000
MOLECULAR GENETIC ANALYSIS OF HUMAN OBESITY	93.848	5 R01 DK052431-13	SUP	43,596
POSTPRANDIAL VITAMIN A	93.848	5 R01 DK068437-04		264,391
REGULATION OF HISTIDINE DECARBOXYLASE	93.848	5 R01 DK048077-14		381,644
ROLE OF MCH IN ADIPOSE TISSUE & INTESTINAL INFLAMMATION	93.848	7 F32 DK076412-03		6,854
STRUCTURAL STUDIES AND FUNCTIONAL REGULATION OF KLF4	93.848	5 KO1 DK069489-02		-8,236
THE ENOCANNABINOID SYSTEM IN HEPATIC INJURY AND FIBROSIS	93.848	1 R01 DK0758301A1		424,401
THE FUNCTION AND REGULATION OF TREFOIL FACTOR FAMILY 2 (TFF2)	93.848	2 R01 DK060758-07A1		283,878
THE ROLE OF GATA 4 IN EXOCRINE PANCREAS DEVELOPMENT	93.848	7 R01 DK064146-06		250,243
VITAMIN STORAGE AND METABOLISM	93.848	1 R01 DK079221-01		520,783
AFRICAN AMERICAN STUDY OF KIDNEY DISEASE AND HYPERTENSION COHORT	93.849	5 U01 DK065446-04	SUP	18,783
AFRICAN AMERICAN STUDY OF KIDNEY DISEASE AND HYPERTENSION COHORT	93.849	5 U01 DK065446-04		-14,285
BONE QUALITY AND MECHANICAL COMPETENCE IN CHRONIC KIDNEY DISEASE	93.849	1K23DK080139-01A1		158,147
CYTOKINES CONVERT EPITHELIAL PRECURSORS TO NEPHRONS	93.849	5 R01 DK058872-07		415,558
GENETIC ANALYSIS OF PEA3 TRANSCRIPTION FACTORS AND KIDNEY DEVELOPMENT	93.849	5 R01 DK075578-02		539,914

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GENETIC DETERMINANTS OF HUMAN NON - SYNDROMIC URINARY TRACT MALFORMATIONS	93.849	1 R21 DK0771608-01A1		173,288
GENETIC DETERMINANTS OF VESICoureTERAL REFLUX	93.849	5 R21 DK073903-02		30,503
GENETICS OF RENAL HYPODYSPLASIA	93.849	1 R01 DK080099-01		408,521
HIGH TC SUCEPTOMETER FOR MAGNETIC MEASURE OF BODY IRON	93.849	5 R01 DK057209-05		557,566
HIGH TC SUCEPTOMETER FOR MAGNETIC MEASURE OF BODY IRON	93.849	5 R01 DK057209-05	TOS	7,221
IDENTIFICATION AND FUNCTIONAL ANALYSIS OF RENAL STEM CELLS	93.849	1 K08 DK078014-01A1		170,763
IRON LIPCALIN IN KIDNEY DISEASE	93.849	5 R01 DK07346202		164,559
MAGNETIC RESONANCE MEASUREMENT OF HEART AND LIVER IRON	93.849	5 R01 DK066251-04		181,364
MOLECULAR EVENTS IN URINARY TRACT FORMATION	93.849	2 R01 DK061459-06		348,801
MOLECULAR EVENTS IN URINARY TRACT FORMATION	93.849	5 R01 DK061459-05		44,265
MOLECULAR EVENTS IN URINARY TRACT FORMATION	93.849	2 R01 DK061459-06	PJ1	36,427
MOLECULAR EVENTS IN UROGENITAL DEVELOPMENT	93.849	5 P01 DK055388-10	PJ1	209,168
MOLECULAR EVENTS IN UROGENITAL DEVELOPMENT	93.849	5 P01 DK055388-10	PJ3	178,150
MOLECULAR EVENTS IN UROGENITAL DEVELOPMENT	93.849	5 P01 DK055388-10	PJ2	172,820
MOLECULAR EVENTS IN UROGENITAL DEVELOPMENT	93.849	5 P01 DK055388-10		27,440
MOLECULAR EVENTS IN UROGENITAL DEVELOPMENT	93.849	5 P01 DK055388-09	PJ4	-3,049
MOLECULAR EVENTS IN UROGENITAL DEVELOPMENT	93.849	5 P01 DK055388-10	PJ4	188,410
PROGENITOR CELLS OF THE MOUSE PROSTATE EPITHELIUM	93.849	7 R01 DK076602-03		418,073
RAGE AND GLOMERULOSCLEROSIS	93.849	5 R01 DK064084-05		-120,143
RENAL PROTECTION WITH A1 ADENOSINE RECEPTORS	93.849	5 R01 DK058547-07		298,705
ROLE OF RAGE IN DIABETIC VASCULOPATHY AND NEPHROPATHY	93.849	5 F32 DK073645-03		48,796
ROLE OF RAGE IN DIABETIC VASCULOPATHY AND NEPHROPATHY	93.849	5 F32 DK076345-02		0

Child Health and Human Development Extramural Research

IDENTIFICATION OF NOVEL GENES FOR CONGENITAL DIAPHRAGMATIC HERNIA	93.865	1 R01 HD057036-01		246,329
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Total Direct Award Programs: Nat. Inst. of Diabetes & Digestive & Kidney Diseases

21,666,488

Nat. Inst. of Nursing Research

Research and Training in Complementary and Alternative Medicine

ACUPUNCTURE FOR CHRONIC NAUSEA IN PTS WITH HIV: A RCT	93.213	5 R01 NR009364-03		381,789
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Nursing Research

A MULTIFACETED ADAPTIVE TESTING APPROACH TO HEALTH LITERACY IN OLDER ADULTS	93.361	1 R21 NR010710-01		210,228
CENTER FOR EVIDENCE-BASE PRACTICE IN THE UNDERSERVED--CEBP	93.361	5 P30 NR010677-02		369,572
CENTER FOR EVIDENCE-BASE PRACTICE IN THE UNDERSERVED--CEBP	93.361	5 P30 NR010677-02 SC SC2		47,469
CENTER FOR EVIDENCE-BASE PRACTICE IN THE UNDERSERVED--CEBP	93.361	5 P30 NR010677-02 SC SC1		27,995
CENTER FOR EVIDENCE-BASE PRACTICE IN THE UNDERSERVED--CEBP	93.361	5 P30 NR010677-02	SC3	16,828
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-01	SC3	6,730

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CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-01		4,188
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-01	SC2	2,280
CENTER FOR EVIDENCE-BASED PRACTICE IN THE UNDERSERVED (CEBP)	93.361	5 P30 NR010677-01	SC1	1,450
DISTRIBUTION OF THE COSTS OF ANTIMICROBIAL RESISTANT INFECTION	93.361	5 R01 NR010822-3		184,711
DISTRIBUTION OF THE COSTS OF ANTIMICROBIAL RESISTANT INFECTION	93.361	1 R01 NR010822-01	SC1	178,748
ELECTRONIC COMMUNICATION FOR ANTIMICROBIAL MANAGEMENT (ECAM)	93.361	1 R21 NR010823-01		233,095
FROM CELL TO SOCIETY: A NEW METHOD TO CHARACTERIZE CARDIAC AUTONOMIC CONTROL	93.361	1 R21 NR010858-01		266,398
HIV, LIPIDS AND DIETARY STRATEGIES	93.361	5 R03 NR009476-02		63,196
IMPROVING ANTIMICROBIAL PRESCRIBING PRACTICES IN THE NEONATAL INTENSIVE CARE UNIT	93.361	1 R01 NR010821-01		319,769
IMPROVING ANTIMICROBIAL PRESCRIBING PRACTICES IN THE NEONATAL INTENSIVE CARE UNIT	93.361	1 R01 NR010821-01	SC SC1	187,176
MATERNAL AND CHILD OUTCOMES OF A PRISON NURSERY PROGRAM	93.361	2 R01 NR007782-05A1		228,810
MATERNAL AND CHILD OUTCOMES OF A PRISON NURSERY PROGRAM	93.361	5 R01 NR007782-04R1		26,140
MOBILE DECISION SUPPORT FOR ADVANCED PRACTICE NURSING	93.361	5 R01 NR008903-03	SC1	-18
MOBILE DECISION SUPPORT FOR ADVANCED PRACTICE NURSING	93.361	5 R01 NR008903-03		-2,735
PREVENTION OF NOSOCOMIAL INFECTIONS AND COST-EFFECTIVENESS ANALYSIS	93.361	1 R01 NR010107		484,921
PSYCHOLOGICAL SYMPTOMS AND ORAL CONTRACEPTIVE DISCONTINUATION IN YOUNG MINORITIES	93.361	1 F31 NR011119-01A1		20,976
REDUCING HEALTH DISPARITIES THROUGH INFORMATICS	93.361	5 T32 NR007969-07		202,881
REDUCING HEALTH DISPARITIES THROUGH INFORMATICS	93.361	2 T32 NR07969-06		3,547
REDUCING HEALTH DISPARITIES THROUGH INFORMATICS	93.361	5 T32 NR07969-08		487
SELF - CARE IN YOUTH WITH PERINATALLY - ACQUIRED HIV	93.361	5 R21 NR009350-02		12,451
TRAINING IN INTERDISCIPLINARY RESEARCH TO REDUCE ANTIMICROBIAL RESISTANCE	93.361	5 T90 NR010824-02		220,813
TRAINING IN INTERDISCIPLINARY RESEARCH TO REDUCE ANTIMICROBIAL RESISTANCE	93.361	1 T90 NR010824-01		2,844
UTILITY OF TRANS TELEPHONIC MONITORING IN THE DETECTION OF SILENT ARRHYTHMIAS	93.361	5 R03 NR010001-02		23,102

Total Direct Award Programs: Nat. Inst. of Nursing Research

3,725,841

National Library of Medicine

Medical Library Assistance

BRIDGING THE SEMANTIC GAP BETWEEN RESEARCH ELIGIBILITY CRITERIA AND CLINICAL DATA	93.879	1 R01 LM009886- 01A1		13,688
A BIOMEDICAL NATURAL LANGUAGE PROCESSING RESOURCE	93.879	5 R01 LM008635-03		420,337
ADVANCE PRACTICE NURSING ACCESS TO ELECTRONIC RESOURCES FOR SAFETY AND QUALITY	93.879	5 G08 LM008588-02		70,759
CAPTURING AND LINKING GENOMIC AND CLINICAL INFORMATION	93.879	5 R01 LM007659-04		49,826
DIABETIC FOOT AND PRESSURE ULCER DATABANK	93.879	5 R01 LM008443-03		15,372
DISCOVERING AND APPLYING KNOWLEDGE IN CLINICAL DATABASES	93.879	5 R01 LM006910-08		410,630
EVALUATION OF THE IMPACT OF HEALTH INFORMATION EXCHANGE ON EMERGENCY MEDICINE	93.879	1 K99 LM009556-01		141,006
GETTING AWAY WITH MURDER? A SOCIAL AND CULTURAL HISTORY OF DRUNK DRIVING	93.879	1 G13 LM009702-01		82,530
IMPROVE PREDICTIONS OF STRUCTURE/FUNCTION BY PROTEIN	93.879	2 R01 LM007329-05		247,318
INFOBUTTONS TO IMPROVE CLINICIAN'S ACCESS TO INFORMATION	93.879	5 R01 LM007593-05		329,662
LIBRARIAN INFOBUTTON TAILORING ENVIRONMENT	93.879	1 G08 LM009376-01		116,264
MEDICAL INFORMATICS RESEARCH TRAINING PROGRAM AT COLUMBIA	93.879	2 T15 LM007079-16		40,187

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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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
NLM EARLY CAREER DEVELOPMENT AWARD--AUTOMATED DETECTION OF MEDICAL ERRORS, ADVERSE EVENTS & PATHWAY DEVIATIONS	93.879	5 K22 LMM008805-3		23,128
NLM EARLY CAREER DEVELOPMENT AWARD--AUTOMATED DETECTION OF MEDICAL ERRORS, ADVERSE EVENTS AND PATHWAY DEVIATIONS	93.879	5 K22 LMM008805-2		144
SEMANTIC AND MACHINE LEARNING METHOS FOR MINING CONNECTIONS IN THE UMLS	93.879	1 R21 LM009638-01		134,306
SIDEWALK ASYLUMS: A HISTORY OF HOMELESSNESS AND MENTAL ILLNESS IN NEW YORK AND LA	93.879	1 G13 LM009707-01		42,679
THE CONTEMPORARY HISTORY OF PUBLIC HEALTH IN NEW YORK CITY	93.879	5 G13 LM009159-02		9,120
THE REACH OF ETHICS: POLITICS, BIOETHICS & THE REGULATION OF SOCIAL INQUIRY	93.879	1 G13 LM009241-01A1		63,118
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	5 T15 LM007079-17		1,007,001
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	3 T15 LM007079-17		192,454
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMBIA UNIVERSITY	93.879	5 T15 LM007079-18		71,435
TRAINING IN BIOMEDICAL INFORMATICS AT COLUMIBA UNIVERSITY - SUPPLEMENT	93.879	2 T15 LM007079-16	SC1	57,879
Total Direct Award Programs: National Library of Medicine				3,538,843
Nat. Inst. for Complementary & Alternative Med. Research and Training in Complementary and Alternative Medicine				
ACUPUNCTURE/MOXIBUSTIONS FOR PEROPHERAL IN PTS WITH HIV	93.213	5 R21 AT0030902-03		214,678
ANTICANCER POTENTIAL OF BLACK COHOSH ON BREAST CANCER	93.213	5 K01 AT001692-03		18,270
CHOLINE TREATMENT FOR INFLAMMATORY PAIN	93.213	1 R21 AT004708-01A1		7,727
NATURAL PRODUCT THERAPEUTICS IN ALZHEIMER'S DISEASE	93.213	5 R01 AT002643-04		207,974
Total Direct Award Programs: Nat. Inst. for Complementary & Alternative Med.				448,649
Nat. Inst. on Alcohol Abuse & Alcoholism Alcohol Research Career Development Awards for Scientists and Clinicians				
EPIDEMIOLOGIC STUDIES OF ALCOHOL USE DISORDERS	93.271	5 K05 AA014223-05		4,815
EPIDEMIOLOGIC STUDIES OF ALCOHOL USE DISORDERS (ONGOING)	93.271	2 K05 AA014223-06		148,877
Alcohol Research Programs				
HIV/STI PREVENTION AMONG ALCOHOL ABUSING WOMEN IN MONGOLIA	93.273	1 R21 AA01628601-01A		190,977
ALCOHOL AND GABA IN THE THALAMUS	93.273	7 R01 AA016393-03		130,639
ALCOHOL IN AVIATION AND MOTOR CARRIERS	93.273	7 RO1 AA009963-13		384,720
BRIEF ALCOHOL AND HIV PREVENTION FOR HOMELESS ADOLESCENTS WHO EXITED FOSTER CARE	93.273	1 R21 AA017862-01		101,803
COMBINED TREATMENT OF ALCOHOL DEPENDENT WOMEN WITH PTSD	93.273	5 R01 AA014341-02		-84,171
COMBINED TREAUMENT OF ALCOHOL DEPENDENT WOMEN WITH PTSD	93.273	3 R01 AA014341-02S1 A		10,555
DORSAL RAPHE NUCLEUS SEROTONIN NEURONS IN ALCOHOLISM	93.273	2 R01 AA011293-09A2		187,853
ECONOMICALLY DISADVANTAGED YOUTH AND ALCOHOL ABUSE B1551PREVENTION	93.273	5 R01 AA011924-08		573,895
HIGH-USE ALCOHOL VENUES: TOURISM, SEX WORK AND HIV IN THE DOMINICAN REPUBLIC	93.273	1 R21 AA018078-01		122,684
Total Direct Award Programs: Nat. Inst. on Alcohol Abuse & Alcoholism				1,772,647

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
National Institute on Drug Abuse				
Mental Health Research Grants				
5-HT1A RECEPTOR ANTI-APOPTOTIC TRANSDUCTION PATHWAYS IN SUICIDE	93.242	1 R01 MH079439-01A2		373,093
A FAMILY-BASED ECONOMIC EMPOWERMENT MODEL FOR ORPHANED CHILDREN IN UGANDA	93.242	1 R34MH081763-01A2		237,754
ANALYZE: SOFTWARE FOR JOINT LINKAGE AND LD ANALYSIS	93.242	5 R01 MH063749-05		268,614
ANALYZING THE ROLE OF ADULT HIPPOCAMPAL NEUROGENESIS IN CONTEXTUAL FEAR MEMORY	93.242	1 K99 MH083943-01		73,030
APPROACH/AVOIDANCE ORIENTATIONS AND OPERATIONS	93.242	5 R01 MH039429-24		206,001
ASSET OWNERSHIP DEVELOPMENT AMON HIV ORPHANED CHILDREN	93.242	5 R21 MH076475-02		3,231
AUTOMATED FALL AND INJURY RISK ASSESSMENT FOR BEHAVIORAL HEALTH (AFIP-BH)	93.242	1 R03 MH078071-01		74,134
BIOLOGICAL PREDICTORS OF RESPONSE TO ANTIDEPRESSANTS	93.242	5 R01 MH074813-02		526,972
BRAIN PATHWAYS IN SOCIAL EVALUATIVE THREAT	93.242	1 R21 MH082308-01A1		11,503
BUILDING TRANSLATIONAL RESEARCH IN OBSESSIVE-COMPULSIVE DISORDER	93.242	1 R24 MH080022-01A1		259,176
CHARACTERIZATION OF A NOVEL 5-HT1A RECEPTOR AGONIST PET LIGAND	93.242	5 K08 MH076258-02		199,172
CHILDREN OF DEPRESSED MOTHERS, A STAR'D ANCILLARY STUDY	93.242	5 R01 MH063852-05		23,269
COGNITIVE MECHANISMS OF SERIALY ORGANIZED BEHAVIOR	93.242	1 R01 MH081153-01A1		392,953
COMPLICATED GRIEF TREATMENT IN ELDERLY ADULTS	93.242	1 R01 MH070741-01A2		531,034
COMPLICATED GRIEF TREATMENT IN ELDERLY ADULTS	93.242	1 R01 MH070741-01A1	PSY	114,162
CONSISTENCY IN SOCIAL BEHAVIOR	93.242	5 R37 MH039349-24		269,367
COOPERATIVE CLINICAL AGREEMENT: HIV/AIDS RISK REDUCTION FOR AFRICAN AMERICAN COUPLES	93.242	5 U10 MH064395-07		362,334
COOPERATIVE CLINICAL AGREEMENT: HIV/AIDS RISK REDUCTION FOR AFRICAN AMERICAN COUPLES	93.242	5 U10 MH064395-08		262,421
COOPERATIVE CLINICAL AGREEMENT: HIV/AIDS RISK REDUCTION FOR AFRICAN AMERICAN COUPLES	93.242	2 U10 MH064395-06		6,411
CYTOKINE-INDUCED DEPRESSION & THE SEROTONIN TRANSPORTER	93.242	5 R21 MH067693-03		76,317
DEVELOPMENT OF AGONIST PET PROBES FOR QUANTIFYING 5-HT1A RECEPTOR BINDING	93.242	5 R21 MH077161-02		48,744
DEVELOPMENT OF MULTIMODAL TREATMENT FOR LATE LIFE GENERALIZED ANXIETY DISORDER	93.242	5 R34 MH077156-2		208,007
DEVELOPMENTAL NEUROSCIENCE AND BEHAVIOR	93.242	2 T32 MH018264-25		225,399
DEVELOPMENTAL NEUROSCIENCE AND BEHAVIOR	93.242	5 T32 MH018264-26		649
DOCTORAL DISSERTATION: FOSTER PARENTING STYLES AND ADOLESCENT MENTAL HEALTH STATUS	93.242	1 R36 MH082614-01		19,670
ELUCIDATING THE EFFECT OF DISC1 DEFICIENCY ON NEURODEVELOPMENT AND COGNITION	93.242	1 R01 MH080234-01		345,905
ELUCIDATION OF GENE NETWORKS UNDERLYING SUSCEPTIBILITY TO SCHIZOPHRENIA	93.242	5 R01 MH077235-02		268,138
ELUCIDATION OF GENE NETWORKS UNDERLYING SUSCEPTIBILITY TO SCHIZOPHRENIA	93.242	5 R01 MH077235-02	SC1	23,037
FUNCTIONAL ANALYSIS OF 22Q11 SCHIZ. SUSCEPTIBILITY GENES	93.242	2 R01 MH067068-06	SC1	295,883
FUNCTIONAL ANALYSIS OF 22Q11 SCHIZ. SUSCEPTIBILITY GENES	93.242	2 R01 MH067068-06		231,388
FUNCTIONAL ANALYSIS OF 22Q11 SCHIZ. SUSCEPTIBILITY GENES	93.242	7 R01 MH067068-05		-536
FUNCTIONAL IMAGING OF DECISION NETWORKS	93.242	1 R21 MH073821-01A1		159,628
FUTURE SUICIDE ATTEMPT: PSYCHOBIOLOGICAL FEATURES	93.242	2 R01 MH048514-16A2		113,583
GENE EXPRESSION ANALYSIS OF APLYSIA NEURAL NETWORK	93.242	5 R01 MH075026-03		561,722
GENETIC ANALYSIS: PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.242	5 T32 MH065213-07		188,106
GENETIC ANALYSIS--PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.242	2 T32 MH065213-06		8,608
GENETIC AND ENVIRONMENTAL MODULATION OF RNA EDITING	93.242	5 R01 MH078993-02 R1		329,648

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GENETIC STUDIES OF FEAR AND ANXIETY	93.242	5 P01 MH060970-04	PRI	-28,154
GROUP IPT-A IN SCHOOL-BASED CLINICS	93.242	5 R01 MH073640-03		206,512
HCN1 CHANNELS IN HIPPOCAMPAL FUNCTION AND SPATIAL MEMORY	93.242	5-R01 MH080745-2		167,113
HIPPOCAMPAL NEUROGENESIS: MECHANISMS OF ANTIDEPRESSANT ACTION	93.242	5 KO8 MH076083-02		156,835
IMAGING THE SEROTONIN SYSTEM IN OBSESSIVE-COMPULSIVE DISORDER	93.242	5 R01 MH073915-3		464,442
MAPPING GENES FOR SCHIZOPHRENIA IN A FOUNDER POPULATION	93.242	5 R01 MH061399-07		327,591
MENTAL-ILLNESS STIGMA AND STATUS PROCESSES IN INTERPERSONAL INTERACTIONS	93.242	1 R01 MH079162-01A1		258,607
METACOGNITION AND CONTROL IN HUMAN LEARNING MEMORY	93.242	5 R01 MH060637-05		194,237
MOTIVATION AND LEARNING IN SCHIZOPHRENIA	93.242	7 R03 MH071733-02		43,678
MULTI-TIMESCALE CASCADE MODELS OF SYNAPTIC PLASTICITY	93.242	5 R01 MH058754-10		166,750
NEURAL MECHANISMS OF INCREASED ANXIETY IN SEROTONIN 1A RECEPTOR-DEFICIENT MICE	93.242	1 R01 MH081968-01A1		231,242
NEURAL MECHANISMS UNDERLYING SIMPLE AND COMPLEX REINFORCEMENT	93.242	1 F32 MH0816620-01		-358
NEURAL MECHANISMS UNDERLYING SIMPLE AND COMPLEX REINFORCEMENT LEARNING	93.242	5 F31 MH081620-02		35,023
NEUROBEHAVIORAL SCIENCES RESEARCH TRAINING PROGRAM	93.242	5 T32 MH015174-32		195,073
NEUROBEHAVIORAL SCIENCES RESEARCH TRAINING PROGRAM	93.242	5 T32 MH015174-31		2,484
NEUROBIOLOGY OF DEPRESSION AND ANTIDEPRESSANTS	93.242	5 R01 MH040695-17		67,542
NEUROPHYSIOLOGICAL CORRELATES OF EMOTIONAL MODULATION OF VISUAL PERCEPTION	93.242	1 F31 MH082612-01A1		38,972
NEUROPHYSIOLOGY UNDERLYING NEURAL REPRESENTATIONS OF VALUE	93.242	1 R01 MH082017-01A1		328,404
OCD COLLABORATIVE GENETICS ASSOCIATION STUDY	93.242	1 R01 MH079488-01A1		246,073
PARENTAL REMISSION FROM DEPRESSION AND CHILD PSYCHOPATHOLOGY	93.242	1 R01 MH08225501		629,722
PAROXETINE/BUPROPION IN SUICIDE ATTEMPTERS/IDEATORS WITH MAJOR DEPRESSION	93.242	5 K23 MH076049-03		179,981
POSTMORTEM NEUROCHEMICAL STUDIES IN SUICIDE	93.242	2-R01-MH040210-23		426,613
PROJECT 3	93.242	5 P01 MH060970-04	SC3	2,455
PROTEIN KINASE C CONTROLS SYNAPTIC ACTION AND BEHAVIOR	93.242	5 R01 MH048850-14		73,484
PSYCHIATRIC GENETICS AND FAMILY STUDIES: ROBUST METHODS	93.242	5 R01 MH48858-12		127,387
PSYCHOBIOLOGICAL PREDICTORS OF SUICIDAL BEHAVIOR IN MAJOR DEPRESSIVE EPISODES	93.242	5 R01 MH048514-15		4,779
PSYCHOBIOLOGY OF EATING BEHAVIOR IN EATING DISORDERS	93.242	5 R01 MH042206-20		133,889
PSYCHOTHERAPY FOR PRENATAL DEPRESSION--MATERNAL & FETAL EFFECTS	93.242	5 R34 MH072838-03		59,174
REJECTION SENSITIVITY AND SELF-REGULATION IN PERSONALITY DISORDERS	93.242	5 R01MH081948-02		560,593
RESEARCH TRAINING IN CHILD PSYCHIATRY	93.242	5 T32 MH016434-29		440,816
RESEARCH TRAINING IN CHILD PSYCHIATRY	93.242	5 T32 MH016434-28		3,244
ROLE OF KLF9 IN HIPPOCAMPAL CIRCUIT MATURATION AND ANXIETY BEHAVIOR	93.242	1 F31 MH081473-01A2		33,032
SCN NETWORKS AND EFFERENT SIGNALS	93.242	5 R01 MH075045-02		396,612
SELF-REGULATORY CONTROL AND HABIT LEARNING IN ADOLESCENTS WITH BULIMIA NERVOSA	93.242	5 K01 MH077652-02		225,560
SRVCS RSCH INNOVATIONS FOR HOMELESS MENTALLY ILL WHO ARE HOMELESS & MENTALLY ILL:TRAJECTORY ANALYSIS TECHNIQUES	93.242	5 R34 MH073651-03		77,717
STIGMA AND PSYCHOSIS: A PROSPECTIVE STUDY	93.242	5 R21 MH074996-02		118,975
THE CELLULAR CONTRIBUTION OF THE NEUROLIGIN 3 POST SYNAPTIC ADHESION COMPLEX AT GLUTAMATERGIC AND GA	93.242	5 F30 MH083473-02		21,838
THE ROLE OF NEURONAL INTEGRATION IN WORKING MEMORY	93.242	5 R01 MH045923-17		281,428
TREATING CHILDREN WITH TRAUMA: AN EVIDENCE BASED CURRICULUM	93.242	1 R25MH084786-01		25,160
UNDERSTANDING THE NEURONAL FUNCTION OF DYSBINDIN	93.242	5 F31 MH079775-03		40,905

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UNDERSTANDING THE NEURONAL FUNCTION OF DYSBINDIN	93.242	5 F31 MH079775-02		938
USING MULTIMEDIA AND DIGITAL TECHNOLOGIES IN THE DISSEMINATION OF AN HIV/STI PREVENTION INTERVENTION	93.242	5 R01 MH080659-02A1		720,500
USING MULTIMEDIA AND DIGITAL TECHNOLOGIES IN THE DISSEMINATION OF AN HIV/STI PREVENTION INTERVENTION	93.242	5 R01 MH080659-02A1	SC1	182,700
MEN WHO HAVE SEX WITH MEN AND WOMEN - PATHWAYS, MOTIVE AND HIDDEN BEHAVIORS	93.242	5 R01 MH076680-02		785,543
ANTICONVULSANT PHARMACOTHERAPY FOR SEDATIVE-HYPNOTIC USE DISORDERS	93.277	5 K23 DA021209-04		183,057
BRIDGING EFFICACY AND EFFECTIVENESS IN DRUG ABUSE TREATMENT	93.277	1 K02 DA023200-01A1		123,736
DRUG ABUSE TREATMENT DEVELOPMENT AND RESEARCH MENTORING	93.277	1 K24 DA022412-01		177,258
EPIDEMIOLOGICAL/FAMILIAL ASPECTS OF DRUG USE	93.277	5 K05 DA000081-26		132,545
IMPROVING DRUG ABUSE TREATMENT BY RESEARCH AND TRAINING	93.277	5 K05 DA14284-07		123,747
MOLECULAR DETERMINANTS FOR THE ACTION OF PSYCHOSTIMULANTS	93.277	1 K05 DA022413-01A1		123,735
NEUROPSYCHOLOGICAL EFFECTS OF BINGE-SMOKED COCAINE	93.277	5 K01 DA019933-02		175,706
PARENT-CHILD INTERACTINONS DURING ADDICTION TREATMENT	93.277	5 K23 DA014572-05		-25,485
COUPLES-BASED HIV/STI PREVENTION FOR INJECTING DRUG USERS IN KAZAKHSTAN	93.278	1R01DA022914-01A2	OFF	76,338
RESEARCH FELLOWSHIP IN SUBSTANCE ABUSE DISORDERS	93.278	5 T32 DA007294-15		1,058
UNDERSTANDING RISK-TAKING BEHAVIOR: ACUTE OF INTRANASAL METHAMPHETAMINE	93.278	5 F31 DA023883-02		36,772
UNDERSTANDING RISK-TAKING BEHAVIOR: ACUTE OF INTRANASAL METHAMPHETAMINE	93.278	1 F32 DA023883-01		4,021
Drug Abuse and Addiction Research Programs				
CHILDREN AT HIGH AND AT LOW RISK FOR DEPRESSION	93.279	5 R01 MH036197-23		354,273
CHILDREN AT HIGH AND AT LOW RISK FOR DEPRESSION	93.279	5 R01 MH036197-23	SC1	100,785
A MOLECULAR ANALYSIS OF THE GATEWAY HYPOTHESIS IN MICE	93.279	1 R01 DA024001-01		451,172
ADOLESCENT VULNERABILITY TO PSYCHOSTIMULANTS: EFFECTS OF SEX AND FOOD RESTRICTION	93.279	1 K01 DA024115-01A1		176,796
AN EXPERIMENTAL MODEL OF HUMAN LANGUAGE AND COGNITION IN DRUG DEPENDENCE	93.279	2 K23 DA021850-01A1		186,729
ARCHAEL AND BACTERIAL HOMOLOGS OF DOPAMINE TRANSPORTER	93.279	5 R01 DA017293-05		53,594
BASIC NEUROSCIENCE TRAINING GRANT AT COLUMBIA UNIVERSITY	93.279	5 T32 DA016224-05		274,750
BASIC NEUROSCIENCE TRAINING GRANT AT COLUMBIA UNIVERSITY MEDICAL SCHOOL	93.279	5 T32 DA016224-04		419
BUPRENORPHINE FOR OPIOID DEPENDENCE IN PRIMARY CARE	93.279	5 K23 DA020000-03		27,872
CHANGES IN SUBSTANCE ABUSE PATTERNS FOLLOWING THE TERRORIST ATTACKS OF SEPT. 11	93.279	1 R03 DA023431-01		55,082
COGNITION IN COCAINE DEPENDENCE:ASSESSMENT AND THERAPY	93.279	5 K23 DA016743-05		142,021
COUPLES-BASED HIV/STI PREVENTION FOR INJECTING DRUG USERS IN KAZAKHSTAN	93.279	1R01DA022914-01A2		324,765
DRUG ABUSE PREVENTION: A MOTHER-DAUGHTER INTERVENTION	93.279	3 R01 DA017721-03		461,387
DRUG ABUSE PREVENTION: A MOTHER-DAUGHTER INTERVENTION	93.279	3 R01 DA017721-03	B	42,635
DRUG ABUSE PREVENTION: A MOTHER-DAUGHTER INTERVENTION	93.279	3 R01 DA017721-05S1	SUP	3,421
DRUG ABUSE, MENTAL ILLNESS, HOMELESSNESS AND HIV: EVALUATING MODELS OF CARE	93.279	1 R21 DA021122-01A2		234,991
ECSTASY "EPIDEMIC" AND YOUTH: TRENDS, COMORBIDITY, RISK AND PROTECTIVE FACTORS	93.279	5 R01 DA020733-03		202,506

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ECSTASY "EPIDEMIC" AND YOUTH: TRENDS, COMORBIDITY, RISK AND PROTECTIVE FACTORS	93.279	3 R01 DA020733-02S1 SC1		21,484
HEALTH AND PSYCHOSOCIAL NEED - CHILDREN WITH DEVELOPMENTAL DISABILITIES IN TIME OF HIV	93.279	1 R01 DA023697-01A1		637,447
HIV PREVENTION WITH HEROIN USING WOMEN SEX WORKERS IN TAJIKISTAN	93.279	5 R03 DA021108-02 SC1		11,363
HIV RISK AMONG HOMELESS MOTHERS	93.279	5 R01 DA019399-03		41,647
HIV/STI PREVENTION FOR DRUG-INVOLVED COUPLES	93.279	5 R01 DA016993-04		959,927
HIV/STI PREVENTION FOR DRUG-INVOLVED COUPLES	93.279	3 R01 DA016993-04S1 A		99,577
HIV/STI PREVENTION FOR DRUG-INVOLVED COUPLES	93.279	3 R01 DA016993-04S2 B		58,123
IMAGING DOPAMINE TRANSMISSION IN CANNABIS DEPENDENCE	93.279	5 R01 DA022455-02RV1		457,181
INTERACTION OF STRESS AND NICOTINE	93.279	5 K08 DA016396-03		199,168
INTRAVENOUS COCAINE ABUSE TREATMENT--A LABORATORY MODEL	93.279	5 R01 DA06234-15		358,128
MODAFINIL AND DRD4 GENOTYPE IN A HUMAN LABORTORY MODEL OF COCAINE RELAPSE	93.279	5 R01 DA023650-02		78,205
MULTIMEDIA HIV/STI PREVENTION FOR DRUG-INVOLVED FEMALE OFFENDERS	93.279	1 R01 DA025878-01 SCD		157,443
MULTIMEDIA HIV/STI PREVENTION FOR DRUG-INVOLVED FEMALE OFFENDERS	93.279	1 R01 DA025878-01		145,183
MULTI-SITE CONTROLLED TRIAL OF COCAINE VACCINE (6 OF 6) COLUMBIA UNIVERSITY SITE	93.279	1 R01 DA025250-01		222
NICOTINE DEPENDENCE IN EARLY ADULTHOOD	93.279	1 R01 DA026305-01A1		43,889
POSTTRAUMATIC STRESS DISORDER AND SUBSTANCE USE/ ABUSE N YOUTH	93.279	5 R01 DA016894-03		-2,406
PRESYNAPTIC MECHANISMS IN DOPAMINE NEUROTRANSMISSION	93.279	2 R01 DA007418-14		216,450
PSYCHOSTIMULANT SENSITIZATION AT THE SYNAPTIC LEVEL	93.279	5 K02 DA000356-09		123,732
RESEARCH FELLOWSHIP IN SUBSTANCE ABUSE DISORDER	93.279	2 T32 DA007294-16		322,929
ROLE OF DEPRESSION AND ANXIETY IN THE TOBACCO EPIDEMIC	93.279	5 R01 DA020892-03		257,401
SERVICE USE, ATI PROGRAM OUTCOMES, AND PRO-SOCIAL CHANGE	93.279	5 R01 DA019496-2		333,795
SEX DIFFERENCES & IMPULSIVITY: EFFECT OF DRUG HISTORY & STIMULANT ADMINISTRATION	93.279	1 K01 DA022282-01		145,631
SEX DIFFERENCES IN STRESS & IMPULSIVITY IN COCAINE ABUSERS	93.279	1 R01 DA021242-01A2		222,717
SHIELD CENTRAL ASIA: HIV PREVENTION WITH INJECTION DRUG USERS IN KYRGYZSTAN	93.279	1 R21 DA025432-01		113,132
SOCIAL NETWORKS OF S. AUREUS CARRIAGE AMONG DRUG USERS	93.279	5 R01 DA015018-05		365,540
SOCIAL PREDICTORS TRANSITION INTO INJECTION DRUG USE	93.279	5 R01 DA019964-03		337,006
SOCIAL PREDICTORS TRANSITION INTO INJECTION DRUG USE	93.279	5 R01 DA019964-03 SUP		5,282
THE TRANSITION TO NICOTINE DEPENDENCE IN ADOLESCENCE	93.279	5 R01 DA012697-05		56,873
TREATMENT OF SUBSTANCE ABUSE AND PSYCHIATRIC COMORBIDITY	93.279	5 K02 DA000465-08		123,743
WOMEN AND INFANTS TRANSMISSION STUDY (WITS IV)	93.279	5 U01 DA015053-12		1,101
Mental Health Research Career/Scientist Development Awards				
AN FMRI STUDY OF THE BRAIN CIRCUITRY OF SAD EMOTION IN BEREAVEMENT	93.281	1 K08 MH080377-01A2		102,706
BRAIN PATHOPHYSIOLOGY IN ANXIETY DISORDERS	93.281	5 K08 MH067015-04		219,768
BULIMIA NERVOSA AND DOPAMINE: A LINK TO ADDICTIONS?	93.281	1 K23 MH082097-01A1		155,231
COGNITIVE NEUROSCIENCE OF ANOREXIA NERVOSA	93.281	1 K23 MH076195-01A2		194,238
COMORBID CHILDHOOD ANXIETY AND ASTHMA: ORIGINS AND OUTCOMES	93.281	5 K23 MH64736-05		0
EE AND STIGMA AMONG CHINESE-AMERICANS WITH SCHIZOPHRENIA	93.281	5 K01 MH073034-04		143,311
EPIDEMIOLOGY OF PRENATAL EXPOSURES IN SCHIZOPHRENIA	93.281	5 K02 MH065422-05		-1,458
EPIDEMIOLOGY OF PRENATAL FACTORS AND ADULT PSYCHOPATHOLOGY	93.281	2 K02 MH065422-06		123,149

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EXCITATORY CONTROLS OF EATING IN EATING DISORDERS	93.281	5 K23 MH071285-03		176,497
IMPROVING CHILD PSYCHIATRISTS CLINICAL DECISION-MAKING	93.281	5 K23 MH07133704		177,808
MATERNAL POST TRAUMATIC STRESS DISORDER AND INTERACTIVE BEHAVIOR WITH CHILDREN	93.281	5 K23 MH068405-05		1,079
MRI IN CHILDHOOD NEUROPSYCHIATRIC DISORDERS	93.281	5 K02 MH074677-03		129,866
NEURAL CORRELATES OF ANXIETY IN 5-HT1AR KNOCKOUT MICE	93.281	5 K08 MH069823-04		135,599
NEUROGENESIS--ROLE IN THE MECHANISM OF ACTION OF ANTIDEPRESSANTS	93.281	5 K08 MH070954-05		74,413
NEUROIMAGING OF FATTY ACIDS IN MAJOR DEPRESSION	93.281	5 K08 MH079033-2		166,278
PREVENTION FOR SYMPTOMATIC OFFSPRING OF BIPOLAR PARENTS	93.281	5 K23 MH071530-04		248,414
PREVENTION OF DEPRESSION IN ADOLESCENTS	93.281	5 K23 MH071320-04		217
PSYCHOSIS IN SCHIZOPHRENIA: MECHANISMS OF RECOVERY	93.281	1 K23 MH077653-01A1		181,601
RESEARCH SCIENTIST DEVELOPMENT AWARD: PROMOTING COMMUNITY COLLABORATION IN HIV RESEARCH	93.281	1 K01 MH081787-01		195,446
SCHIZOPHRENIA RISK TO ONSET: NEUROBIOLOGY AND PREVENTION	93.281	5 K23 MH066279-04		159,941
STATISTICAL METHODS FOR PREDICTING SUICIDE ATTEMPTS	93.281	5 K25 MH07406802		126,889
THE CONTRIBUTION OF ADULT-BORN TO HIPPOCAMPAL STRUCTURE AND CONNECTIVITY	93.281	5 K08 MH079088-02		157,474
THE NEUROENDOCRINOLOGY OF PANIC DISORDER	93.281	5 K23 MH064142-05		73,952
VASCULAR DEPRESSION: A DISTINCT DIAGNOSTIC ENTITY	93.281	5 K23 MH07500602		627
Mental Health National Research Service Awards for Research Training				
BEHAVIORAL SCIENCES RESEARCH IN HIV INFECTION	93.282	5 T32 MH019139-19		422,967
BEHAVIORAL SCIENCES RESEARCH IN HIV INFECTION	93.282	5 T32 MH019139-18		1,577
EPIGENETIC PROFILING OF MAJOR DEPRESSION	93.282	1F30MH085471-01		26,324
MINORITY PREDOCTORAL FELLOWSHIP PROGRAM FOR EDWIN ROBERTO ORELLANA	93.282	5 F31 MH076719-03		26,630
MINORITY PREDOCTORAL RESEARCH TRAINING PROGRAM IN HOMELESS MENTAL HEALTH	93.282	1 F31 MH082621-01A1		29,284
RESEARCH TRAINING IN GERIATRIC NEUROPSYCHIATRY	93.282	5 T32 MH20004-10		59,299
RESEARCH TRAINING PROGRAM IN PSYCHIATRIC EPIDEMIOLOGY	93.282	5 T32 MH013043-37		364,335
RESEARCH TRAINING PROGRAM IN PSYCHIATRIC EPIDEMIOLOGY	93.282	2 T32 MH013043-36		-51
RESEARCH TRAINING- PSYCHOBIOLOGICAL SCIENCES	93.282	5 T32 MH018264-24		2,366
RESEARCH TRAINING: AFFECTIVE AND RELATED DISORDERS	93.282	5 T32 MH015144-31		414,446
RESEARCH TRAINING--AFFECTIVE AND RELATED DISORDERS	93.282	5 T32 MH015144-30		-1,659
SCHIZOPHRENIA RESEARCH FELLOWSHIP	93.282	5 T32 MH018870-21		303,249
SCHIZOPHRENIA RESEARCH FELLOWSHIP	93.282	5 T32 MH018870-20		3,544
Trans-NIH Research Support				
LUCIFERASE SCREEN FOR MDM2 E3 LIGASE INHIBITORS	93.310	1 R03 MH082369-01A1		-1,042
SCREEN FOR RAS-SELECTIVE LETHAL COMPOUNDS AND VDAC LIGANDS	93.310	1 R03MH084117-01		23,833
Money Follows the Person Rebalancing Demonstration				
DRUG ABUSE PREVENTION AMONG GIRLS	93.791	3 R01 DA017721-02S1 A		-
Total Direct Award Programs: National Institute on Drug Abuse				30,689,385

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National Institute of Mental Health				
Mental Health Research Grants				
MAST CELLS--FUNCTION IN THE NORMAL ADULT BRAIN	93.242	5 R01 MH54088-08	SC1	-172,436
MINORITY SUPPLEMENT	93.242	5 R01 MH059627-03	SC1	433
PROCESSING DYNAMICS OF REJECTION SENSITIVITY	93.242	5 R01 MH069703-05		114,383
Mental Health Research Career/Scientist Development Awards				
PREFRONTAL CORTICAL DOPAMINE AND COGNITION IN SCHIZOPHRENIA	93.281	5 K02 MH064178-05		-4
Mental Health National Research Service Awards for Research Training				
GENETIC ANALYSIS--PSYCHIATRIC AND OTHER COMPLEX DISEASES	93.282	5 T32 MH065213-05		823
RESEARCH TRAINING-- PSYCHOBIOLOGICAL SCIENCES	93.282	5 T32 MH018264-23		2,340
RESEARCH TRAINING--AFFECTIVE AND RELATED DISORDERS	93.282	2 T32 MH015144-27		120
SCHIZOPHRENIA RESEARCH FELLOWSHIP	93.282	5 T32 MH018870-19		31
Total Direct Award Programs: National Institute of Mental Health				-54,310
National Human Genome Research Institute				
Lifespan Respite Care Program				
3'-O-MODIFIED NUCLEOTIDE REVERSIBLE TERMINATORS FOR PYROSEQUENCING	93.072	1 R21 HG004404-01		203,425
Human Genome Research				
AN INTEGRATED FRAMEWORK OF EPIGENOMICS AND HUMAN DISEASE	93.172	5 K22 HG002915-03		199,460
AN INTEGRATED SYSTEM FOR DNA SEQUENCING BY SYNTHESIS	93.172	2 R01 HG003582-05		1,159,012
AN INTEGRATED SYSTEM FOR DNA SEQUENCING BY SYNTHESIS	93.172	5 R01 HG003582-05		-369,850
DNA SEQUENCING WITH REVERSIBLE DNTP AND CLEAVABLE FLUORESCENT DDNTP TERMINATORS	93.172	1 R01 HG004774-01		254,702
GENETICS AND STIGMA: THE ROLE OF MASS MEDIA	93.172	5 R01 HG003380-02		172,246
GENOMIC APPROACHES TO NEURONAL DIVERSITY AND PLASTICITY	93.172	5 P50 HG002806-03		381,420
GENOMIC APPROACHES TO NEURONAL DIVERSITY AND PLASTICITY	93.172	5 P50 HG002806-03	SC2	-6,503
GENOMIC APPROACHES TO NEURONAL DIVERSITY AND PLASTICITY	93.172	5 P50 HG002806-03	SC5	-7,459
GENOMIC APPROACHES TO NEURONAL DIVERSITY AND PLASTICITY	93.172	5 P50 HG002806-03	SC3	-11,954
GENOMIC APPROACHES TO NEURONAL DIVERSITY AND PLASTICITY	93.172	5 P50 HG002806-03	SUP	-61,680
GENOMIC APPROACHES TO NEURONAL DIVERSITY AND PLASTICITY	93.172	5 P50 HG002806-03	SC4	-107,119
HIGH THROUGHPUT PROFILING OF GENOMIC ETHYLATION PATTERS	93.172	1 R21 HG004552-01		199,656
INFERRING REGULATORY CIRCUITRY FROM MICROARRAY DATA	93.172	5 R01 HG003008-04		139,080
LOW-COST ACTIVE CMOS BIOCHIPS FOR WHOLE GENOME ANALYSIS	93.172	5 R21 HG003089-03		151,192
LOW-COST ACTIVE CMOS BIOCHIPS FOR WHOLE GENOME ANALYSIS	93.172	4 R33 HG003089-03		91,181

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MODULATING NUCLEOTIDE SIZE IN DNA FOR DETECTION BY NANOPORE	93.172	5 R21 HG003718-03		-23,038
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-03	COB	38,838
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-03	COD	56,696
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-03	COC	29,235
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-02	COE	12
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-03	SUP	-2,533
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-03	COE	-4,226
MOLECULAR LIBRARIES SCREENING CENTERS NETWORK CENTER AT COLUMBIA UNIVERSITY	93.172	5 U54 HG003914-03		-10,683
NUCLEIC ACID ANALYSIS USING DEOXYRIBOZYME TECHNOLOGY	93.172	5 R21 HG004060-02		19,154
THE ELSI OF GENETIC TESTING IN THE WORKPLACE	93.172	5 R03 HG003682-02		3,370
Total Direct Award Programs: National Human Genome Research Institute				2,493,634
Other NIH				
Military Medical Research and Development				
ANALYZING THE ROLE OF NFIL3 IN BASAL BREAST CANCER	12.420	W81XWH-08-1-0579		97,306
MECHANISMS OF MECHANICAL TRANSDUCTION BY CYTOSKELETONS	93.000	2 R01 EB001480-06A1		153,257
Oral Diseases and Disorders Research				
TIGHT ADHERENCE GENES OF A PERIODONTAL PATHOGEN	93.121	2R01DE014713-06A2		222,865
ENGINEERING CRANIOFACIAL OSTEOGENESIS-- MECHANICAL FORCES	93.121	7 R01 DE013964-06		-82,717
Human Genome Research				
INFERRING GENE REGULATORY CIRCUITRY FROM FUNCTIONAL GENOMICS DATA	93.172	NIH CU08-8197		137,951
Research Related to Deafness and Communication Disorders				
ANALYSIS OF MAMMALIAN ODOR RECEPTORS	93.173	5 R01 DC03159-10		290,514
Mental Health Research Grants				
THE CELLULAR CONTRIBUTION OF NEUROLIGIN 3 POST SYNAPTIC ADHESION COMPLEX AT GLUTAMATERGIC AND GABARTG	93.242	1 F30 MH083473-01		12,380
COLUMBIA CENTER FOR HOMELESSNESS PREVENTION STUDIES	93.242	5 P30 MH071430-04		914,159
COLUMBIA CENTER FOR HOMELESSNESS PREVENTION STUDIES	93.242	5 P30 MH071430-03		51,955
COLUMBIA CENTER FOR HOMELESSNESS PREVENTION STUDIES	93.242	5 P30 MH071430-04	SUP	39,793
HIV INTERVENTION SCIENCE TRAINING PROGRAM FOR MINORITY NEW INVESTIGATORS	93.242	1 R25 MH080665-01		254,384
MECHANISMS MEDIATING LONG-TERM SYNAPTIC PLAST	93.242	7 R01 MH060387-08		67,151
THE NEURAL BASES OF PLACEBO EFFECTS AND THEIR RELATION TO REGULATORY PROCESS	93.242	1 R01 MH076136-01A1		340,831
THE NEURAL BASES OF THE COGNITIVE CONTROL OF EMOTION	93.242	5 R01 MH076137-02 PR		340,785

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Drug Abuse and Addiction Research Programs				
THE NEURAL BASES OF AFFECT REGULATION IN DRUG ABUSE	93.279	5 R01 DA022541-02		370,817
Mental Health Research Career/Scientist Development Awards				
NEGATIVE SYMPTOMS OF SCHIZOPHRENIA: FROM PHENOMENOLOGY TO TARGETED TREATMENT	93.281	5 K23 MH076979-02		159,936
Mental Health National Research Service Awards for Research Training				
KIRSCHSTEIN - NRSA INDIVIDUAL FELLOWSHIP APPLICATION FOR EDWIN ROBERTO ORELLANA	93.282	5 F31 MH076719-02		131
Discovery and Applied Research for Technological Innovations to Improve Human Health				
INSERTABLE IMAGING AND EFFECTOR PLATFORM FOR SURGERY	93.286	5 R21 EB004999-03		7,708
A NON-INVASIVE SINGLE-TRIAL IN-VIVO NEUROIMAGING SYSTEM	93.286	4 R33 EB004730-04		178,217
DEVELOPMENT OF A NOVEL TMS DEVICE WITH CONTROLLABLE PULSE	93.286	1 R21 EB006855-01		193,070
DEVELOPMENT OF A NOVEL TMS DEVICE WITH CONTROLLABLE PULSE	93.286	1 R21 EB006855-01A1	BAS	10,620
DEVELOPMENT OF PET PROBES FOR QUANTIFYING CB1 RECEPTOR BINDING	93.286	5 R21 EB0041620-02		-25,197
EARLY DETECTION OF ACUTE ISCHEMIA USING MYOCARDIAL ELASTOGRAPHY	93.286	5 RO1 EB006042-02		291,816
FUNCTIONAL TISSUE ENGINEERING OF ARTICULAR CONDYLE	93.286	2 R01 *NIBIB CU5222		2,737
IMAGE GUIDED IN VIVO TOOLING PLATFOEM FOR MINIMAL ACCESS SURGERY	93.286	1 R21 EB007779-01		148,480
IMAGE GUIDED IN VIVO TOOLING PLATFORM FOR MINIMAL ACCESS SURGERY	93.286	1 R21 EB007779-01	PJ1	132,100
IMAGE GUIDED IN VIVO TOOLING PLATFORM FOR MINIMAL ACCESS SURGERY	93.286	1 R21 EB007779-01	PJ2	120,302
IMMUNE-SHIELDED, ULTRASOUND-STIMULATED CONTRAST AGENTS FOR MOLECULAR IMAGING	93.286	1 R01 EB009066-01		187,472
INTEGRATION OF METABOLOMICS IN NEUROIMAGING: SOFTWARE FOR BRAIN NMR SPECTROSCOPY	93.286	1 R03 EB008203-01		58,941
MECHANICAL TRANSDUCTION BY CYTOSKELETONS: PROTEOMIC MAP	93.286	5 R01 EB001480-05		-63,078
MECHANOBIOLOGICAL MECHANISM FOR INFLAMMATORY BONE LOSS	93.286	1 R01 EB006834-01		364,639
MODULATION OF T CELL FUNCTION BY PATTERNING OF COSTIMULATORY LIGANDS	93.286	5 R21 EB008199-02		173,767
MULTIVARIATE APPROACHES TO NEUROIMAGING ANALYSIS	93.286	5 R01 EB006240402		293,906
OPTIMIZATION OF ULTRASOUND-FACILITATED BLOOD-BRAIN BARRIER OPENING	93.286	1 R01 EB009041-01	VAU	4,382
RADIOLOGICAL RESEARCH ACCELERATOR FACILITY (RARAF)	93.286	5 P41 EB002033-13		808,735
RADIOLOGICAL RESEARCH ACCELERATOR FACILITY (RARAF)	93.286	5 P41 EB002033-12		200,779
REAL TIME MOTION CORRECTION FOR BRAIN MRI	93.286	1 R21 EB006877-01A2		49,130
REAL TIME MOTION CORRECTION FOR BRAIN MRI	93.286	1 R21 EB006877-01A2	SC1	41,737
STEM CELL BASED SOFT TISSUE RECONSTRUCTION	93.286	1 R01 EB0062621-01		556,471
STEM CELL BASED SOFT TISSUE RECONSTRUCTION	93.286	1 R01 EB0062621-01	SC1	153,500
A NOVEL SYSTEM FOR SIMULTANEOUS GENERATION AND MONITORING OF TUMOR ABLATION	93.286	1 R21 EB008521-01		203,576
Minority Health and Health Disparities Research				
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-07		218,864
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-07	CO1	100,579

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COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-07 PJ PJ2		88,143
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.307	5 P60 MD000206-07 PJ PJ1		45,398
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITIES	93.307	2 P60 MD000206-06 PRI		452,604
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITIES	93.307	2 P60 MD000206-06 C01		198,985
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITIES	93.307	2 P60 MD000206-06 PJ2		118,728
COLUMBIA CENTER FOR THE HEALTH OF URBAN MINORITIES	93.307	2 P60 MD000206-06 PJ PJ1		66,828
Trans-NIH Research Support				
EPIGENETIC MECHANISMS MEDIATING THE INHERITANCE OF REPRODUCTIVE BEHAVIOR	93.310	1 DP2 OD001674-01		407,077
GENETIC VARIATION AND REGULATORY NETWORKS: MECHANISMS AND COMPLEXITY	93.310	1 DP2 OD002414-01		389,989
NIH PIONEER'S AWARD	93.310	1 DP1 OD003635-01		970,948
Nursing Research				
ADAPTING CHAMP+ FOR SOUTH AFRICA: SUPPORTING HIV-INFECTED YOUTH AND FAMILIES	93.361	1 R21 NR010474-01		97,473
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES	93.375	3 P60 MD000206-07S1		31,375
COLUMBIA CENTER FOR HEALTH OF URBAN MINORITIES (CHUM)	93.375	3P60MD000206-06S1		14,324
National Center for Research Resources				
DIFFERENCE GEL ELECTROPHORESIS SYSTEM FOR PROTEOMICS	93.389	1 S10 RR024728-01A1		111,275
A CHEMICAL GENETICS APPROACH TO IMPROVED IMP EXPRESSIONS IN E COLI	93.390	5 R21 GM075933-02 PR		15,282
NIH DIRECTOR'S PIONEER AWARD	93.390	5 DP1 OD000114-04		834,835
Cancer Biology Research				
THE ROLE OF CBL IN ABL SIGNALING AND LEUKEMIA	93.396	5 R21 CA112944-02		9,904
MECHANISMS AND REGULATION OF POST-TRANSLATIONAL MODIFICATIONS OF ID PROTEINS	93.396	1 R01 CA127643-01A1		359,092
REGULATION OF IMMUNE PRIVILEGE IN METASTATIC SQUAMOUS CELL CARCINOMA	93.396	1 R21 CA131897-01A1		179,791
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-03		88,468
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.396	5 U 54CA126613-03 COA		73,285
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54CA126513-03 PJ1		241,135
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-03 PJ PJ2		189,621
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-03 PJ4		92,494
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-02 PJ1		65,684
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-02 COA		40,828
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-02 PJ4		11,631
THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-02 PJ2		-7,648

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THE ROLE OF STROMA IN DIGESTIVE CANCER	93.396	5 U54 CA126513-02		-14,280
Cancer Centers Support Grants				
HE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.397	3 U54 CA126513-02S1 S1		23,541
THE ROLE OF INFLAMMATION AND STROMA IN DIGESTIVE CANCER	93.397	3 U54 CA126513-03S1 S1		47,294
Cancer Research Manpower				
RISK FACTORS FOR SITE-SPECIFIC METASTASIS IN ESOPHAGEAL CANCER	93.398	1 K07 CA132892-01A1		107,867
THE ROLE OF ANGIOPOIETINS IN WILMS TUMOR	93.398	5 K08 CA107077-03		155,943
UTRASONIC TISSUE-TYPING-GUIDED PROSTATE BRACHYTHERAPY	93.398	5 K01 CA114313-02		115,987
ANIMAL OXIMETRY	93.826	5 R01 EB001900-03 PR		82,159
MRI-COMPATIBLE DIFFUSE OPTICAL TOMOGRAPHY SYSTEM FOR SMALL ANIMAL OXIMETRY	93.826	5 R01 EB001900-03 A1		15,735
Cardiovascular Diseases Research				
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MO	93.837	1 P01 HL088117-01A1 SC5		71,216
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	1 P01 HL088117-01A1 SC3		290,486
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	1 P01 HL088117-01A1 SC2		132,282
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	1 P01 HL088117-01A1		226,533
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	1 P01 HL088117-01A1 SC4		107,700
DEPRESSION, BIOBEHAVIORAL MECHANISMS, & CHD/MORTALITY OUTCOMES	93.837	1 P01 HL088117-01A1		379,680
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-07 COA		507,464
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-07		393,281
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-07 P31		299,661
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-07 COA		245,715
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-08		102,168
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-08 CO COB		58,739
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	5 P01 HL067849-08 CO COA		38,683
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH	93.837	2 P01 HL067849-06A1 COB		-11,693
MOLECULAR BASIS OF SUDDEN CARDIAC DEATH (*SUBPROJECT*)	93.837	5 P01 HL067849-08		98,151
CONTROLLED GENE DELIVERY FOR IN VIVO VASCULARIZATION OF AN ENGINEERED CARDIAC PAT	93.837	1 R21 HL088913-01A1		168,142
MICROFLUIDIC BLOOD PURIFICATION	93.837	1 R21 HL088162-01A1		187,002
Lung Diseases Research				
PULMONARY VASCULAR CHANGES IN EARLY CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)	93.838	1 R01 HL093081-01		119,791
Arthritis, Musculoskeletal and Skin Diseases Research				
CHONDROCYTE MECHANOTRANSDUCTION USING MICROFLUIDICS	93.846	1 R01 AR052871-01A1		439,256

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

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MICRO-MECHANICAL MODELING OF TRABECULAR BONE	93.846	5 R01 AR051376-02		414,168
Diabetes, Digestive, and Kidney Diseases Extramural Research				
EFFECTS OF MATERNAL INSULIN RESISTANCE ON HYPOTHALAMIC FEEDING	93.847	1 F31 DK079372-01A1		-2,120
EFFECTS OF MATERNAL INSULIN RESISTANCE ON HYPOTHALAMIC FEEDING CIRCUIT IN PROGENY	93.847	5 F31 DK079372-02		39,416
MOLECULAR REGULATION OF ADRENAL CORTEX HOMEOSTASIS AND REMODELING	93.847	1 R01 DK081515-01A1		17,360
NEW APPROACHES TO EVALUATION AND TREATMENT OF ACROMEGALY	93.847	5 K24 DK073040-03		127,514
TOLL-LIKE RECEPTOR SIGNALING IN HEPATIC FIBROGENESIS	93.848	1 R01 DK076920-01A2		232,519
GENETIC CONTROL OF URETER AND KIDNEY DEVELOPMENT	93.849	1 R01 DK082715-01		93,778
OPTIMIZATION OF ULTRASOUND-FACILITATED BLOOD-BRAIN BARRIER OPENING	93.849	1 R01 EB009041-01		152,393
Extramural Research Programs in the Neurosciences and Neurological Disorders				
A CLINICAL TRIAL OF UNRUPTURED BRAIN AVMS	93.853	5 U01 NS051483-04		391,606
A CLINICAL TRIAL OF UNRUPTURED BRAIN AVMS	93.853	5 U01 NS051483-02		170,789
A CLINICAL TRIAL OF UNRUPTURED BRAIN AVMS	93.853	1 U01 NS051483-01A1		-10,286
ACTIVITY DEPENDANT SYNAPTIC GROWTH AND RETROGRADE BONE MORPHOGENETIC PROTEINS (BMP) SIGNALING	93.853	5 F31 NS055505-03		33,579
ACTIVITY DEPENDANT SYNAPTIC GROWTH AND RETROGRADE BONE MORPHOGENETIC PROTEINS (BMP) SIGNALING	93.853	5 F31 NS055505-02		10,765
THE ROLE OF SORTILIN IN ALZHEIMER'S DISEASE	93.853	5 F31 NS051957-03		19,574
THE ROLE OF SORTILIN IN ALZHEIMER'S DISEASE	93.853	5 F31 NS051957-03		17,123
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION - STAT	93.853	5 U01 NS039143-07		2,480,773
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION - STAT	93.853	5 U01 NS039143-07	S1	24,060
WARFARIN VS ASPIRIN IN REDUCED EJECTION FRACTION-STAT	93.853	2 U01 NS039143-06		32,743
ENVIRONMENTAL EPIDEMIOLOGY OF ESSENTIAL TREMOR	93.853	5 R01 NS39422-07		413,127
MICRORNAS AND THEIR TARGETS ARE NOVEL REGULATORS OF NMJ MORPHOLOGY IN DROSOPHILA	93.853	1 F30 NS061401-01		40,519
MICRORNAS AND THEIR TARGETS ARE NOVEL REGULATORS OF NMJ MORPHOLOGY IN DROSOPHILA	93.853	5 F30 NS061401-02		3,671
MOLECULAR ENGINEERING APPROACH TO STUDY LONG TERM SYNAPTIC PLASTICITY	93.853	1 R01 NS060762-01		849,996
STRUCTURAL AND FUNCTIONAL STUDIES OF INVERTEBRATED CLASSICAL CADHERINS	93.853	1 F30 NS061400-01A1		42,116
Allergy, Immunology and Transplantation Research				
CBL MEDIATED UBIQUITINATION IN AUTOIMMUNITY	93.855	5 R01 AI062931-02		485,470
MODELING OF S. AUREUS TRANSMISSION IN NORTHERN MANHATTAN	93.855	1 R01 AI077690-01A1		234,283
PHARMACOLOGIC APPROACHES TO COMBATING RESISTANCE TO ANTIMALARIAL COMBINATIONS	93.855	1 R01 AI079709-01		351,456
REGULATORY MODULES IN NORMAL AND TRANSFORMED B-CELLS	93.855	5 R01 AI066116-03		460,987
REGULATORY MODULES IN NORMAL AND TRANSFORMED B-CELLS	93.855	5 R01 AI066116-02	SC2	87,499

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Biomedical Research and Research Training				
SIGNALING SPECIFICITY IN DROSOPHILA SERPENTINE RECEPTORS	93.859	2 R01 GM057043-10A1		100,103
ASSEMBLY OF POLYCYSTIN COMPLEXES	93.859	1 R01 GM085234-01A1		89,460
COMPUTATIONAL ANNOTATION OF ORPHAN METABOLIC ACTIVITES	93.859	1 R01 GM079759-01A2		387,389
DEFINING A NOVEL TRIGGER FOR APOPTOSIS	93.859	1 R01 GM085081-01		381,189
EPIGENETIC REGULATION BY PWWP DOMAIN PROTEINS	93.859	1 R01 GM085145-01		233,265
STRUCTURAL BIOLOGY OF PRE-RNA 3'-END PROCESSING	93.859	1 R01 GM077175-01A2		296,487
THE CHEMISTRY AND BIOLOGY OF RESVERATROL-BASED OLIGOMERS	93.859	1 R01 GM084994-01A1		168,448
Aging Research				
DECISION-MAKING OVER THE LIFESPAN: HOW MEMORY AFFECTS PREFERENCES	93.866	1 R01 AG027934-01A2		406,916
International Research and Research Training				
THE MODULATION OF PCNA UBIQUITINATION BY P21 AND ITS SIGNIFICANCE FOR DNA REPAIR	93.989	1 R03 TW007440-01A1		33,359
Total Direct Award Programs:				26,672,297
Other NIH				

Pass-through Awards

National Institute on Aging

Allergy, Immunology and Transplantation Research

ADVANCED NEUROMODULATION SYSTEMS	93.855	UWASH 390738	1 R01 AI067653-01A2	44,549
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Aging Research				
MOUNT SINAI SCHOOL OF MEDICINE	93.866	MSSM CU51810205	5 R01 AG015922-10	238,248
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.866	SRFMH 903-1592E	5 R01 AG021488-05	8,602
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.866	SRFMH CU08-7756	2 R01 AG016381-06A2	58,576
REGENTS OF THE UNIVERSITY OF MINNESOTA	93.866	Q6576145101	1R01-AG02639-01A2	2,763
SLOAN-KETTERING INSTITUTE	93.866	SKI CU08-7681	1 R21 AG028811-01A1	64,495
THE MAYO CLINIC -- JACKSONVILLE	93.866	MAOJF P01AG17216	5 P01 AG017216-08	206,188
THE MAYO CLINIC -- JACKSONVILLE	93.866	MAOJF P01AG17216	5 P01 AG017216-08	127,398
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	UCSD ADNI-02401	UCSD ADNI-02401	57,468
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	UCSDCU08-3926	5 U01 AG10483	49,588
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.866	UCSF 4972SC	1 R01 AG027986-02	8,706
UNIVERSITY OF ILLINOIS AT CHICAGO	93.866	UILCHI CU08-9499	1U01AG031294-01	124,610
UNIVERSITY OF NORTH TEXAS HSC AT FORT WORTH	93.866	UTEHOUS CU5230201	1 P01 AG027956-01A1	288,990
UNIVERSITY OF WASHINGTON	93.866	UWASH 119577	5 U01 AG016976-10	26,277
UNIVERSITY OF WASHINGTON	93.866	UWASH 119577	5 U01 AG16976-09	-295
UNIVERSITY OF WISCONSIN	93.866	UWIS 835F654	5 P01 AG020166-06	29,423
YALE UNIVERSITY	93.866	YU NO. A06505	1 P01 AG028054-01	126,133

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Total Pass-through Programs: National Institute on Aging				1,461,719
Nat. Inst. of Allergy & Infectious Disease				
CLINICAL - SOCIAL & SCIENTIFIC SYSTEMS, INCORPORATED	93.000	CSCLSC CU80206103	5 U01 AI068632-03	39,042
PPP DEVELOPMENT LIMITED PARTNERSHIP	93.000	PPD P0117474	HHSN2660050022C	116,068
SANARIA INC	93.000	SANINC CU52287501	1 R34 AI06931-01A1	82,465
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.000	UCSF ITN10196-00SC	NIAID N01-A1-15416	787
UNIVERSITY OF WISCONSIN	93.000	*UWIS CU52271001 URE	1NIAID	483,946
UNIVERSITY OF WISCONSIN	93.000	UWIS CU52271001	1NIAID	737,578
Mental Health Research Grants				
SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.242	SSS CU08-4468	1 U01 AI068632-01	87,110
Trans-NIH Research Support				
UNIVERSITY OF FLORIDA	93.310	UFLRDA CU52249401	R01 AI074068	17,311
CLINICAL - DUKE CLINICAL RESEARCH INSTITUTE	93.846	CDUKE CU801259-X2	1 N01 AR-2-2265	25,257
Allergy, Immunology and Transplantation Research				
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.855	DVAMC CU00-0110	1U01 AI068641-01	389,344
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.855	DVAMC CU00-0782	5 U01 AI068641-02	38,673
DUKE UNIVERSITY	93.855	DUKEU 303-1038	5 U19 AI067854-03	0
FAMILY HEALTH INTERNATIONAL	93.855	FHI 0080-0025	U01 AI068619	58,110
FAMILY HEALTH INTERNATIONAL	93.855	FHI 860	5 U01 AI46749-08	84,774
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000654466	5 U01 AI068614-03	19,573
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	*FHCRC CU802074 SUP	5 U01 AI068614-02	-2
GEORGE WASHINGTON UNIVERSITY	93.855	GWU 07-M31	U01 AI69503-02	214,970
GEORGE WASHINGTON UNIVERSITY	93.855	GWU 08-M11	U01 AI69503-03	39,554
JOHNS HOPKINS UNIVERSITY	93.855	JH CU08-9804	1 R34 AI074928-01	22,919
MAGEE-WOMENS RESEARCH INSTITUTE	93.855	MWRI 26-3301-4271	5 U01 AI068633-03	156,657
MEDICAL COLLEGE OF GEORGIA	93.855	MWRI 26-3301-4286	5 U01 AI068633-03	68,755
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	93.855	3 U01 AI069470-02S3 HFC	FHCRC PO#0000640499	270,418
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	93.855	3 U01 AI069470-02S3 HPT	FHCRC PO#0000640499	364,582
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	93.855	5 U01 AI069470-02 IMP	FHCRC PO#0000640499	188,573
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.855	SHRI 3385-01	5 U54 AI05715805	342,063
NORTH SHORE UNIVERSITY HOSPITAL	93.855	AUTOIMMUNITY CENTERS	7 U19 AI056362	32,109

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SOUTHWEST FOUNDATION FOR BIOMEDICAL RESEARCH	93.855	SWFBR 08-1112.008	5 R01 AI048071-08	48,403
SOUTHWEST FOUNDATION FOR BIOMEDICAL RESEARCH	93.855	SWFBR-09-1112.008	5 R01 AI48071-09	5,536
SOUTHWEST FOUNDATION FOR BIOMEDICAL RESEARCH	93.855	SWFBR CU52297401	5 R01 AI048071-07	-845
THE UNIVERSITY OF ARIZONA	93.855	UA Y503198	R01 AI079030	76,465
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.855	UAB CU08-7385	HHSN266200400036C	531,474
UNIVERSITY OF BERNE	93.855	UNVBRN CU00-0085	1 U01 AI0699-24-02	33,525
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.855	UCSF 3855SC	5 U01 AI052748-06	28,268
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.855	UCSF 3855SC	4 U01 AI052748-07	26,037
UNIVERSITY OF KWAZULU-NATAL	93.855	UKZN CU-08-9057	5 U01 AI069426	16,767
UNIVERSITY OF KWAZULU-NATAL	93.855	UKZN CU08-4879	5 U01 AI069469-02	76,497
UNIVERSITY OF KWAZULU-NATAL	93.855	UKZN CU08-4879	5 U01 AI069469-03	53,448
UNIVERSITY OF PENNSYLVANIA	93.855	UPENN 5550995	5-U01-AI063589-05	106,840
UNIVERSITY OF PENNSYLVANIA	93.855	UPENN CU801771-01	NIH	54,837
UNIVERSITY OF PENNSYLVANIA	93.855	UPENN CU801771-03	5-U01-AI063589-04	-18,749
WILDLIFE TRUST	93.855	WILDLIFE CU09-0740	1 R01 AI079231-01	128,923
Microbiology and Infectious Diseases Research				
AMERICAN ACADEMY OF PEDIATRICS	93.856	PACTG.25.00091.01	U01 AI41089	12,854
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.856	SHRI 2179-05	2 U54 AI057158-05	488,955
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.856	SHRI 2167-05	2 U54 AI057158-04	266,645
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.856	SHRI 2176-05	5 U54 AI057158-05	73,005
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.856	SHRI 2191-05	5 U54 AI057158-05	180,360
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.856	SHRI 2171-05	5 U54 AI158057-05	20,884
SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.856	SSS CPR2.22.07	5 U01 AI46362-05	3,693
UNIVERSITY OF CALIFORNIA, LOS ANGELES	93.856	UCLA PO 0000106757	5 R01 AI054928-02	3,726
YALE UNIVERSITY	93.856	YU CU51147110	5 R01 AI41608-10	-1,360
Total Pass-through Programs: Nat. Inst. of Allergy & Infectious Disease				6,096,824
Nat. Inst. of Arthritis & Muscul. & Skin Disease				
Arthritis, Musculoskeletal and Skin Diseases Research				
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.846	BWH CU08-8034	1 P50 MH082679-02	29,124
CHILDREN'S HOSPITAL MEDICAL CENTER, OHIO	93.846	CHMC #103858	1 U01 AR0555054-01	7,106
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.846	NSLIJHS CU08-0107	7 R01 AR049938-06	48,572
UNIVERSITY OF PENNSYLVANIA	93.846	UPENN #545295	1 R01 AR053156-01	112,393
UNIVERSITY OF TEXAS	93.846	UTEXAS CU515228	5 N01-AR-0-2249	11,732
Total Pass-through Programs: Nat. Inst. of Arthritis & Muscul. & Skin Disease				208,927
National Cancer Institute				

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
BIOFORTIS INC	93.000	BIOFOR CU52251201	1 R41 CA105217-01A1	-8
MEDICAL UNIVERSITY OF OHIO	93.000	MCO N 2006-24	1 NCI HHSN26120043300011	67,495
SLOAN-KETTERING INSTITUTE	93.000	SKI CU08-5121	5 P50 CA92629-07	41,546
UNIVERSITY OF TEXAS M.D. ANDERSON	93.000	UTMDA 18645/98025671	N01 CN035159-05	102,477
UNIVERSITY OF TEXAS M.D. ANDERSON	93.000	UTMDA04-2-02-01	1N01 CN035159	4,548
Cancer Cause and Prevention Research				
AMERICAN COLLEGE OF RADIOLOGY	93.393	ACR #4239	CA80098	9,976
AMERICAN COLLEGE OF RADIOLOGY	93.393	ACR #4239	CA80098	117,924
BOOZ ALLEN HAMILTON INCORPORATED	93.393	BAHI 94144NB23 SC2	GS-35F-0306J	713
BOOZ ALLEN HAMILTON INCORPORATED	93.393	BAHI 94144NB23	GS-35F-0306J	74,353
BOOZ ALLEN HAMILTON INCORPORATED	93.393	BAHI 94144NB23 SC1	GS-35F-0306J	22,486
BOOZ ALLEN HAMILTON INCORPORATED	93.393	BAHI 94144NBS23 SC3	GS-35F-0306J	2,663
CHILDRENS HOSPITAL & RESEARCH CENTER AT OAKLAND	93.393	CHRCO 12.8256.A-01	7 R01 CA109584-05	173,428
ITT RESEARCH INSTITUTE	93.393	ITTRI CU52193501	1 N01 CN43303	245
NATIONAL CHILDHOOD CANCER FOUNDATION	93.393	NCCF 17814	2 U10 CA098543-06	6,997
NATIONAL CHILDHOOD CANCER FOUNDATION	93.393	NCCF 18140	2 U10 CA098543-06	6,300
POYLTECHNIC INSTITUTE OF NEW YORK	93.393	MSSM 0255-1051-4609 SC1	5 R01 CA109753-03	104,910
POYLTECHNIC INSTITUTE OF NEW YORK	93.393	MSSM 0255-1051-4609	5 R01 CA109753-02	35,233
POYLTECHNIC INSTITUTE OF NEW YORK	93.393	MSSM 0255-1051-4609	5 R01 CA109753-03	3,722
POYLTECHNIC INSTITUTE OF NEW YORK	93.393	MSSM 0255-1051-4609	5 R01 CA109753-03	37,376
QUEENSLAND INSTITUTE OF MEDICAL RESEARCH	93.393	QIMR CU51759203	5 R01 CA100352-03	30,117
SLOAN-KETTERING INSTITUTE	93.393	SKI CU08-0191	5 U01 CA115953-03	4,653
UNIVERSITY OF CHICAGO	93.393	UCHICA 35704	7 R01 CA107431-03	1,190,750
UNIVERSITY OF CHICAGO	93.393	UCHICA 35704 S2	7 R01 CA107431-03	198,199
UNIVERSITY OF CHICAGO	93.393	UCHICA 35704	1 R01 CA107431-01	-552,657
UNIVERSITY OF CHICAGO	93.393	UCHICA 37137	7 R01 CA102484-04	80,171
Cancer Detection and Diagnosis Research				
BOOZ ALLEN HAMILTON INCORPORATED	93.394	BAHI 81700CBS10 SC1 SC1	1 R01 NCI	-11,127
Cancer Treatment Research				
DANA FARBER CANCER INSTITUTE	93.395	DFCI CU084779	P01 CA092625-07	394,302
DANA FARBER CANCER INSTITUTE	93.395	DFCI CU51555807	5 P01 CA092625-067	-4,302
DANA FARBER CANCER INSTITUTE	93.395	DCFI CUS52262901	2 P01 CA068481-11A1	30,877
GEORGETOWN UNIVERSITY	93.395	GU 4400-208-CU	1 R01 CA124924-01	87,919
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 98543-1070	U10 CA98543-02	44,125
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 16968	U10 CA98543-05	-5

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NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 17778	2 U10 CA098543-06	8,319
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 17969	CA097452-07	25,070
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 97452-1030		5,175
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 16817		71
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 17544	2 U10 CA098543-06	12,675
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 1728	2 U10 CA098543-06	13,994
NATIONAL CHILDHOOD CANCER FOUNDATION	93.395	NCCF 97452-1008	U10 CA97452-04	10,918
NEW YORK STATE HEALTH RESEARCH INC. ROSWELL PARK DIV.	93.395	SHRIRP CU51873204	5 R01 CA106815-04	98,989
SLOAN-KETTERING INSTITUTE	93.395	SKI CU08-7668	2 P01CA 047179-17	179,665
SLOAN-KETTERING INSTITUTE	93.395	SKI CU08-7668	P01 CA047179	48,414
UNIVERSITY OF MASSACHUSETTS	93.395	UMASS CU08-0474	5 R01 CA107295-03	40,622
UNIVERSITY OF TEXAS	93.395	UTEXAS CU80152002	N01-CN-035159	73,858
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.395	CUMC CU07-1689	5 R21 CA126060-02	18,289
Cancer Biology Research				
CASE WESTERN RESERVE UNIVERSITY	93.396	CWRU RES503641	R01-CA131341-01A1	57,572
COLD SPRING HARBOR LABORATORY	93.396	CSHL CU52293101	2 P01 CA013106-36	96,983
SLOAN-KETTERING INSTITUTE	93.396	MSKCC CU-08-8689	1 R01 CA124380-01A1	82,868
Cancer Research Manpower				
CLINICAL - UNIVERSITY OF MICHIGAN	93.398	CMICH CU80045401	NCI SWOG9921	115,747
Cancer Control				
BOSTON UNIVERSITY	93.399	BU CU5220802	5 U54 CA104677	39,200
FOX CHASE CANCER CENTER	93.399	FCCC 15032-01	5 R01 CA127488-02	59,421
NATIONAL CHILDHOOD CANCER FOUNDATION	93.399	NCCF 13557	5 U10 CA095861-07	25,639
UNIVERSITY OF CALIFORNIA, IRVINE	93.399	UCI 2009-2096	7 U10 CA037429-24	5,746
UNIVERSITY OF MICHIGAN	93.399	UMICHG CU08-9855	7 U10 CA037429-24	27,895
UNIVERSITY OF TEXAS	93.399	UTEXAS CU51923501A1	1 P01 CA108964-01A1	-5
UNIVERSITY OF TEXAS	93.399	UTEXAS CU08-7355	5 P01 CA108964-04	63,031
UNIVERSITY OF TEXAS	93.399	UTEXAS CU08-7300	5 P01 CA108964-04	10,941
WASHINGTON UNIVERSITY, ST. LOUIS	93.399	WU-08-80 PO NO.2905	5 U54 CA119342-03	23,701
Aging Research				
UNIVERSITY OF WASHINGTON	93.866	UWS X281816	5 RO1 AG029624-02	10,594
Total Pass-through Programs: National Cancer Institute				3,460,798

Nat. Inst. of Dental & Craniofacial Rsch.

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Oral Diseases and Disorders Research				
BOSTON UNIVERSITY	93.121	BU CU52266301	1 U54 DE14264-06	5,411
CLINICAL - UNIVERSITY OF MINNESOTA	93.121	CUMINN B6166124504	5 U01 DE14338-04	19,659
CLINICAL - UNIVERSITY OF MINNESOTA	93.121	CUMINN B6166124504	5 U01 DE14338-05	-336
CLINICAL - UNIVERSITY OF MINNESOTA	93.121	CUMINN B616612504	5 U01 DE0144338	105,614
Research Related to Deafness and Communication Disorders				
EMORY UNIVERSITY	93.173	EMORYU 5-41105-G1	1 R21 DC008353-01A1	63,125
Total Pass-through Programs: Nat. Inst. of Dental & Craniofacial Rsch.				193,473
Nat. Inst. of Environmental Health Sciences				
Environmental Health				
HENRY FORD HEALTH SYSTEM	93.113	HFHS CU08-7296	3 R01 ES11126-06A2	210,969
WEST HARLEM ENVIRONMENTAL ACTION, INCORPORATED	93.114	WHEA CU51742202	5 R25 ES12090-02	3,252
Total Pass-through Programs: Nat. Inst. of Environmental Health Sciences				214,221
National Eye Institute				
Vision Research				
CLINICAL - UNIVERSITY TEXAS AT HOUSTON HSC	93.867	*CUTEX CU80069209 CAP	5 U01 EY01247-09	5,700
CLINICAL - UNIVERSITY TEXAS AT HOUSTON HSC	93.867	CUTEX CU80069209	5 U01 EY01247-09	8,800
CLINICAL - UNIVERSITY TEXAS AT HOUSTON HSC	93.867	CUTEX 00004359	5 U10 EY012471-10	4,442
EMMES CORPORATION	93.867	EMMES CU08-7911 SC1	HHS-N-260-2007-00001 C	339
EMMES CORPORATION	93.867	EMMES CU08-7911	HHS-N-260-2007-00001 C	17
MEDICAL COLLEGE OF WISCONSIN	93.867	MCW CU52131303	5 R01 EY015526-01A2	83,791
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.867	SRFMH 903-1585A	5 R01 EY014697-05	90,722
THE SALK INSTITUTE FOR BIOLOGICAL STUDIES	93.867	SALK PO #611377	1 R01 EY018003	175,452
UNIVERSITY OF IOWA	93.867	UIO CU52207902	1R24 EY017404-02	226,000
UNIVERSITY OF IOWA	93.867	UIO CU52145802	5 R24 EY017404-02	60,638
UNIVERSITY OF IOWA	93.867	UIO CU08-8815	5 R24 EY017404-03	301,406
Total Pass-through Programs: National Eye Institute				957,307
Nat. Inst. of General Medical Sciences				
Nursing Research				
DREXEL UNIVERSITY	93.361	DREXEL 232358	5 P01 GM056550-13	127,122

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DREXEL UNIVERSITY	93.361	DREXEL CU51174212	5 P01 GM056550-12	-311
Biomedical Research and Research Training				
CALIFORNIA INSTITUTE OF TECHNOLOGY	93.859	CALTECH CU522631	1 R01 GM079771-01	21,908
LOS ALAMOS NATIONAL LABORATORY	93.859	LANL 57886-001-07	1 R21 GM0802016-01	127,477
MOUNT SINAI SCHOOL OF MEDICINE	93.859	MSSM #0254-7752-4609	5 P50 GM071558-02	27,155
NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	93.859	5 R01 GM062867-08		503,945
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889 SC6	5 U54 GM075026-04	153,642
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889 SC4	5 U54 GM075026-04	148,087
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889 SC5	5 U54 GM075026-04	144,000
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889 SC1	5 U54 GM075026-04	143,827
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889 SC2	5 U54 GM075026-04	104,988
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08-4889	5 U54 GM075026-04	54,000
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU08--4889	5 U54 GM075026-04	53,999
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	*NYSBC CU52221003 SC2	5 U54 GM075026-03	11,138
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	*NYSBC CU52221003 SC1	5 U54 GM075026-03	6,315
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	NYSBC CU52221002	5 U54 GM075026-02	-1
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	*NYSBC CU52221003 SC4	5 U54 GM075026-03	-931
NEW YORK STRUCTURAL BIOLOGY CENTER	93.859	*NYSBC CU52221003 SC3	5 U54 GM075026-03	-2,019
ROCKEFELLER UNIVERSITY	93.859	RFU CU52049302	5 P01 GM073047-02	-2,959
ROCKEFELLER UNIVERSITY	93.859	RFU CU08-4909	5 P01 GM073047-03	-41,627
ROCKEFELLER UNIVERSITY	93.859	RFU CU08-4909	5 P01 GM073047-04	87,255
ROCKEFELLER UNIVERSITY	93.859	RFU CU08-4909	5 P01 GM073047-05	33,349
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC5	5 R01 NIGMS	-1,004
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC3	U54--G M 074958	1,795,175
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC7	U54--G M 074958	322,096
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC2	U54--G M 074958	270,000
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC1	U54--G M 074958	160,000
RUTGERS UNIVERSITY	93.859	RUTGER 3497 SC5	U54--G M 074958	45,592
RUTGERS UNIVERSITY	93.859	RUTGER 3497	U54--G M 074958	29,985
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC4	U54--G M 074958	25,001
RUTGERS UNIVERSITY	93.859	RUTGER CU08-4890	U 54 GM074958-05	6,074
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC8	5 R01 NIGMS	4,524
RUTGERS UNIVERSITY	93.859	*RUTGER CU52070602 SC4	5 R01 NIGMS	-233
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC4	5 R01 NIGMS	-355
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC7	5 R01 NIGMS	-5,143
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC6	U54--G M 074958	197,714
RUTGERS UNIVERSITY	93.859	RUTGER 2236 SC3	5 R01 NIGMS	7,093
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.859	UNC-CH 5-50082	5 R37 GM047845-17	107,946
UNIVERSITY OF UTAH	93.859	UUTAH WEISS 10000825	1 R01GM083925-01A01	111,458

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

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
YALE UNIVERSITY	93.859	YU #Y-05-00-07	5R01 GM026338-28	5,167
Total Pass-through Programs: Nat. Inst. of General Medical Sciences				4,781,449
Nat. Inst. of Child Health & Human Dvlpt.				
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM CU52163702	NICHD/HHSN27500503411C	30,723
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM HHSN27520050341	NICHD-2004-07	212,866
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.864	SRFMH CU08-7402	5 R21 HD056017-02	58,072
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.864	RFCUNY 41597-00-02 A	08RH0054846A	72,376
UNIVERSITY OF CALIFORNIA, BERKELEY	93.864	UCB CU52209201	1 R01 HD050470-01	12,619
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.864	USCF CU52303801	U54-HD055764	2,049
Child Health and Human Development Extramural Research				
BOSTON UNIVERSITY	93.865	BU PO#MC-515929-BAJ	5 R01 HD39611-07A1	18,535
Childrens Hospital Los Angeles	93.865	CHLA 000222		56,050
DARTMOUTH COLLEGE	93.865	DARTC 5-30365.570	5 R01HD45653-03	-129
JOHNS HOPKINS UNIVERSITY	93.865	JH 2000364537		120,219
KENNEDY KRIEGER INSTITUTE	93.865	KKINS CU52220003	5 P01 HD035897-21	89,963
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.865	SRFMH CU52277701	5 P01 HD035897-21	21,325
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.865	RFMH 903-14281/MPPS6	5 R37 HD032774-11	44,918
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.865	SRFMH CU51896802	5 R01 HD046786-02	38,623
PRINCETON UNIVERSITY	93.865	PU 00001273	2 R01 HD036916	152,048
RESEARCH TRIANGLE INSTITUTE	93.865	RTI 9-312-0210070		7,110
TULANE UNIVERSITY	93.865	TUL-HSC-123-08/09	U01HD052104	8,821
TULANE UNIVERSITY	93.865	TULANE CU08-4476	5 U01 HD052104-03	-1,554
TULANE UNIVERSITY	93.865	TUL-HSC-120-08/09	5 U01 HD052104-04	25,304
TULANE UNIVERSITY	93.865	TUL-HSC-123-08/09	5 U01 HD052104-04	12,600
UNIVERSITY OF ALABAMA AT BIRMINGHAM	93.865	UAB 065	5 U01 HD040533-08	18,059
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.865	UCSF #4632SC	R25 HD045810	5,408
UNIVERSITY OF MICHIGAN	93.865	UMICHG CU52250002	HD050531	-926
UNIVERSITY OF NATAL	93.865	NATAL CU51745501	5 R01 HD043554-01R1	60,177
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.865	UNC-CH 5-50819	1R03HD049409-01A2	12,653
WESTAT	93.865	WESTAT CU08-7567	N01-DK-8-001	169,039
WESTAT	93.865	WESTAT CU50792016	N01-HD-3-3345	186,251
Total Pass-through Programs: Nat. Inst. of Child Health & Human Dvlpt.				1,433,199

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National Heart, Lung, & Blood Institute				
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-2511-4609	1 N01 HC25197	556,180
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-2511-4609- ADM	1 N01 HC25197	134,729
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM 0258-2511-4609- TRA	1 N01 HC25197	51,971
MOUNT SINAI SCHOOL OF MEDICINE	93.000	MSSM CU80107202	1 N01 HC25197	0
NEW ENGLAND RESEARCH INSTITUTES	93.000	*NERI CU801863-03 ISV	U01 HL68270	7,970
NEW ENGLAND RESEARCH INSTITUTES	93.000	*NERI CU801863-03 SII	U01 HL68270	11,250
NEW ENGLAND RESEARCH INSTITUTES	93.000	*NERI CU801863-03 SVR	U01 HL68270	57,714
NEW ENGLAND RESEARCH INSTITUTES	93.000	NERI CUCU80189502	5 U01 HL68270-02	204,710
NEW ENGLAND RESEARCH INSTITUTES	93.000	NERI CU801863-03	U01 HL68270	5,941
RESEARCH FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK	93.000	WUBGSM CU51700105	5 N01-HC-95178	134,978
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.000	UCSD PO10231784-001	5 N01-HR-36157	49,528
Oral Diseases and Disorders Research				
CLINICAL - UNIVERSITY OF MINNESOTA	93.121	CUMINN B6166124504	1 N01 HC25197	805
UMDNJ ROBERT WOOD JOHNSON MEDICAL SCHOOL	93.287	RWJMS CU802086	1 R01 HL083056-01A2	168,773
Cardiovascular Diseases Research				
	93.837	WASHU WU-08-124	5 P50 HL077113-04	34,924
CLINICAL - DUKE CLINICAL RESEARCH INSTITUTE	93.837	CDUKE	NHLBI 1U01 HL69015-01	1,527
CLINICAL - UNIVERSITY OF ROCHESTER	93.837	PO#413066-002-G	5U01HL065691-05	-5,956
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.837	UPITT CU52022304	2 P50 HL074732-04	-1,254
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.837	UPITT CU08-4903	5P50HL074732-05	35,589
MOUNT SINAI SCHOOL OF MEDICINE	93.837	MSSM 0255-3101-4609	7 U01 HL088942-03	51,744
NATIONAL HEART, LUNG, & BLOOD INST	93.837	HL54591-11A1 PJ3		67,675
NATIONAL HEART, LUNG, & BLOOD INST	93.837	HL54591-11A1 COB		36,511
NEW ENGLAND MEDICAL CENTER HOSPITAL	93.837	NEMCH CU51602803	5 R01 HL069003-03	-3
NEW ENGLAND RESEARCH INSTITUTES	93.837	NERI CU51870304	5 U01 HL68270-04	-11,720
NEW YORK UNIVERSITY MEDICAL CENTER	93.837	NYUMC 08-1000	7R01HL078566-05	78,385
NEW YORK UNIVERSITY MEDICAL CENTER	93.837	NYUMC SPA #07-0929	1 R01 HL092439-01	38,376
ROCKEFELLER UNIVERSITY	93.837	5 P01 HL054591-12 COB		207,223
ROCKEFELLER UNIVERSITY	93.837	HL54591-12 PJ4		6,206
ROCKEFELLER UNIVERSITY	93.837	HL54591-12 PJ2		-57,078
ROCKEFELLER UNIVERSITY	93.837	HL54591-12 PJ3		-137,801
TUFTS UNIVERSITY SCHOOL OF MEDICINE	93.837	TUSM PVGI.1(VEGF-2)-	5 P01 HL66957-05	1,819
UNIVERSITY OF CALIFORNIA, IRVINE	93.837	UCI CU52207801	1 R01 HL078681	34,162

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UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.837	UCSD 10253578-001	5 R01 HL064382-07	78,332
UNIVERSITY OF MIAMI	93.837	UMIAMI 66017R	5 R01 HL072705-06	-74,811
UNIVERSITY OF MIAMI	93.837	UMIAMI CU52133603	5 R01 HL53392-12	6,135
UNIVERSITY OF MIAMI	93.837	UMIAMI CU52133603	5 R01 HL53392-12	5,225
UNIVERSITY OF MIAMI	93.837	UMIAMI M137470	5 R01 HL053392-13	1,347
UNIVERSITY OF ROCHESTER	93.837	ROCHSTR 414137-G	1R01 HL088367-01A1	100,350
VANDERBILT UNIVERSITY	93.837	VANDER CU07-1687	2 R01 HL068880-06	46,850
WASHINGTON UNIVERSITY, ST. LOUIS	93.837	WASHU WU-06-52	5 R01 HL73645-04	234,440
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.837	CUMC CU52202301	1 R01 HL0885592-01A1	38,861
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.837	CUMC CU52259202	5 R01 HL082098-03	89,542
Lung Diseases Research				
NATIONAL JEWISH HEALTH	93.838	NJMRCCS CU08-7792	1 U01 HL089897-01	202,894
ROCKEFELLER UNIVERSITY	93.838	*RFU CU50983908 PJ2	5 P01 HL54591-08	24,710
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN 548849	5 R01 HL087115-02	48,503
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN 548849	1 R01 HL0871150-A1	-743
UNIVERSITY OF PENNSYLVANIA	93.838	UPENN CU52266101	1 R01 HL-081619-01A2	66,224
WASHINGTON UNIVERSITY, ST. LOUIS	93.838	WU-05-65	5 R01 HL76488-03	76,384
Blood Diseases and Resources Research				
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	93.839	UMDNJ FOCUS-01X4	1 R01 HL0739580-01A1	52,120
Total Pass-through Programs: National Heart, Lung, & Blood Institute				2,761,241
Nat. Inst. of Neurological Disorder & Stroke				
HARVARD MEDICAL SCHOOL	93.000	HMS CU52296801	1NINDS	28,067
NORTHERN ILLINOIS UNIVERSITY	93.000	NIU CU52307201	2 R37NS031146-15A1	62,750
WESTAT	93.000	WESTAT CU801870-02	NINDS	-71,389
WESTAT	93.000	WESTAT #8079-S15-01	HHSN265200423611C	-14,831
Human Genome Research				
UNIVERSITY OF ROCHESTER	93.172	ROCHSTR PO 412649-G	5 R01 HG02449-03	-20,247
Extramural Research Programs in the Neurosciences and Neurological Disorders				
AMERICAN HEART ASSOCIATION	93.853	JH 8412-77648-9	5 R01 NS049465-02	33,714
BETH ISRAEL DEACONESS MEDICAL CENTER	93.853	BIDMC CU8012560103	5 R01 NS039466-03	59,652
CLINICAL - MASSACHUSETTS GENERAL HOSPITAL	93.853	CMASG 208255-01	UNS049640-04S1	4,008
CLINICAL - UNIVERSITY OF ROCHESTER	93.853	PO#414257-G	5U01 NS050095-04	362

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CLINICAL - UNIVERSITY OF WASHINGTON	93.853	CUWASH WU-06-166-05	5 U01 NS42167-05	12,821
MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES	93.853	NYPH CU08-8065	5 U10 NS059062-02	51,224
MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES	93.853	NYPH CU08-8065	U10NS059062-01	23,950
MONTEFIORE MEDICAL CENTER	93.853	MMC CU08-4400	2 R01 NS043209-06	170,539
MONTEFIORE MEDICAL CENTER	93.853	MMC CU08-4400	5 R01 NS043209-17	9,353
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.853	SRFMH1005613/1/24118	5 R01 NS22061-22	19,693
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.853	RFCUNY 41589-00-02 B	1 R01 NS054864-01A	14,337
UNIVERSITY OF CALIFORNIA, LOS ANGELES	93.853	UCLA #1580 GFJ638-04	P50 NS044378	5,684
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.853	UCSF 4799SC		94,562
UNIVERSITY OF IOWA	93.853	UIO 4000505964	5 R01 NS40068-04	14,307
UNIVERSITY OF IOWA	93.853	UIO PO#1000544352	5 P01 NS050210-03	284,937
UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION	93.853	UKRF 4-68214-05-059	5 R01 NS045087-02	-1,207
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	93.853	UMDNJ-99-705	3 R01 NS038384-05S1	5,000
UNIVERSITY OF MIAMI	93.853	UMIAM 66442A	2 R37 NS029993-16	913,543
UNIVERSITY OF MIAMI	93.853	UMIAM 66442A	2 R37 NS029993-17	313,470
UNIVERSITY OF MIAMI	93.853	UMIAM CU52295901	5 R01 NS0299993-15	-12,789
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.853	CUNCCH CU80216601	5 U01 NS042167	67,991
UNIVERSITY OF PITTSBURGH	93.853	UPITT 112008-3	1 R01NS050256-01A2	151,006
UNIVERSITY OF ROCHESTER	93.853	ROCHSTR PO#413754-G	5 R01 NS045686-04	318
UNIVERSITY OF ROCHESTER	93.853	ROCHSTR PO413409-G	5 R01 NS37167-08	108
UNIVERSITY OF SOUTH FLORIDA	93.853	UFLRDA UF07058		641
UNIVERSITY OF TEXAS HEALTH SCIENCE CNTR AT SAN ANTONIO	93.853	UTHSCSA-SPS3-X4	2U01NS038529-04A1	1,216
UNIVERSITY OF WISCONSIN	93.853	UWIS J1949464		118,075
UNIVERSITY OF WISCONSIN	93.853	UWIS J1949464	5 P01 NS42803-05	-8,271
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.853	CUMC 09081041	1 R01 NS062055-01A1	25,496
Aging Research				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT 5710002149 SC1 SC1	5 P01 NS0559223-03	192,753
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT 5710002149	5 P01 NS0559223-03	186,426
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	*MIT CU52204102 SC1		79,274
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	*MIT CU52204102 SC2		47,940
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	93.866	MIT CU52204102		29,728
Total Pass-through Programs: Nat. Inst. of Neurological Disorder & Stroke				2,894,211
Fogarty International Center				
International Research and Research Training				
UNIVERSITY OF CHICAGO	93.989	UCHICA CU52190203	5 R01 D43 TW06221	62,446
Total Pass-through Programs: Fogarty International Center				62,446

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Nat. Center for Research Resources				
National Center for Research Resources				
ENERGETIQ TECHNOLOGY INC	93.389	ENERTECH CU5229480	1R44023753-01	194,345
Total Pass-through Programs: Nat. Center for Research Resources				194,345
Nat. Inst. on Deafness & Other Communication Disorders				
Research Related to Deafness and Communication Disorders				
FRED HUTCHINSON CANCER RESEARCH CENTER	93.173	FHCRC 650337	5 R01 DC004209-10	187,153
FRED HUTCHINSON CANCER RESEARCH CENTER	93.173	FHCRC 632826	5 R01 DC04209-07	—
ROCKEFELLER UNIVERSITY	93.173	RFU CU02767901	5 R01 DC006291-04	-2
Total Pass-through Programs: Nat. Inst. on Deafness & Other Communication Disorders				187,151
Nat. Inst. of Diabetes & Digestive & Kidney Diseases				
ALBERT EINSTEIN COLLEGE OF MEDICINE	93.000	AEOM 9-526-2915	HHSN268200617190C	148,377
BENAROYA RESEARCH INSTITUTE	93.000	BENRI AAAB010103	5 U01 DK062418-06	9,115
BENAROYA RESEARCH INSTITUTE	93.000	BENRI AAAB010101X2	5 U01 DK062418-04	1,906
CHILDREN'S HOSPITAL MEDICAL CENTER, OHIO	93.000	CHMCO 101650	U01DK070219	131,583
CHILDREN'S HOSPITAL MEDICAL CENTER, OHIO	93.000	CHMCO 101650	U01 DK070219	64,170
CHILDREN'S HOSPITAL OF PITTSBURGH	93.000	CHPITT CU52120604	5 U01 DK072146-04	12,844
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.000	UTSWMC CU8017100104	5 U01 DK058369-09	31
Diabetes, Digestive, and Kidney Diseases Extramural Research				
	93.847	VANDER VUMC34069-R	U01 DK072473	24,041
GEORGE WASHINGTON UNIVERSITY	93.847	GWU T2K050605-D22-04	5 U01 DK061230-07	803,527
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 23438-8-CCLS2048	5 U01 DK061230-08	161,180
GEORGE WASHINGTON UNIVERSITY	93.847	GWU T2K050605-D22-03	5 U01 DK061230-05	32,176
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 06-M33	5 U01 DK061055-06	649,195
GEORGE WASHINGTON UNIVERSITY	93.847	GWU 06-M33	5 U01 DK061055-06	32,891
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.847	SLRHC CU08-4422	5 P30 DK26687-29	666
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.847	SLRHC CU51473709	5 P30 DK26687-27	601
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.847	SLRHC CU08-4422	5 P30 DK26687-28	126,038
UNIVERSITY OF CINCINNATI, COLLEGE OF MEDICINE	93.847	UCINCM CU52145603	5 R01 DK067555-03	43,597
UNIVERSITY OF SOUTH FLORIDA	93.847	USF 6119-1094-00-X-W NUT	5 U01 DK063790-06	11,812
UNIVERSITY OF SOUTH FLORIDA	93.847	USF 6119-1094-00-X-W	5 U01 DK063790-06	35,908

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CLINICAL - JOHNS HOPKINS UNIVERSITY	93.848	CJHPKN 8505-07638-03	5 U01 DK067767-03	-375
CLINICAL - JOHNS HOPKINS UNIVERSITY	93.848	CJHPKN PO#2000010317	5 U01 DK067767-05	-529
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.848	RFMH CU08-7508	1 R21 DK074503-01A1	6,180
NEW YORK UNIVERSITY	93.848	NYU CU51969202	5 R01 DK069373-03	50,211
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.848	SLRHC CU08-4600	5P30DK26687-28	125,320
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.848	SLRCH CU08-4600	P30 DK26687-29	3,105
ST. LUKE'S-ROOSEVELT HOSPITAL CENTER	93.848	SLRHC CU52300301	5 P02 DK26687-27	-817
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.848	UTSWMC 80121301X1	5 R01 DK58369-05	18,800
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.848	UTSWMC CU80171001-0	5 U01 DK058369-07	12,724
CROPSOLUTION	93.849	CROPSOLCU02772901	2 R44 DK068962-02A1	34,159
MOUNT SINAI SCHOOL OF MEDICINE	93.849	MSSM 0254-6000-4609	5 P01 DK056492-10	140,860
MOUNT SINAI SCHOOL OF MEDICINE	93.849	MSSM CU51932104	5 P01 DK056492-09	45,204
MOUNT SINAI SCHOOL OF MEDICINE	93.849	MSSM 0254-6000-4609	5 P01 DK056492-10	82,187
MOUNT SINAI SCHOOL OF MEDICINE	93.849	MSSM CU51948604	5 P01 DK056492-08	-3,303
UNIVERSITY OF FLORIDA	93.849	UFLRDA UF00031-10	5 R01 DK049108	227,436
Child Health and Human Development Extramural Research				
GEORGE WASHINGTON UNIVERSITY	93.865	CHPITT 70011-046016		351,537
GEORGE WASHINGTON UNIVERSITY	93.865	CHPITT 70011-046016-	5 R01 HD42444-08	11,776
Total Pass-through Programs: Nat. Inst. of Diabetes & Digestive & Kidney Diseases				3,394,133
Nat. Inst. of Nursing Research				
Civil Rights and Privacy Rule Compliance Activities				
INFOSCITEX CORPORATION	93.001	INFOSCITE 1287-S1	1R41NR010753-01	54,051
Nursing Research				
UNIVERSITY OF COLORADO	93.361	UCOL CU08-7709	5 R01 NR010492-02	9,854
Total Pass-through Programs: Nat. Inst. of Nursing Research				63,905
National Library of Medicine				
Medical Library Assistance				
SYRACUSE UNIVERSITY	93.879	SYRACUS 17111-01247	5 G08 LM008983	57,221
UNIVERSITY OF CHICAGO	93.879	UCHICA CU08-7807	7 R01 LM008799-03	200,442
Total Pass-through Programs: National Library of Medicine				257,663

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Nat. Inst. on Alcohol Abuse & Alcoholism				
Alcohol Research Programs				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.273	SRFMH 1003770/23537	2 R01 AA013654-03	-7,958
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.273	SRFMH CU08-9827	7 R01 AA014341-05	23,233
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.273	SRFMH 903-1707A	1 R21 AA018075-01	10,465
OREGON HEALTH SCIENCES UNIVERSITY	93.273	GBNEU0169BJ	5 U01 AA013641-08	62,581
UNIVERSITY OF WISCONSIN	93.273	UWIS #K069452	5 R01 AA013848-03	9,997
Alcohol Research Center Grants				
YALE UNIVERSITY	93.891	A07216 M07A00249	5 P50 AA12870-08	172,973
YALE UNIVERSITY	93.891	A06795 M-08-154	5 P50 AA12870-07	-37,481
Total Pass-through Programs: Nat. Inst. on Alcohol Abuse & Alcoholism				233,810
National Institute on Drug Abuse				
RESEARCH TRIANGLE INSTITUTE	93.000	RTI 1-312-0211758	NIDG R01DA025198	20,096
ST. LUKE'S-ROOSEVELT INSTITUTE FOR HEALTH SCIENCES	93.000	SLRIHS CU52215503	5 R01 DA17618-03	40,121
ST. LUKE'S-ROOSEVELT INSTITUTE FOR HEALTH SCIENCES	93.000	SLRIHS CU52215502	5 R01 DA17618-02	—
THE CENTER FOR SOCIAL INNOVATION	93.000	CFSI CU09-1854	HHSN271200800027C	8,263
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.000	UOFNC CU52201002	5 N01 MH90001	418,545
Mental Health Research Grants				
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.242	BWH CU07-1567	1 R01 MH074679-01A2	124,863
EMORY UNIVERSITY	93.242	EMORYU 5-41370-G1	5 P50 MH077928-02	146,026
EMORY UNIVERSITY	93.242	EMORYU 5-41370-G1	1 P50 MH077928-01A1	11,411
KAISER FOUNDATION RESEARCH INSTITUTE	93.242	KFDNI 115-9360-Y1-Y2	1 R01 MH069819	102,851
MEDICAL UNIVERSITY OF SOUTH CAROLINA	93.242	MUSC CU07-1662	R01 MH069887	73,382
MEDICAL UNIVERSITY OF SOUTH CAROLINA	93.242	SRFMH CU07-1657	1 R01 MH069887	40,832
MOUNT SINAI SCHOOL OF MEDICINE	93.242	MSSM 0255-7432-4609	5 R01 MH059312-03	80,131
MOUNT SINAI SCHOOL OF MEDICINE	93.242	MSSM 0255-9481-4609	5 R01 MH066105-05	22,209
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-0100	1 R34 MH082654-01	25,632
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-9846	5R34MH082654	20,457
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-9228	5 R01 MH082736	105,490
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH CU07-2028	7 R01 MH074118-03	70,386
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1005167/4/2394	5 R01 MH069915-04	33,182

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NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-9632	5 P20 MH078178-03	15,685
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1004504/1/2376	5 P50 MH066171-04	-8,719
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	RFMH 1006449/24356	5 P50 MH66171-04	46,942
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-8173	2 P30 MH043520-20	151,036
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-8300	2 P30 MH043520-20	122,037
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-8115	2 P30 MH043520-20	83,817
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-8119	2 P30 MH043520-20	65,613
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318U	5 P30 MH043520-21	63,186
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1318U	5 P30 MH043520-21	53,540
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-8121	2 P30 MH043520-20	34,436
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU07-1868	5 R01 MH072833-03	-5,651
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1546C	5 R01 MH60387-06A2	15,892
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1003925/1/2357	5 RO1 MH069133-02	51,747
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU52135703	5 P50 MH066171-03	29,676
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1698A	1 R01 MH082052-01A1	28,407
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU09-0946	5 R01 MH079078-01A2	15,152
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-8953	5 R34 MH074774-03	6,286
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH CU08-7820	5 R01 MH071456-02/03	4,398
NEW YORK UNIVERSITY	93.242	NYU 07-0925		44,828
RESEARCH FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK	93.242	SUNYRF 44042	2 R01 MH064824-08	196,367
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.242	UCSF CU07-1900	5 R01 MH072802	15,335
UNIVERSITY OF MICHIGAN	93.242	UMICHG 3000971404	5 R01 MH075023-03	19,576
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.242	UOGNV CU52112802	5 R01 MH074027	-12,493
UNIVERSITY OF PENNSYLVANIA	93.242	UPENN 5-47107-D	1 R01 MH06068-01A1	21,449
UNIVERSITY OF PITTSBURGH MEDICAL COLLEGE	93.242	UPMC #108419-2	5 R01 MH059395-08	15,333
UNIVERSITY OF SOUTHERN CALIFORNIA	93.242	USC H3667	5 R01 MH067949-04	-55
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.242	UTSWMC GMO-600607	7 R01 MH68853-04	61,631
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.242	UTSWM CU51410706	5 N01 MH90003-03	204,853
Drug Abuse and Addiction Research Programs				
GLORNEY-RAISBECK FELLOWSHIP/THE NY ACADEMY OF MEDICINE	93.279	GRNYAM CU52220403	5 R01 DA018061	101,236
NEW YORK ACADEMY OF MEDICINE	93.279	NYAMED CU08-7922	1 R01 DA022123-01A1	6,849
NEW YORK ACADEMY OF MEDICINE	93.279	NYAMED CU08-7924	1 R01 DA022144-01A2	37,661
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH CU07-1685	2 U10 DA013035-06	122,565
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 24389	3 U10 DA013035-07S1	64,477
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH CU07-1686	2 U10 DA013035-06	82,948
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH CU52248501	1 R01 DA020855-01	61,837
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	1006609-1-24393	5 R01 DA023733-02	63,526
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	RFMH 1004389/2/23738	5 R01 DA017820-04	58,406
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH 1006601-2-2439	1 R01 DA020656-01A1	213,700

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NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	RFMH#903-1431L	5 P50 DA009236-15	17,458
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH CU09-1603	1 R01 DA024029-01A1	48,932
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.279	SRFMH-07-1820	1 R01 DA021319-01A1	77,643
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.279	UCSF 2362SC	5 P01 DA010154	188,628
UNIVERSITY OF MICHIGAN	93.279	UMICHG F004906	5 R01 DA13683-03	93,723
UNIVERSITY OF MICHIGAN	93.279	*UMICHG 3000577170	DA021416-01	110,173
UNIVERSITY OF MICHIGAN	93.279	UMICHG 3000577170	DA021416-01	-21,666
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.279	CUMC CU09-0509	5 P01 DA012408-11	33,590
Mental Health Research Career/Scientist Development Awards				
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	93.281	RFCUNY 41630-00-03A	K23 MH075006-03	57,485
Arthritis, Musculoskeletal and Skin Diseases Research				
UNIVERSITY OF MISSOURI-COLUMBIA	93.846	UMISS NO. C0008347-	1 R21 AR053530-01	-93
Total Pass-through Programs: National Institute on Drug Abuse				4,103,259
National Institute of Mental Health				
AMERICAN INSTITUTES FOR RESEARCH	93.000	AIR SC-03-02054-008	NIMH 280-2003-00042	-3
Mental Health Research Grants				
MOUNT SINAI SCHOOL OF MEDICINE	93.242	MSSM CU51959502	5 R34 MH072382-02	-2
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1561D	5 R01 MH056123-10	3,668
UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.242	UCSD CU08-4471	5 R01 MH067902-03	22,963
Total Pass-through Programs: National Institute of Mental Health				26,626
National Human Genome Research Institute				
Human Genome Research				
HOSPITAL FOR SICK CHILDREN	93.172	HSC 3210515046	1 R03HG004314-01	9,392
Total Pass-through Programs: National Human Genome Research Institute				9,392
Other NIH				
CIE - CAMBRIDGE RESEARCH & INSTRUMENTATION, INC	93.000	CRI-INC CU09-2075	1R43EB008627-01	7,099
CLAROS DIAGNOSTICS	93.000	CLAROS CU08-8782	1 U54EB007949-01	24,540
FOUNDATION FOR THE NATIONAL INSTITUTES OF HEALTH	93.000	FNIH #042209	NIH	4,658

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INDIANA UNIVERSITY	93.000	INDU CU08-4492	1 U01 AI069911-03	76,827
INDIANA UNIVERSITY	93.000	INDU CU52257202	U01 AI069911-02	6,249
NEW YORK BLOOD CENTER	93.000	NYBC CU52186403	NIH	93,613
UNIVERSITY OF CALIFORNIA, LOS ANGELES	93.000	UCLA 200SGV810 `	HHSN278200441003C	17,160
Health Disparities in Minority Health				
UNIVERSITY OF SOUTH DAKOTA SCHOOL OF MEDICINE	93.100	SDHRF-2007-03		-13,171
UNIVERSITY OF SOUTH DAKOTA SCHOOL OF MEDICINE	93.100	SDHRF-2007-03	P20 MD0011631-04	73,651
Oral Diseases and Disorders Research				
LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT UCLA MED CTR	93.121	LABIOMED PO 00001245	5 R01 DE017088-02	1,905
UNIVERSITY OF FLORIDA	93.121	UF-08027	R21 DE018118	135,683
UNIVERSITY OF FLORIDA	93.121	UFLRDA #08046	R21 DE18006-01A2	47,673
AIDS Education and Training Centers				
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.145	USCF 5134SC	UA2HA07855	15,000
Human Genome Research				
MICROCHIP BIOTECHNOLOGIES INCORPORATED	93.172	MBI TT-31386	1 R01 HG003583-01	-1,480
Research Related to Deafness and Communication Disorders				
YALE UNIVERSITY	93.173	YU A06679	7 R01 DC0006291-05	-2,796
Research and Training in Complementary and Alternative Medicine				
	93.213	CMCC #10802-03/04	1 R21 AT004059-01A1	32,024
Mental Health Research Grants				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1003593/2/2323	5 R01 MH56390-08	-34,009
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 1004341/6/2372	5 R01 MH060884-06	8,455
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1647	5 R01 MH073080-03	47,135
NORTHSHORE UNIVERSITY HEALTHSYSTEM RESEARCH INSTITUTE	93.242	NSUHSRI EH07-046-S2	1 U01MH079469-01A1	86,044
UNIVERSITY OF MICHIGAN	93.242	UMICHG F015885	5 R24 MH075999-02	124,167
Drug Abuse and Addiction Research Programs				
	93.279	PH C020782		123,316
Research Foundation for Mental Hygiene, Inc	93.279	RFMH 903-1545F		280,530

Discovery and Applied Research for Technological Innovations to Improve Human Health

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TUFTS UNIVERSITY SCHOOL OF MEDICINE	93.286	TUSM CU08-0194	5P41EB002520-40	314,350
Cancer Cause and Prevention Research				
	93.393	ORRI CU5190180-03	5 R01 CA107442	2,911
SAIC-FREDERICK, INC.	93.395	SAICFI 28XS194		1,340,284
UNIVERSITY OF MICHIGAN	93.395	UMICHG F020081	U10CA32102-29	41,463
UNIVERSITY OF MICHIGAN	93.395	UMICHG F017580	U10 CA32102-28	-8,140
ALBERT EINSTEIN COLLEGE OF MEDICINE	93.471	AECM 9-526-5312	1 R24 DK071030-01	-3
Cardiovascular Diseases Research				
EMORY UNIVERSITY	93.837	EMORYU CU08-8210	4 R21 HL089164-02	97,849
MASSACHUSETTS GENERAL HOSPITAL	93.837	MGH 212606	R01HL076398-04	601
NEW YORK UNIVERSITY MEDICAL CENTER	93.837	NYUMC SPA04-0607	5 R01 HL079953-04	35,798
WASHINGTON UNIVERSITY, ST. LOUIS	93.837	WU-09-194	5 P50 HL077113-05	49,859
Lung Diseases Research				
NEW YORK UNIVERSITY MEDICAL CENTER	93.838	NYUMC 08-0274	1 R01 HL089493-01A1	9,443
Blood Diseases and Resources Research				
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	93.839	STCRH CU80177804	5 U01 HL078787-04	59,709
ST. JUDE CHILDREN'S RESEARCH HOSPITAL	93.839	SJCRH PO 7173324-03	5U01HL078787-02	25,723
Arthritis, Musculoskeletal and Skin Diseases Research				
MCGILL UNIVERSITY	93.846	MCGILL 211480		24,157
MCGILL UNIVERSITY	93.846	MCGILL CU52250102	5 R01 AR053287-02	-203
UNIVERSITY OF PENNSYLVANIA	93.846	UPENN 549028	1 R01 AR055647	104,876
Diabetes, Digestive, and Kidney Diseases Extramural Research				
ALBERT EINSTEIN COLLEGE OF MEDICINE	93.847	AECM 9-526-5312	5 R24 DK071030-03	104,823
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.847	UTSWMC-GMO-700731	5 R24 DK071030-02	105,469
VANDERBILT UNIVERSITY	93.847	VUMC 35150	UO1 DK074273	64,586
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.847	SUBAWARD NO 1	5 R01 DK065515-03	24,885

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NEW YORK UNIVERSITY MEDICAL CENTER	93.849	NYUMC SPA-02-0347	5 R01 DK063183-04	-9,355
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.849	CUMC CU52146903	5 R01 DK045218-14	20,001
Extramural Research Programs in the Neurosciences and Neurological Disorders				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.853	SRFMH CU09-1121	P01 NS048447	156,174
Allergy, Immunology and Transplantation Research				
NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES	93.855	5 U01 AI069470-02	FHCRC PO#0000640499	919,005
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.855	SHRI 3279-01		184,428
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.855	NSLIJHS 08-B-102 PJ2	U19 AI056362	195,009
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.855	NSLIJHS 08-B-102	U19 AI056362	141,203
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.855	NSLIJHS 08-B-102 PJ3	U19 AI056362	117,413
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.855	NSLIJHS 08-B-102 PJ4	U19 AI056362	90,492
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.855	NSLIJHS 08-B-102 PJ1	U19 AI056362	62,951
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.855	NSLIJHS 08-B-102 CRB	U19 AI056362	52,271
Microbiology and Infectious Diseases Research				
FAMILY HEALTH INTERNATIONAL	93.856	FHI 659-2	5 U01 AI46749-05	62,278
FAMILY HEALTH INTERNATIONAL	93.856	FHI 659-2	5 U01 AI46749-05	29,344
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.856	SHRI 2880-03	2 U54 AI05715804	199,233
TEXAS A&M UNIVERSITY	93.856	TAMU CU52294601	1 P01 AI60342-01	310,636
Biomedical Research and Research Training				
SCRIPPS RESEARCH INSTITUTE	93.859	SCRIPPS CU08-9480	1 R01 GM085659-01	79,362
UNIVERSITY OF ILLINOIS AT CHICAGO	93.859	UILCHI 2008-00992-01	1 R01GM081030-01A1	28,297
Aging Research				
UNIVERSITY OF MICHIGAN	93.866	3000818901	1 R01 AG029550-02	7,851
UNIVERSITY OF PENNSYLVANIA	93.866	UPENN 540698	5R01AG015116-10	28,912
WASHINGTON UNIVERSITY, ST. LOUIS	93.866	WASHU WU-09-159	1 U01 AG032438-01	1,603
Total Pass-through Programs: Other NIH				6,229,821
Total: National Institute of Health				356,092,298
Grand Total: Department of Health & Human Services				371,921,590

National Science Foundation
Direct Awards

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
National Science Foundation				
INTERGOVERNMENTAL PERSONAL ACT AWARD	47.000	OCE-08-13823		124,040
SGER--17 ALPHA ESTRADIOL-- A NOVEL ENDOGENIOUS MITOGENAND ANTI-DEPRESSANT IN THE BRAIN	47.000	NSF CU52291001		92,649
CT-T: ENABLING COLLABORATIVE SELF-HEALING SOFTWARE SYSTEMS	47.040	CNS-06-27473	001	111,523
CT-T: ENABLING COLLABORATIVE SELF-HEALING SOFTWARE SYSTEMS	47.040	CNS-06-27473		47,406
CT-T: ENABLING COLLABORATIVE SELF-HEALING SOFTWARE SYSTEMS	47.040	CNS-06-27473	002	7,971
NETS-NOSS: FUNNELING IMPULSES IN SENSOR NETWORKS	47.040	CNS-04-35168		-361
Engineering Grants				
3D LASER FORMING OF DOUBLY CURVED SHAPES: PROCESS AND PREDICTION AND SYNTHESIS	47.041	DMI-03-55432		32,239
A MINIATURE IMPLANTABLE DEVICE FOR CONTINUOUS GLUCOSE MONITORING	47.041	ECS-07-02101		12,123
AND APPLICATIONS	47.041	ECCS-07-47787		56,702
BRIGE: ONLINE MEASUREMENT OF SUBMICRON AEROSOL COMPOSITION USING AC-CIMS	47.041	EEC-0823847		18,195
CAREER: GEOSYNTHETIC-REINFORCED SOIL STRUCTURES SUBJECT TO STRONG EARTHQUAKE LOADING	47.041	CMS-00-92739		-11,679
CAREER: ADVANCED DEVICES AND TESTING USING ORGANIC FIELD EFFECT TRANSISTORS	47.041	ECCS-06-44656		169,179
CAREER: ADVANCED DEVICES AND TESTING USING ORGANIC FIELD EFFECT TRANSISTORS	47.041	ECCS-06-44656 SPL	SPL	4,953
CAREER: DESIGN AND ANALYSIS OF DIFFERENTIATED SERVICES	47.041	CMMI-0447652		55,342
CAREER: EFFICIENT MONTE CARLO METHODS IN ENGINEERING AND SCIENCE	47.041	CMMI-0846816		51,404
CAREER: ELECTRONIC AND MECHANICAL PROPERTIES OF SINGLE METAL-MOLECULE-METAL JUNCTIONS	47.041	CHE-07-44185		118,004
CAREER: MOLECULAR MECHANISMS AND METABOLIC MODELING OF N2O AND NO EMISSION FLUXES FROM BIOLOGICAL NITROGEN REMOVAL	47.041	CBET-0846650		1,150
CAREER: MULTIREOLUTION FOUNDATIONS FOR PHYSICS-BASED COMPUTER ANIMATION AND INTERACTIVE ENGINEERING	47.041	CCF-06-43268	REU	12,234
CAREER: MULTIREOLUTION FOUNDATIONS FOR PHYSICS-BASED COMPUTER ANIMATION AND INTERACTIVE ENGINEERING DESIGN	47.041	CCF-06-43268		106,046
CAREER: NONLINEAR AND NONCLASSICAL OPTICS IN ULTRAHIGH-Q/V MESOSCOPIC CAVITIES: SCIENCE, EDUCATION	47.041	ECCS-07-47787	PAR	13,116
CAREER: THE SCIENCE UNDERPINNING MECHANICAL SELF-ASSEMBLY	47.041	CMMI-06-43726		116,075
CAREER: ULTRASOUND-INDUCED DRUG DELIVERY THROUGH THE BLOOD-BRAIN BARRIER	47.041	CBET-06-44713		82,800
CHO CELL LINES AND VECTORS FOR RAPID DEVELOPMENT OF HIGH LEVEL RECOMBINANT PROTEIN PRODUCTION	47.041	CBET-07-35385		10,389
COLLAB. RESEARCH: ARCHITECTURE & IMPLEMENTATION OF INTELLIGENT TRANSCIEVERS FOR ULTRA-WIDEBAND COMMUNICATIONS	47.041	ECS-04-24312		-2,244
COLLABORATIVE RESEARCH: AIR FLOW MECHANISMS DURING INSITU AIR SPARGING OPERATION	47.041	CMS-04-09521		4,797
COLLABORATIVE RESEARCH: JOINT UFL/CU I/UCR CENTER FOR PARTICULATE AND SURFACTANT SYSTEMS	47.041	IIP-0749461		93,677
COLLABORATIVE RESEARCH: UNDERSTANDING UV PROTECTIVE MECHANISMS USING HYBRID NANOARCHITECTURES	47.041	CBET-07-55946		4,938
COLUMBIA ENGINEERING SCHOOL RET (CESRET)	47.041	EEC-06-01984	A	66,590
COLUMBIA ENGINEERING SCHOOL RET (CESRET)	47.041	EEC-06-01984	PR	57,890
EFFECTS OF HETEROGENEITY, ANISOTROPY AND LENGTH SCALE EFFECTS IN MICROSCALE DEFORMATION PROCESSES	47.041	DMI-05-00239		-5
ENHANCED RAMAN PHENOMENA IN PHOTONIC CRYSTAL NANOSTRUCTURES SCIENCE AND APPLICATIONS	47.041	ECS-06-22069		54,926
EXPERIMENTAL CHARACTERIZATION OF GOLD SINGLE CRYSTALS AND BICRYSTALS AT THE NANOSCALE WITH EMPHASIS	47.041	DMR-07-06058		99,318
FORMATION OF MULTISCAPE BIOPOLYMER PARTICLE STRUCTURES FOR NOVEL BIOSORBENT DESIGN	47.041	CBET-07-56220		32,139

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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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
GOALI: MULTISCALE MODELING OF THE SYNTHESIS OF QUANTUM DOTS AND THEIR ARRAYS	47.041	CBET-07-32615		58,530
INDUSTRY/UNIVERSITY COOPERATIVE RESEARCH CENTER FOR ADVANCEDSTUDIES IN NOVEL SURFACTANTS	47.041	EEC-03-28614		-31,730
INTERCULTURAL KNOWLEDGE SYSTEM DYNAMICS IN COMPLEX SERVICES OUTSOURCING	47.041	SES-07-29253		205,356
KNOWLEDGE, ATTITUDES AND BEHAVIORAL INTENTIONS OF ESSENTIAL PERSONNEL WITH RESPECT TO AVIAN INFLUENZA & SARS	47.041	NSF 0653493		53,763
LASER PEEN BENDING: SIMULTANEOUS SHAPING AND PROPERTY ENHANCEMENT	47.041	DMI-06-20741		142,798
MODELING THE STRUCTURE AND PROPERTIES OF PBI BASED HYDROGEN PUMP MEMBRANES	47.041	CBET-07-32615	SUP	793
MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVES SUBSTRATES	47.041	ECCS-0707748	SC1	75,191
MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVES SUBTRATES	47.041	ECCS-0707748	SC2	39,060
MOLECULAR ELECTRONICS DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVE SUBSTRATES	47.041	ECCS-0707748	SC3	40,913
MULTI-TERABIT TRANSPARENT PHOTONIC NETWORKS THROUGH INTEGRATED SILICON PHOTONICS	47.041	ECCS-07-25707	WON	56,601
MULTI-TERABIT TRANSPARENT PHOTONIC NETWORKS THROUGH INTEGRATED SILICON PHOTONICS	47.041	ECCS-07-25707	BER	6,798
NANOPOROUS METALS INCORPORATED INTO MEMS AND NEMS DEVICES FOR ENHANCED FUNCTIONALITY	47.041	CMMI-08-26093		172,751
NIRT: BIOMOLECULAR-SCALE NANOFABRICATION FOR INVESTIGATION OF SIGNALING, MOTILITY, AND MOTOR PROTEIN COMPLEXES	47.041	EF-05-07086	PR	177,044
NIRT: BIOMOLECULAR-SCALE NANOFABRICATION FOR INVESTIGATION OF SIGNALING, MOTILITY, AND MOTOR PROTEIN COMPLEXES	47.041	EF-05-07086	WND	105,221
NIRT: BIOMOLECULAR-SCALE NANOFABRICATION FOR INVESTIGATION OF SIGNALING, MOTILITY, AND MOTOR PROTEIN COMPLEXES	47.041	EF-05-07086	HNT	8,891
NIRT: BIOMOLECULAR-SCALE NANOFABRICATION FOR INVESTIGATION OF SIGNALING, MOTILITY, AND MOTOR PROTEIN COMPLEXES	47.041	EF-05-07086	STZ	-31,888
NIRT: BIOMOMOLECULAR-SCALE NANOFABRICATION FOR INVESTIGATION OF SIGNALING, MOTILITY, AND MOTOR PROTEIN COMPLEXES	47.041	EF-05-07086	VLL	26,583
NIRT: MOLECULAR ELECTRONIC DEVICES WITH CARBON-BASED ELECTRODES ON ACTIVE SUBSTRATES	47.041	ECCS-07-07748		354,490
NONLINEAR PHOTONIC CRYSTALS WAVELENGTH CONVERSION STRUCTURES FABRICATION, OPTICAL MEASUREMENT & NUM. SIMULATION	47.041	ECS-05-23386		-121
OPTIMIZATION, DESIGN AND CONTROL OF ROBUST POWER GRIDS	47.041	DMI-05-21741		56,288
OPTOFLUIDICS FOR NEXT GENERATION OF LABORATORY-ON-A-CHIP	47.041	ECCS-07-01729	WON	110,879
OPTOFLUIDICS FOR NEXT GENERATION OF LABORATORY-ON-A-CHIP	47.041	ECCS-07-01729		41,725
P-ADIC AUTOMORPHIC REPRESENTATIONS P-ADIC L-FUNCTIONS AND BLOCH-KATO CONJECTURES	47.041	DMS-07-01279		84,170
PHYSICS OF NON-NEUTRAL PLASMAS CONFINED ON MAGNETIC SURFACES	47.041	PHY-06-13662		110,801
PLANNING GRANT PROPOSAL: IUCRC IN LASERS AND PLASMAS FOR ADVANCED MANUFACTURING	47.041	EEC-06-30297		15,174
PUMPED SPIN CURRENTS FOR HIGH, TUNABLE GATED BANDWIDTH IN INTEGRATED RF MAGNETIC FILTERS	47.041	ECS-06-22138		50,731
QUANTITATIVE SYSTEMS BIOTECHNOLOGY PROGRAM: OPTIMAL INFORMATION PROCESSING IN BIOLOGICAL NETWORKS	47.041	ECS-04-25850	A01	202
QUANTITATIVE SYSTEMS BIOTECHNOLOGY PROGRAM: OPTIMAL INFORMATION PROCESSING IN BIOLOGICAL NETWORKS	47.041	ECS-04-25850	A02	34,556
REU SUPPLEMENT	47.041	ECS-04-24312	A1	336
REU:SIRG/COLLAB RES:DISTRIBUTED SUBWAVELENGTH MICRO PHOTONICSSENSORS FOR IN-SITU MONITORING W/HIGH SPATIAL & TEMPORAL	47.041	DMI-05-28900	REU	1,450
SIRG/COLLAB RSCH: DISTRIBUTED SUBWAVELENGTH MICRO PHOTONIC SENSORS FOR IN-SITU MONITORING	47.041	DMI-05-28900		8,332
SMALL GRANTS FOR EXPLORATORY RESEARCH: AUTOTHERMAL REFORMING OF GREENHOUSE GASES	47.041	CBET-05-53648		3,498
SOFT 3D MEMS: ADVANCED BIOMATERIALS DEVICES	47.041	ECCS-07-47747		58,471
SST: FULLY-INTEGRATED CMOS BIOCHIP ARRAYS FOR MULTICOLOR BIOMOLECULAR DIAGNOSTICS	47.041	BES-04-28544		192,476
SST: ROBUST WIRELESS PIEZOELECTRIC SENSOR NETWORK FOR STRUCTURAL HEALTH MONITORING	47.041	CMS-04-27353		20,492
STOCHASTIC MODELS IN FINANCIAL ENGINEERING	47.041	DMI-05-21963		-7,801
STOCHASTIC MODELS OF CUSTOMER CONTACT CENTERS	47.041	DMI-04-57095		84,887
STUDY OF ROBOT-ASSISTED COCHLEAR IMPLANT INSERTION AND ACTIVE BENDING ELECTRODE ARRAYS	47.041	CBET-06-51649		99,464
SYNTHESIS OF BIOSURFACTANTS AND EVALUATION OF THEIR INTERFACIAL PROPERTIES	47.041	IIP-07-30100		27,328
UNDERSTANDING CHEMICAL COMPLEXITY AND DIVERSITY THROUGH COLLABORATION	47.041	CHE-07-17518		467,482

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The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

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CAREER: NANO-BIOMECHANICS OF LIVING CELLS USING ATOMIC FORCEMICROSCOPY	47.047	BES-02-39138		5,331
ANTARCTICA'S GEOLOGICAL HISTORY REFLECTED IN SEDIMENTARY RADIOGENIC ISOTOPES	47.048	ANT-05-38580		139,525
VULNERABILITY OF THE ARCTIC MARGINAL ICE ZONE TO CHANGES IN DRIFTING ICE	47.048	ARC-06-12455		44,914
Mathematical and Physical Sciences				
A MULTI-WAVELENGTH CALIBRATION OF GALAXY CLUSTERS AS COSMOLOGICAL PROBES	47.049	AST-05-07161		263,708
ACQUISITION OF A 400 MHZ CYBER-ENABLED NUCLEAR MAGNETIC RESONANCE SPECTROMETER FOR TEACHING AND RSCH	47.049	CHE-0840451		2,824
ADMINISTRATIVE NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	23	61,229
ALGEBRAIC GEOMETRY OVER FINITE FIELDS	47.049	DMS-06-00425		46,557
AMC-SS: COLLABORATIVE RSCH: STOCHASTIC PROCESSES & TIME SERIES MODELS: ALGORITHMS, ASYMPTOTICS AND PHASE TRANSITION	47.049	DMS-0806145		118,293
ANALYSIS OF ABSOLUTE DEVIATION, INFERENCE AND MODEL SELECTION	47.049	DMS-0504871		33,210
ANISOTROPIC SELF-ASSEMBLY OF SPHERICAL NANOPARTICLES IN POLYMER NANOCOMPOSITES	47.049	DMR-08-04647		117,746
APPLIED PROBABILITY AND TIME SERIES MODELING	47.049	DMS-07-43459		13,440
ATLAS AND NEUTRINO CONSTRUCTION PROJECTS	47.049	PHY-0758118	CON	95,578
ATLAS PROJECT AT CERN-OFF CAMPUS	47.049	PHY-0758118	#1	921,842
BARNARD SUBCONTRACT NSEC: COLUMBIA CENTER FOR ELECTRONIC	47.049	CHE-06-41523	22	11,940
BAYESIAN METHODS FOR LARGE SCALE APPLICATIONS	47.049	DMS-08-08626		80,808
BIOMIMETIC AND POLYMERIC CATALYSIS IN WATER	47.049	CHE-06-40407		298,954
CAREER: TIME REVERSAL AND INVERSE PROBLEMS IN WAVE AND PARTICLE PROPAGATION	47.049	DMS-02-39097		80,843
CAREER: A NOVEL COSMIC MICROWAVE BACKGRND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS OF COHERENT POLARIMETERS	47.049	AST-04-49809	CON	56,617
CAREER: A NOVEL COSMIC MICROWAVE BACKGRND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS OF COHERENT POLARIMETERS	47.049	AST-04-49809	PR	50,367
CAREER: A NOVEL COSMIC MICROWAVE BACKGROUND POLARIZATION EXPERIMENT BASED ON LARGE ARRAYS	47.049	AST-04-49809	REU	5,246
CAREER: ATOMIC-SCALE ENGINEERING AND IN-SITU ANALYSIS OF MATERIALS FOR SPIN ELECTRONICS	47.049	DMR-02-39724	REU	0
CAREER: ATOMIC-SCALE ENGINEERING AND IN-SITU ANALYSIS OF MATERIALS FOR SPIN ELECTRONICS	47.049	DMR-02-39724		-43
CAREER: CONFINEMENT OF NON-NEUTRAL AND ELECTRON-POSITION PLASMAS ON MAGNETIC SURFACES	47.049	PHY-04-49813	REU	18,750
CAREER: MESOSCOPIC THERMAL AND THERMOELECTRIC TRANSPORT IN LOW DIMENSIONAL MATERIALS	47.049	DMR-03-49232		101,392
CAREER: MULTIMESSENGER ASTRONOMY THROUGH GRAVITATIONAL-WAVES: A STUDENT CENTERED APPROACH	47.049	PHY-0847182		16,793
CAREER: PARTICLE-BY-PARTICLE STUDIES OF HETEROGENEOUS DYNAMICS IN MOLECULAR AND COLLOIDAL GLASSES	47.049	CHE-07-44322		140,113
CAREER: PHYSICS OF NON-NEUTRAL AND ELECTRON-POSITRON PLASMAS CONFINED IN THE CNT STELLARATOR	47.049	PHY-04-49813		129,462
CAREER: SIMULATING COSMOLOGICAL GALAXY FORMATION WITH ADAPTIVE-MESH REFINEMENT	47.049	AST-05-47823		73,624
CAREER: TRANSITION METAL OXIDE NANOCRYSTALS AND COMPOSITE NANOSTRUCTURES	47.049	DMR-03-48938		40,329
CBC--CENTER FOR MOLECULAR CYBERNETICS	47.049	NSF CHE-0533096		61,374
CBC--CENTER FOR MOLECULAR CYBERNETICS	47.049	CHE-0533096	SC1	12,825
CCNY SUBCONTRACT NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	20	110,811
CHEMISTRY AND SELF-ASSEMBLY OF MOLECULES AT LIQUID-SOLID AND VACUUM-SOLID INTERFACES	47.049	CHE-03-52582		-3,872

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CLEAN ROOM NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	25	59,975
CMG: ANALYTICAL AND COMPUTATIONAL STUDIES OF MAGMA DYNAMICS	47.049	DMS-05-30853		45,939
COLLABORATIVE PROPOSAL: THE XENON DARK MATTER PROJECT: CONSTRUCTION AND OPERATION OF A 100 KG DETECTOR	47.049	PHY-0705337	SCP	734,557
COLLABORATIVE PROPOSAL: THE XENON DARK MATTER PROJECT: CONSTUCTION AND OPERATION OF A 100KG DETECTOR	47.049	PHY-0705337	SCP	152,457
COLLABORATIVE PROPOSAL:THE XENON DARK MATTER PROJECT:CONSTRUCTION AND OPERATION OF A 100 KG DETECTOR	47.049	PHY-0705337		146,432
COLLABORATIVE RES: A GENERAL FRAMEWORK FOR HIGH THROUGHPUT BIOLOGICAL LEARNING: THEORY DEVELOPMENT & APPLICATIONS	47.049	DMS-07-14669		64,543
COLLABORATIVE RESEARCH: CATEGORIFICATION OF LINK AND 3-MANIFOLD INVARIANT	47.049	DMS-0706924		168,929
COLLABORATIVE RESEARCH: COMPETITIVE HETEROGENEOUS HYBRIDIZATION IN DNA DIAGNOSTICS	47.049	DMR-07-05814		81,747
COLLABORATIVE RESEARCH: FAST FUNCTIONAL MRI	47.049	DMS-0804198		37,175
COLLABORATIVE RESEARCH: MAGPIS: A MULTI-ARRAY GALACTIC PLANEIMAGING SURVEY	47.049	AST-05-07598		3,775
COLLABORATIVE RESEARCH: MAPPING THE GALACTIC ARECIBO SKY IN THE 21-CM LINE	47.049	AST-0917810		3,921
COLLABORATIVE RESEARCH: MASSIVE SURVEYS FOR PULSARS & RADIO TRANSIENTS USING THE ARECIBO L-BAND FEED ARRAY	47.049	AST-05-07376		62,420
COLLABORATIVE RESEARCH: MASSIVE SURVEYS FOR PULSARS AND RADIO TRANSIENTS USING THE ARECIBO L-BAND FE	47.049	AST-0806942		29,643
COLLABORATIVE RESEARCH: THE ASSEMBLY HISTORY OF THE ANDROMEDA SPIRAL GALAXY	47.049	AST-07-34864		54,121
COLLABORATIVE: THE IONOMER TO POLYELECTROLYTE TRANSITION IN CHARGED POLYMERS	47.049	DMR-07-05435		29,900
COLLARORATIVE RESEARCH: ALGORITHMS FOR NEAR-OPTIMAL MULTI-STAGE DECISION-MAKING UNDER UNCERTAINTY: ONLINE LEARNING	47.049	DMS-07-32169		74,914
COLUMBIA UNIVERSITY RESEARCH EXPERIENCES FOR UNDERGRADUATES	47.049	CHE-07-54919		69,342
COMPUTATIONAL METHODS IN FINANCIAL ENGINEERING	47.049	DMS-04-10234	PR	104,099
COMPUTATIONAL METHODS IN FINANCIAL ENGINEERING	47.049	DMS-04-10234	KOV	-9,126
CONFORMALLY INVARIANT RANDOM SYSTEMS	47.049	DMS-0854759		47,274
CONGRUENCES BETWEEN AUTOMORPHIC FORMS AND LOWER BOUNDS ON SELMER GROUP	47.049	DMS-05-01023		4,019
CONSTRUCTION-LAB INSTRUMT TO STUDY GAS-PHASE NEG ION CHEMIST	47.049	CHE-05-20660 A01	A01	109,683
DESIGN AND ANALYSIS OF "HOW MANY X'S DO YOU KNOW" SURVEYS FOR THE STUDY OF POLARIZATION IN SOCIAL NETWORKS	47.049	DMS-05-32231		16,047
DUSEL R&D PROPOSAL: R&D PROGRAM TO DEVELOP NOVEL CRYOGENIC TRACKING DETECTORS FOR UNDERGROUND EXPERIMENTS	47.049	PHY-06-53541	OFF	148,677
DUSEL R&D PROPOSAL: R&D PROGRAM TO DEVELOP NOVEL CRYOGENIC TRACKING DETECTORS FOR UNDERGROUND EXPERIMENTS	47.049	PHY-06-53541		87,541
DWARF GALAXIES, ABUNDANCE DISTRIBUTIONS AND THE PHYSICS OF GALAXY FORMATION	47.049	AST-08-06558		59,632
DYNAMICS OF GAS PHASE ORGANIC REACTIONS	47.049	CHE-06-16712		102,771
DYNAMICS OF HUMAN BEHAVIOR: DECENTRALIZATION AND LOCAL PUBLIC GOODS: HOW DOES ALLOCATION OF DECIISION-MAKING	47.049	SES-06-24256		213,314
D-ZERO PROJECT AT FERMILAB-OFF CAMPUS	47.049	PHY-0758118	#3	304,468
ELECTRON LIQUIDS IN SEMICONDUCTOR QUANTUM STRUCTURES	47.049	DMR-03-52738	HS	783
ELECTRON TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	DMR-03-52738	AP	137,852
ELECTROPHILIC ATTACK ON COORDINATED LIGANDS INVOLVED IN CATALYSIS BY ORGANOMETALLIC COMPLEXES	47.049	CHE-07-49537		197,392
EMSW21-RTG: NEW TECHNIQUES IN LOW-DIMENSIONAL TOPOLOGY AND GEOMETRY	47.049	DMS-0739392		482,321
ENUMERATIVE GEOMETRY AND TOPOLOGY OF MODULI SPACES	47.049	DMS-0401128		5,156
EQUIPMENT NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	24	76,581
EXCLUDING SUBSTRUCTURES IN GRAPHS	47.049	DMS-0758364		104,796
EXPERIMENTAL PHYSICS RESEARCH PROGRAM AT COLUMBIA UNIVERSITY/ NEVIS LABORATORIES	47.049	PHY-05-00492	CON	107,080
EXPERIMENTAL PHYSICS RESEARCH PROGRAM AT COLUMBIA UNIVERSITY/ NEVIS LABORATORIES	47.049	PHY-05-00492	PR	32,095
EXPERIMENTAL PHYSICS RESEARCH PROGRAM AT COLUMBIA UNIVERSITY/ NEVIS LABORATORIES	47.049	PHY-05-00492	OFF	14,430
EXPERIMENTAL PHYSICS RESEARCH PROGRAM AT COLUMBIA UNIVERSITY/NEVIS LABORATORIES	47.049	PHY-0758118		240,075

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
FEEDBACK FROM THE FIRST STARS	47.049	AST-06-06959		74,165
FOCUSED RESEARCH GROUPS: COLLABORATIVE RESEARCH: ARAKELOV THEORY AND MODULAR FORMS	47.049	DMS-03-54436		-2,982
FOCUSED RESEARCH GROUPS: INVERSE PROBLEMS IN TRANSPORT THEORY	47.049	DMS-05-54097		82,702
FOCUSED RESEARCH GROUPS:COLLABORATIVE RSCH APPLICATIONSOF MULTIPLE DIRICHLET SERIES TO ANALYTIC NUMBER THEORY	47.049	DMS-03-54582		-4,272
FRG: COLLABORATIVE RESEARCH: AUTOMORPHIC FORMS, GALOIS REPRESENTATIONS, AND SPECIAL VALUES OF L-FUNCTIONS	47.049	DMS-04-56298		6,623
FRG: COLLABORATIVE RESEARCH: COMBINATORIAL REPRESENTATION THEORY, MULTIPLE DIRICHLET SERIES & MOMENTS OF L-FUNCTIONS	47.049	DMS-06-52554		83,243
FRG: COLLABORATIVE RESEARCH: GEOMETRIC FLOWS AND APPLICATIONS	47.049	DMS-0354639		34,196
FRG: COLLABORATIVE RESEARCH: GEOMETRY OF MODULI SPACES OF RATIONAL CURVES WITH APPLICATIONS TO DIOPHANTINE PROBLEMS	47.049	DMS-05-54442		63,392
FULVENE CATALYSIS: DEVELOPMENT OF A NEW PLATFORM FOR ASYMMETRIC CATALYSIS	47.049	CHE-0908176		124,789
FURTHER MEASUREMENTS OF THERMAL ENERGY CHARGE TRANSFER IN SUPPORT OF GROUND-BASED ASTRONOMY	47.049	AST-06-06960		147,510
FURTHER MEASUREMENTS OF THERMAL ENERGY CHARGE TRANSFER IN SUPPORT OF GROUND-BASED ASTRONOMY	47.049	AST-06-06960 A	A	210
GENUS ONE CURVES, SELMER GROUPS, AND TATE-SHAFAREVICH GROUPS	47.049	DMS 07-58362		38,736
GEOMETRY AND PDE OF SUBMANIFOLDS OF HIGHER CODIMENSIONS	47.049	DMS-0605115		66,790
HEEGAARD DIAGRAMS AND HOLOMORPHIC DISKS	47.049	DMS-0804121		149,202
HEEGAARD DIAGRAMS AND HOLOMORPHIC DISKS	47.049	DMS-05-05811		21,983
HYBRID LIKELIHOOD METHODS	47.049	NSF DMS-0505201		40,326
IMPROVED UNDERSTANDING OF MOLECULAR CLOUDS AND EMISSION LINE OBJECTS WITH LABORATORY ASTROPHYSICS ST	47.049	AST-0807436		60,059
INTER-AMERICAN MATERIALS COLLAB (CIAM): PROBING QUANTUM PHASE TRANSITIONS BY MUSR & COMPLEMENTARY METHODS	47.049	DMR-05-02706	PR	17,001
INTER-AMERICAN MATERIALS COLLAB (CIAM): PROBING QUANTUM PHASE TRANSITIONS BY MUSR & COMPLEMENTARY METHODS	47.049	DMR-05-02706	OFF	1,772
INVERSE PROBLEMS, ROBUST OPTIMIZATION AND MATHEMATICAL PROGRAMS WITH EQUILIBRIUM CONSTRAINTS	47.049	DMS-06-06712		125,761
K-STABILITY IN ALGEBRAIC GEOMETRY	47.049	DMS-07-00419		24,170
LIMITING BEHAVIOR OF THE RICCI FLOW	47.049	DMS-06-04657		29,664
MATERIALS PHYSICS AND CHEMISTRY OF LIGHT-ION-EXFOLIATION OF SINGLE-CRYSTAL FERROELECTRIC FILMS	47.049	DMR-04-05145	OFF	2,639
MATERIALS PHYSICS AND CHEMISTRY OF LIGHT-ION-EXFOLIATION OF SINGLE-CRYSTAL FERROELECTRIC FILMS	47.049	DMR-04-05145		-3,210
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	KMR	44,578
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	HER	38,954
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	TUR	20,429
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	CNY	16,934
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	UMR	15,568
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	RHM	9,810
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMS-0213574	DIS	163,168
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	FAC	115,337
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	HEI	77,568
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	PRI	64,764
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	DS1	46,985
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	MLS	31,495
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	CHA	30,340
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	OUT	27,739
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	KOB	26,926
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	ADM	25,410

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MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	REU	21,836
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	KIM	19,242
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	RET	13,750
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	ADM	5,675
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574		4,865
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-0213574	FAC	1,631
MATERIALS RESEARCH SCIENCE AND ENGINEERING CENTER: CENTER FOR NANOSTRUCTURED MATERIALS	47.049	DMR-02-13574	BRU	-8,773
MATERIALS WORLD NETWORK: NONLINEAR OPTICAL METAMATERIALS - FABRICATION, CHARACTERIZATION, THEORY	47.049	DMR-08-06682		105,180
MATERIALS WORLD NETWORK: STUDIES OF QUANTUM PHASE TRANSITIONS BY MUSR IN AMBIENT AND APPLIED PRESSURE	47.049	NSF CU08-8516	OFF	186,896
MATERIALS WORLD NETWORK: STUDIES OF QUANTUM PHASE TRANSITIONS BY MUSR IN AMBIENT AND APPLIED PRESSURE	47.049	DMR-0806846		77,205
MOLECULAR DYNAMICS AND MONTE CARLO SIMULATIONS OF CLASSICAL AND QUANTUM SYSTEMS	47.049	CHE-06-13401		51,725
MSPA-MCS: COLAB RSCH: COMPUTATIONAL & MATHEMATICAL FOUNDATIONS FOR THE SYNTHESIS OF MULTIREOLUTION REPRESENTATIONS	47.049	CCF-05-28402		29,895
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	45	6,129
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	25	31
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	21	12
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	16	-2
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	32	-2
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	24	16,191
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	23	-1,549
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	40	-66,830
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	39	-2
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	15B	-24
NANOSCALE SCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-01-17752	22	-9,177
NANOSCALE SENSING OF THE CHEMISTRY AND SELF-ASSEMBLY OF MOLECULES AT INTERFACES USING SCANNING PROBE MICROSCOPY	47.049	CHE-07-01483		174,210
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURE	47.049	CHE-06-41523	PR	71,722
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURE	47.049	CHE-06-41523	13	773
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	7	109,727
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	6	97,726
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523 3	3	88,744
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	16	88,390
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	8	74,864
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523 1	1	73,044
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	10	62,771
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	9	56,597
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	5	37,616
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	4	36,062
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	2	30,060
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	17	11,533
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	11	9,825
NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	15	4,631

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NANOSCIENCE AND ENGINEERING CENTER: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-06-41523	14	1,008
NEUTRINOS FERMILAB/DOUBLECHOOZ @ FRANCE--OFF CAMPUS	47.049	PHY-0758118	#2	521,894
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-05-07111	PR	105,671
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-05-07111	HNE	68,434
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-05-07111	SUB	40,108
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL, AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-05-07111	BRU	64,051
NIRT/SNB: COMBINED OPTICAL, ELECTRICAL, MECHANICAL, AND THERMAL CHARACTERIZATION OF INDIVIDUAL NANOTUBES	47.049	ECS-05-07111	KIM	60,794
NON FERMILAB LIQUID PHYSICS AND QUANTUM CRITICAL PHENOMENA	47.049	DMR-0705847		103,552
NONLINEAR ELLIPTIC AND PARABOLIC PROBLEMS	47.049	DMS-0701045		44,274
NOVEL LAB INSTRUMENT TO STUDY GAS-PHASE NEG ION CHEMISTRY GAS - PHASE NEGATIVE ION CHEMISTRY	47.049	CHE-05-20660		5,459
NSF NANOSCALE SCIENCE AND ENGINEERING CENTER (NSEC): CENTER FOR ELECTRON TRANSPORT IN MOLECULAR NANOSTRUCTURES	47.049	CHE-0641523	SUP	149,378
OUTREACH & EDU NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	28	132,201
PARTIAL DIFFERENTIAL EQUATIONS WITH RANDOM COEFFICIENTS AND INVERSE PROBLEMS	47.049	DMS-0804696		1,887
POSTDOC-NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	18	36,550
PROBING THE ASSEMBLY OF GALAXY CLUSTERS IN NEUTRAL HYDROGEN	47.049	AST-06-07643		135,871
PROBLEM IN COMPLEX ANALYSIS, COMPLEX GEOMETRY, AND MATHEMATICAL PHYSICS	47.049	DMS 07-57372		124,534
PROBLEMS IN ANALYSIS AT THE INTERFACE WITH GEOMETRY AND PHYSICS	47.049	DMS-0245371		9,827
PROG DISCRETIONARY NSEC: COLUMBIA CENTER FOR ELECTRONIC	47.049	CHE-06-41523	19	9,697
QUANTUM AND CLASSICAL COMPLEXITY OF MULTIVARIATE PROBLEMS	47.049	DMS-06-08727		116,925
QUANTUM AND CLASSICAL COMPLEXITY OF MULTIVARIATE PROBLEMS	47.049	DMS-06-08727	SAL	89,913
QUASI-ISOMETRIC GEOMETRY OF GROUPS	47.049	DMS-08-12513		42,029
R & D PROGRAMS TO DEVELOP NEW TRACKING DETECTORS FOR UNDERGROUND EXPERIMENTS	47.049	PHY-00-98826	PR	-2
REACTIONS OF FUNCTIONAL POLYMERS AT ORGANIC INTERFACES	47.049	DMR-07-04054		28,498
REGULARITY OF SOLUTIONS TO NONLINEAR ELLIPTIC PDES	47.049	DMS-0701037		48,749
RELATING STIMULUS SPACE GEOMETRY AND TOPOLOGY TO NEURAL NETWORK ACTIVITY AND CONNECTIVITY	47.049	NSF DMS-0818227		30,101
REU SITE AT NEVIS LABS, COLUMBIA UNIVERSITY	47.049	PHY-07-54124		67,366
REU/RET NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	27	66,585
ROWAN SUBCONTRACT NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	21	32,402
SEARCHING FOR GRAVITATIONAL WAVES USING THE LIGO DETECTORS IN COINCIDENCE WITH ASTROPHYSICAL TRIGGERS	47.049	PHY-04-57528	SUP	3,500
SEARCHING FOR GRAVITATIONAL WAVES USING THE LIGO DETECTORS IN COINCIDENCE WITH ASTROPHYSICAL TRIGGERS	47.049	PHY-04-57528 CON	CON	2,023
SEARCHING FOR GRAVITATIONAL WAVES USING THE LIGO DETECTORS IN COINCIDENCE WITH ASTROPHYSICAL TRIGGERS	47.049	PHY-04-57528		455
SEED BUDGET POOL NSEC: COLUMBIA CENTER FOR ELECTRONIC TRANSPORT	47.049	CHE-06-41523	26	219,876
SEMI-PARAMETRIC REGRESSION MODELS FOR CENSORED DATA	47.049	NSF DMS-0134431		-2,029
SGER DETAILED INTERACTION OF DISLOCATIONS AND GRAIN BOUNDARIES IN NANOSCALE GOLD BICRYSTALS	47.049	DMR-06-50555		-10,439
SILANE REAGENTS AND CATALYSTS FOR ASYMMETRIC SYNTHESIS OF CARBINAMINES	47.049	CHE-0809659		154,533
SIXTH INTERNATIONAL CONFERENCE ON EXTREME VALUE ANALYSIS	47.049	DMS-0926664		16,500
SPARSE PREDICTORS IN FUNCTIONAL DATA ANALYSIS	47.049	NSF DMS-0806088		53,922
SPATIAL INFERENCE WITH APPLICATION TO ASTRONOMY	47.049	AST-05-07687		22,834
SPECTROSCOPY OF ELECTRON LIQUIDS IN QUANTUM STRUCTURES	47.049	DMR-0803691		67,845
STRUCTURE AND DYNAMICS OF METASTABLE MATERIALS	47.049	CHE-07-19089		184,113

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SUM FREQUENCY STUDIES OF LIQUID INTERFACES	47.049	CHE-07-14606		270,091
SUPERNOVA 1987A: VERSATILE ASTROPHYSICAL TOOL & UNIQUE OPPORTUNITY TO STUDY SNR FORMATION	47.049	AST-0807638		179,144
SYNTHETIC, STRUCTURAL AND MECHANISTIC STUDIES OF MAIN GROUP ELEMENT COMPLEXES	47.049	CHE-07-49674		33,537
TASK 1: LIQUID ARGON CALORIMETER DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811	CN1	276,962
THE BARYON DISTRIBUTION IN GALAXY CLUSTERS AND GROUPS: A NEWLOOK WITH THE SUNYAEV-ZEL DOVICH ARRAY	47.049	AST-05-07545		427
THE INTERNATIONAL LINEAR COLLIDER: A PROPOSED NEW ELECTRON POSITRON COLLIDER	47.049	PHY-06-34758		428,741
THE XENON DARK MATTER PROJECT: CONSTRUCTION OF THE 1ST 100 KG MODULE	47.049	PHY-04-00596		-934
TOPICS IN ARITHMETIC ALGEBRAIC GEOMETRY	47.049	DMS-07-00322		75,944
TOPICS IN RISK: SELF-NORMALIZATION, COPULAS, BOUNDARY CROSSING AND APPLICATIONS	47.049	DMS-05-05949		-75
TOPICS IN STOCHASTIC ANALYSIS AND OPTIMIZATION	47.049	DMS-06-01774		87,717
TOPOLOGY OF MANIFOLDS AND ALGEBRAIC VARIETIES	47.049	DMS-0706815		93,263
TOWARDS MULTI-MESSENGER ASTRONOMY WITH GRAVITATIONAL WAVES	47.049	PHY-07-57982		60,390
TOWARDS MULTI-MESSENGER ASTRONOMY WITH GRAVITATIONAL WAVES	47.049	PHY-07-57982	GRA	19,591
TRACING GASEOUS GALAXY EVOLUTION AND GALAXIES AS A TEACHING TOOL FOR MIDDLE SCHOOL AND COLLEGE STUDENTS	47.049	AST-0904059		55,857
U.S. ATLAS OPERATIONS: EMPOWERING U.S. UNIVERSITIES FOR DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811	PRI	6,210,547
U.S. ATLAS OPERATIONS: EMPOWERING U.S. UNIVERSITIES FOR DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811 CN2		2,341,195
U.S. ATLAS OPERATIONS: EMPOWERING U.S. UNIVERSITIES FOR DISCOVERIES AT THE ENERGY FRONTIER	47.049	PHY-06-12811	OFF	42,557
WAVE PROPAGATION AND RESONANCE IN COMPLEX MEDIA	47.049	DMS-07-07850		88,678
WAVE PROPAGATION AND RESONANCE IN COMPLEX MEDIA	47.049	DMS-07-07850	SCP	8,966
Geosciences				
2007 MARINE MAMMAL	47.050	*MAMMAL	07	-81,397
25 MILLION YEARS OF MANTLE UPWELLING BELOW THE MID ATLANTIC RIDGE: THE VEMA LITHOSPHERIC SECTION REVISITED	47.050	OCE-05-51288		82,900
3-D SEISMIC REFLECTION IMAGING: A NEW OPPORTUNITY FOR MARINEGEOSCIENCE RESEARCH	47.050	OCE-05-17854		3,484
A LEADERSHIP WORKSHOP TO MEET THE CHALLENGE OF GLOBAL CLIMATE CHANGE	47.050	GEO-0937461	PAR	9,346
A LEADERSHIP WORKSHOP TO MEET THE CHALLENGE OF GLOBAL CLIMATE CHANGE	47.050	GEO-0937461		5,231
A NEXT-GENERATION INTEGRATED DATA MANAGEMENT SYSTEM FOR RIDGE2000 AND MARGINS	47.050	OCE-0623861		380,628
A TEST OF THE EXISTENCE OF THE EURASIAN - NORTH AMERICAN PLATE BOUNDARY ON SAKHALIN ISLAND	47.050	EAR-07-38629		441
ACCOMPLISHMENT BASED RENEWAL: COMPARING THE THERMAL HISTORIES OF FAST-AND-SLOW SPREADING OCEANIC	47.050	OCE-05-20391		135,346
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.050	SBE-02-45014	A	162,063
AN EXPLORATIONOF THE ROLE OF MOUNTAIN RIVER SINUOSITY IN LANDSCAPE DYNAMICS	47.050	EAR-06-17557		66,851
AN ONLINE REGISTRY FOR UNIQUE SAMPLE IDENTIFICATION IN THE EARTH SCIENCES	47.050	OCE-05-52123		150,226
ANALYSIS OF 9050'N EAST PACIFIC RISE SEISMICITY: INSIGHT INTO HYDROTHERMAL AND MAGMATIC PROCESSES	47.050	OCE-07-32569		109,678
ASSESSING THE FIDELITY OF FORAMINIFERAL MG/CA- D18O TO ESTIMATE SEAWATER D18OR: A MULTISPECIES CALIB	47.050	OCE-07-52649		87,744
BIOGEOCHEMICAL FLOWS OF NITROGEN IN A TROPICAL UPWELLING SYSTEM (ACARIACO TIME SERIES PROJECT)	47.050	OCE-06-23609		38,210
CALIBRATION OF THE R/V LANGSETH SEISMIC SOURCES	47.050	OCE-06-24599		59,134
CAREER: INVESTIGATION OF BUBBLE DYNAMICS IN MICROSCALEGEOMETRIES, WITH APPLICATIONS IN BIOENGINEERING & MICROFLUID	47.050	CTS-06-22862		121,047
CAREER: THE ATMOSPHERIC CHEMISTRY OF ICE AND SNOW	47.050	ATM-0845043		10,125
CIG WORKSHOP ON MATHEMATICAL AND COMPUTATIONAL ISSUES IN THE SOLID EARTH GEOSCIENCES	47.050	EAR-0838863		28,913
COLLAB RES: COSEISMIC SLIP, AFTERSLIP, & VISCOUS RELAXATION IN RESPONSE TO GREAT 2006-2007 KURIL EARTHQUAKES	47.050	EAR-0809718		106,365

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The Trustees of Columbia University in the City of New York

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COLLAB RES: UPLIFT & FAULTING AT THE TRANSITION FROM SUBDUCTION TO COLLISION A FIELD & MODELING	47.050	EAR-06-07687		440,515
COLLAB RES: VARIATIONS & TRENDS IN FALL PRECIPITATION OVER THE CENTRAL UNITED STATES: ISSUES OF PHYSICAL MECHANISMS	47.050	ATM-0739983		70,933
COLLAB RESCH:HOW IS RIFTING EXHUMING THE YOUNGEST HIGH-PRESSURE & ULTRAHIGH-PRESSURE ROCKS THE EARTH	47.050	EAR-08-14236		23,284
COLLAB RESEARCH: DEVELOPMENT OF SF5CF3 FOR OCEAN TRACER EXPERIMENTS	47.050	OCE-04-25404		-3
COLLAB RSCH: COMPARISON OF NUMERICAL, PHYSICAL AND NATURAL EXTENSIONAL FAULT SYSTEMS	47.050	EAR-04-09287		-134
COLLAB RSCH: COREWALL-INTEGRATED ENVIRONMENT FOR INTERPRETATION OF GEOSCIENTIFIC DATA FROM SEDIMENT & CRYSTAL CORES	47.050	OCE-06-01883		17,570
COLLAB RSCH: EARTHCHEM - ADVANCING DATA MANAGEMENT IN SOLID EARTH GEOCHEMISTRY	47.050	EAR-05-22195		142,394
COLLAB RSCH: EARTHCHEM - ADVANCING DATA MANAGEMENT IN SOLID EARTH GEOCHEMISTRY	47.050	EAR-05-22195	C	2,510
COLLAB RSCH: MAPPING UPPER-MANTLE ANISOTROPY IN WESTERN U.S.:CONSTRAINTS ON CRUST-MANTLE COUPLING	47.050	EAR-05-45777		98,722
COLLAB RSCH: OCEANOGRAPHIC & TOPOGRAPHIC INFLUENCES ON DISPERSAL OF HYDROTHERMAL VENT SPECIES	47.050	OCE-04-25361		71,657
COLLAB RSCH: SEISMIC MEASUREMENTS OF MAGMA FLUX, ARC COMPOSITION, & LOWER-PLATE SERPENTINIZATION	47.050	OCE-05-20378		450
COLLAB RSCH: TROPICAL FORCING OF HYDROLOGICAL VARIABILITY OVER NORTH AMERICA DURING THE LAST MILLENIUM	47.050	ATM-05-01878		31,814
COLLAB RSCH: UPPER-MANTLE STRUCTURE BENEATH THE GULF OF CALIFORNIA	47.050	EAR-04-36411		25,405
COLLABORATIVE PROPOSAL: MOORED OBSERVATIONS OF TURBULENT KINETIC ENERGY DISSIPATION	47.050	OCE-07-45442		202,077
COLLABORATIVE RES.: 3-D/4D SEISMIC REFLECTION IMAGING THE MAGMATIC-HYDROTHERMAL SYSTEM AT THE EAST	47.050	OCE-03-27872		246,677
COLLABORATIVE RES: ADVANCED LASER FLUOROMETER (ALF) FOR IN VIVO CHARACTERIZATION OF PHYTOPLANKTON PIGMENTS	47.050	OCE-07-24561		102,421
COLLABORATIVE RES: HIGH-PRECISION TELESEISMIC RELOCATION AND TOMOGRAPHY FOR M9 & M8.7 SUMATRA GREAT	47.050	EAR-06-08739		32,255
COLLABORATIVE RES: WIND, WAVES, RAIN AND THEIR EFFECTS ON AIR-WATER GAS AND MOMENTUM EXCHANGES	47.050	OCE-06-48275		13,884
COLLABORATIVE RES: WIND, WAVES, RAIN AND THEIR EFFECTS ON AIR-WATER GAS AND MOMENTUM EXCHANGES	47.050	OCE-06-48275 EQU	EQU	-4,101
COLLABORATIVE RES: WIND, WAVES, RAIN AND THEIR EFFECTS ON AIR-WATER GAS AND MOMENTUM EXCHANGES	47.050	OCE-06-48275	SC	26,636
COLLABORATIVE RESEARCH: GLOBAL ESTIMATES OF PAST AND FUTURE UPTAKE OF ANTHROPOGENIC CARBON BY THE OCEAN	47.050	OCE-06-23366	PRI	108,391
COLLABORATIVE RESEARCH: GLOBAL ESTIMATES OF PAST AND FUTURE UPTAKE OF ANTHROPOGENIC CARBON BY THE OCEAN	47.050	OCE-06-23366	A	82,691
COLLABORATIVE RESEARCH: A SOUTHERN MID-LATITUDE PERSPECTIVE ON THE LAST ICE AGE BASED ON BE-10 MORaine CHRONOLOGIES	47.050	EAR-0745781		38,216
COLLABORATIVE RESEARCH: A TEST OF THE EXISTENCE OF THE BERING PLATE	47.050	EAR-04-08971		48,578
COLLABORATIVE RESEARCH: ADVANCED MODELS OF MAGMA MIGRATION AT CONVERGENT MARGINS	47.050	OCE-0841079		12,929
COLLABORATIVE RESEARCH: ANALYSIS OF THE INSTANT OBSERVATIONS OF THE INDOONESIAN THROUGHFLOW	47.050	OCE-07-25935		160,078
COLLABORATIVE RESEARCH: ANALYSIS OF THE INSTANT OBSERVATIONS OF THE INDOONESIAN THROUGHFLOW	47.050	OCE-07-25935	PAR	13,510
COLLABORATIVE RESEARCH: BASIN EVOLUTION ALONG CONTINENTAL TRANSFORMS: NESTED HI-RESOLUTION MULTICHANNEL SURVEY	47.050	OCE-03-28119		444,357
COLLABORATIVE RESEARCH: BASIN EVOLUTION ALONG CONTINENTAL TRANSFORMS: NESTED HI-RESOLUTION MULTICHANNEL SURVEY	47.050	OCE-03-28119	SER	162,992
COLLABORATIVE RESEARCH: CHANGES IN OCEAN CIRCULATION, PRODUCTIVITY AND CARBON CYCLE DURING HEINRICH EVENTS	47.050	OCE-05-26522		56,202
COLLABORATIVE RESEARCH: CRUSTAL ACCRETION AND MANTLE PROCESSES ALONG THE SUBDUCTION-INFLUENCED EASTERN LAU	47.050	OCE-0426369		36,128
COLLABORATIVE RESEARCH: DETERMINING THE AIR WATER CO2 FLUX IN COASTAL SYSTEMS	47.050	OCE-05-26677		123,100
COLLABORATIVE RESEARCH: DEVELOPING A NETWORK OF CORAL RECORDS DOCUMENTING SOUTH PACIFIC CLIMATE VARIABILITY	47.050	OCE-03-17941		-41
COLLABORATIVE RESEARCH: DEVELOPMENT AND SUPPORT OF THE MB-SYSTEM SOFTWARE PACKAGE	47.050	OCE-06-23584		46,807
COLLABORATIVE RESEARCH: DIAPYCNAL MIXING ON THE EAST PACIFIC RISE	47.050	OCE-07-28766		108,680
COLLABORATIVE RESEARCH: DYNAMICS OF SUBTROPICAL HUMIDITY	47.050	ATM-05-42736		59,196
COLLABORATIVE RESEARCH: DYNAMICS OF SUBTROPICAL HUMIDITY	47.050	ATM-05-42736	SUP	-1,215
COLLABORATIVE RESEARCH: ESTIMATING THE SIZE AND STRUCTURE OF PATRONAGE NETWORKS	47.050	SES-06-17574		44
COLLABORATIVE RESEARCH: FAST SPIN UP OF OCEAN GENERAL CIRCULATION MODELS USING NEWTON-KRYLOV METHODS	47.050	OCE-0824635		3,261
COLLABORATIVE RESEARCH: GEOMORPHIC TRANSPORT LAWS, LANDSCAPE EVOLUTION, AND FRACTIONAL CALCULUS	47.050	EAR-0823953		20,036

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COLLABORATIVE RESEARCH: GEOTRACES INTERCALIBRATION OF 230TH, 231PA, 10BE, REE, ND ISOTOPES	47.050	OCE-07-52402		112,993
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON, AND TRACER MEASUREMENTS	47.050	OCE-02-23951		685,721
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON, AND TRACER MEASUREMENTS	47.050	OCE-02-23951	SC1	65,666
COLLABORATIVE RESEARCH: GLOBAL OCEAN REPEAT HYDROGRAPHY, CARBON, AND TRACER MEASUREMENTS, 2009-2014	47.050	OCE-0752980		246,801
COLLABORATIVE RESEARCH: GRAVITY CURRENT ENTRAINMENT CLIMATE PROCESS TEAM RENEWAL	47.050	OCE-06-11521		25,329
COLLABORATIVE RESEARCH: HOW IS RIFTING EXHUMING THE YOUNGESTHP/UHP ROCKS ON EARTH?	47.050	EAR-07-08445		9,700
COLLABORATIVE RESEARCH: HYDROLOGY AND SOCIAL INTERACTIONS: A FOCUS ON CONFLICT IN AFRICA	47.050	BCS-0624167		36,562
COLLABORATIVE RESEARCH: INSTANT, INTERNATIONAL NUSANTARA STRATIFICATION AND TRANSPORT PROGRAM	47.050	OCE-02-19782		49,379
COLLABORATIVE RESEARCH: INTEGRATED DATA MANAGEMENT FOR HYDROTHERMAL SPRING GEOCHEMISTRY	47.050	OCE-0819368		13,912
COLLABORATIVE RESEARCH: INVESTIGATING THE DYNAMICS IN DEEP VALLEYS ON THE SEAFLOOR WITH NUMERICAL EXPERIMENTS	47.050	OCE-0751967		67,418
COLLABORATIVE RESEARCH: LABORATORY INVESTIGATIONS OF HEAT AND GAS TRANSFER AT AN AIR-WATER INTERFACE	47.050	OCE-04-25395		5,231
COLLABORATIVE RESEARCH: LANGRANGIAN STUDIES OF THE TRANSPORT TRANSFORMATION, AND BIOLOGICAL IMPACT OF NUTRIENTS	47.050	OCE-02-38564		-123
COLLABORATIVE RESEARCH: MAGMA-TECTONIC PROCESSES IN ACTIVE TRANSITIONAL RIFT FROM SEISMIC, GPS AND MODELING STUDIES	47.050	EAR-06-35898		117,668
COLLABORATIVE RESEARCH: MAPPING MAGNETIC ANOMOLIES IN THE CRETACEOUS QUITE ZONE	47.050	OCE-04-52305		14,946
COLLABORATIVE RESEARCH: MICROSTRUCTURAL AND MODELING CONSTRAINTS ON STRAIN LOCALIZATION, LPO DEVELOP	47.050	EAR-07-39010		28,309
COLLABORATIVE RESEARCH: MID-PLIOCENE GLOBAL WARMING: ANALYSIS USING THREE-DIMENSIONAL (3-D) DIGITAL DATA SETS	47.050	ATM-03-23516		42,369
COLLABORATIVE RESEARCH: MIXING, FLOW AND HYDROGRAPHY IN THE RIFT VALLEY OF THE LUCKY STRIKE SEGMENT	47.050	OCE-05-50730		19,156
COLLABORATIVE RESEARCH: MONITORING INFLATION AT AXIAL SEAMOUNT	47.050	OCE-07-26093		36,665
COLLABORATIVE RESEARCH: NET CARBON TRANSPORT AND REACTION IN THE BOTTOM BOUNDARY LAYER OF AN UPWELLING MARGIN	47.050	OCE-06-28583		2,495
COLLABORATIVE RESEARCH: OCEAN DRILLING DATA DISCOVERY, GLOBAL VISUALIZATION AND SYNTHESIS	47.050	OCE-07-26288		13,785
COLLABORATIVE RESEARCH: P2C2-RECONSTRUCTING TROPICAL PACIFIC CLIMATE VARIABILITY AND MONSOON SYSTEM	47.050	ATM-0823617		19,003
COLLABORATIVE RESEARCH: PAIRED NEODYMIUM ISOTOPE AND RADIO- CARBON ANALYSES IN CORALS-CALIBRATION OF A NOVEL OCEAN	47.050	OCE-06-23107		25,901
COLLABORATIVE RESEARCH: RECONSTRUCTING ENSO WITH INDIVIDUAL FORAMINIFERA	47.050	OCE-07-27428		28,859
COLLABORATIVE RESEARCH: SEISMIC AND GEODETIC IMAGING OF SUBDUCTING TERRANES UNDER NORTH AMERICA	47.050	EAR-08-14235		52,247
COLLABORATIVE RESEARCH: SEISMIC REFLECTION DATA MANAGEMENT SYSTEM FOR MARINE GEOSCIENCES	47.050	OCE-03-26354		5,649
COLLABORATIVE RESEARCH: SEISMIC REFLECTION DATA SYSTEM FOR MARINE GEOSCIENCES II	47.050	OCE-0824630		116,582
COLLABORATIVE RESEARCH: SEISMIC STRUCTURE AND EVOLUTION OF OCEANIC CRUST ALONG THE JUAN DE FUCA RIDGE AND ITS FLANKS	47.050	OCE-06-48303		16,637
COLLABORATIVE RESEARCH: SEISMOLOGICAL AND GEODYNAMIC INVESTIGATIONS OF MANTLE ANISOTROPY	47.050	EAR-06-30124		8,979
COLLABORATIVE RESEARCH: SOUTHERN OCEAN AIR-SEA CO2 EXCHANGE	47.050	OCE-06-47667		170,395
COLLABORATIVE RESEARCH: STUDIES OF ELASTIC AND ANELASTIC STRUCTURE OF THE EARTH'S MANTLE	47.050	EAR-06-08759		5
COLLABORATIVE RESEARCH: TEST FOR A CHEMICAL COMPONENT TO THE UPLIFT OF MIDPLATE SWELLS	47.050	OCE-00-96368		109,643
COLLABORATIVE RESEARCH: TESTING ORBITAL FORCING OF TERRESTRIAL GREENHOUSE CLIMATE? U/PB ZIRCON GEOCHRONOLOGY	47.050	EAR-07-20086		26,197
COLLABORATIVE RESEARCH: TH-230 AS A SEDIMENT FOCUSING INDICATOR: CONSTRAINTS FROM HE-3 IN INTERPLANE	47.050	OCE-0840430		91,171
COLLABORATIVE RESEARCH: THE DYNAMICAL INFLUENCE OF THE STRATOSPHERE ON THE TROPOSPHERE	47.050	ATM-04-37952		32,976
COLLABORATIVE RESEARCH: THE GENESIS OF PRIMITIVE LAVAS FROM THE WESTERN ALEUTIONS	47.050	OCE-07-27013		8,356
COLLABORATIVE RESEARCH: THE PULSE OF HOLOCENE GLACIATIONS IN NEW ZEALAND'S SOUTHERN ALPS	47.050	EAR-0823521		31,435
COLLABORATIVE RESEARCH: WATER ISOTOPE MODEL-DATA COMPARISON FOR HOLOCENE CLIMATE VARIABILITY	47.050	ATM-05-01241		696
COLLABORATIVE RESEARCH: UNDERSTANDING TIDAL RESONANCES IN THE PRESENT-DAY AND ICE-AGE OCEANS	47.050	OCE-06-23611		42,810
COLLABORATIVE RSCH A NEW METHOD FOR UNDERSTANDING MECHANISMS OF ICE SHEET DEMISE USING MARRIED GEN. CIRCULATION	47.050	ATM-0753868		89,910
COLLABORATIVE RSCH A PROPOSAL FOR THE COSMIC-RAY PRODUCED NUCLIDE SYSTEMATICS ON EARTH (CRONUS-EARTH) PROJECT	47.050	EAR-03-45835		25,717

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COLLABORTIVE RSCH: ACQUISITION OF NEW INSTRUMENTATION FOR GEOCHEMICAL STUDIES IN THE EARTH & ENVIRONMENTAL SCIENCE	47.050	EAR-0746273		3,195
COLLB RSCH: ORIGIN, TIMING & SIGNIFICANCE OF MILLENIAL-SCALEICE-RAFTED DETRITUS(IRD) EVENTS IN THE SOUTHERN OCEAN DURING	47.050	OCE-03-50497		4,267
COLLISION OF THE BURMA ARC ACCRETIONARY PRISM AND FOLDBELT WITH THE GANGES-BRAHMAPUTRA DELTA IN BANGLADESH	47.050	EAR-06-36037		54,775
CONTINUOUS REAL-TIME AND NEAR-REAL-TIME MONITORING OF TROPOSPHERIC WATER VAPOR IN ARCTIC SIBERIA BY MEANS OF GPS	47.050	ARC-04-54894		13,543
CREATION OF CONTINENTAL MARGIN: 3D RECONSTRUCTION OF THE GULF OF LION MARGIN FOLLOWING MESSINIAN EROSION	47.050	OCE-02-41964		34
DEVELOPMENT AND TESTING OF "GEOSCIENCE DATA PUZZLES" LOW-BARRIER-TO-ENTRY DATA-USING ACTIVITIES	47.050	GEO-06-08057		12,176
DEVELOPMENT AND TESTING OF A SHIELDED OCEAN-BOTTOM SEISMOMETER TO REDUCE SEAFLOOR LOW-FREQUENCY NOISE	47.050	OCE-0825077		140,101
DEVELOPMENT OF A RAPID METHOD FOR SIMULTANEOUS MEASUREMENT OF SF6 AND CFCS IN WATER	47.050	OCE-03-52259		7,049
DOCTORAL DISSERTATION IMPROVEMENT GRANT: SUSTAINING COMMUNITY AMONG HILL COUNTRY TAMIL IN CENTRAL	47.050	BCS-0823732		14,213
DYNAMICS OF TROPICALLY FORCED ZONALLY SYMMETRIC CLIMATE VARIABILITY	47.050	ATM-05-43256		18,839
EARTHSOPE INTEGRATED INVESTIGATION OF CASCADIA SUBDUCTION ZONE TREMOR, STRUCTURE AND PROCESS	47.050	EAR-08-14237		34,187
ELEMENT RECYCLING FROM UHP METASEDIMENTS: EVIDENCE AND CONSEQUENCES	47.050	OCE-07-42368		8,558
ESTABLISHING A LONG-TERM GEODETIC NETWORK AT THE EAST PACIFIC RISE RIDGE 2000 INTEGRATED STUDIES SITE	47.050	OCE-06-47840		67,587
EXPERIMENTAL PETROLOGY OF PLANETARY MATERIALS	47.050	EAR-06-09108		138,511
FACILITY SUPPORT: THE GLOBAL CMT PROJECT	47.050	EAR-0824694		30,648
FIRST COMPREHENSIVE SAMPLING OF THE SHONA AND DISCOVERY SEAMOUNT CHAIN, SOUTH ATLANTIC-PLUME VERSUS	47.050	OCE-07-38437		119,803
GEOCHEMICAL CONSEQUENCES OF MELT CHANNELIZATION: EXPLORING NEW MODELS FOR URANIUM-SERIES VARIABILITY	47.050	EAR-06-10138		49,321
GLACIAL WATER MASS GEOMETRY IN THE SOUTH ATLANTIC: TESTING NEODYMIUM ISOTOPES VERSUS BENTHIC CARBON ISOTPES	47.050	OCE-07-26575		9,129
HSD: COLLABORATIVE RESEARCH: SOCIAL NETWORKS AS AGENTS OF CHANGE IN CLIMATE CHANGE POLICY MAKING	47.050	BCS-0826892		31,990
INTEGRATION OF THE INDUSTRY 2-D AND 3-D MULTICHANNEL SEISMIC DATA WITH UNDERWAY GEOPHYSICAL DATA	47.050	OCE-05-48812		52,239
INTERACTION OF DUST RADIATIVE FORCING AND THE ASIAN SUMMER MONSOON	47.050	ATM-06-20066		88,116
LONG-PERIOD SOURCE CHARACTERISTICS OF THE GREAT 1964 ALASKA EARTHQUAKE	47.050	EAR-06-09585		113
MAGMATIC WATER ALONG THE CENTRAL AMERICAN ARC	47.050	OCE-0839076		4,644
MANAGING DIGITAL COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: GEOINFORMATICS FOR GEOCHEMISTRY	47.050	OCE-06-49638	CIE	28,854
MANAGING DIGITAL COLLECTIONS FOR THE EARTH & OCEAN SCIENCES: GEOINFROMATICS FOR GEOCHEMISTRY	47.050	OCE-06-49638		134,315
MANTLE DYNAMICS AND MAGMATISM ACROSS THE BASIN AND RANGE	47.050	EAR-07-45797		18,391
MANTLE FLOW AT RIFTS:ANALYSIS OF A NATURAL LAB AT THE GULF OF SUEZ USING A PASCAL SEISMIC ARRAY & NUMERICAL MODEL	47.050	EAR-99-10554		-4,116
MARGINS OFFICE SUPPORT	47.050	OCE-08-23714		411,043
MARGINS POSTDOCTORAL FELLOWSHIP:DECIPHERING THE ROLE OF MELTSEGREGATION & STRAIN PARTITIONING IN RIFTING CONTINENTS	47.050	OCE-06-46696		81,912
MARGINS THEORETICAL AND EXPERIMENTAL INSTITUTE: VOLATILES IN THE SUBDUCTION FACTORY	47.050	OCE-0849289		42,587
MARGINS WORKSHOP: RUPTURING CONTINENTAL LITHOSPHERE: SYNTHESIS AND NEW PERSPECTIVES; APRIL 2009	47.050	OCE-0841102		95,042
MARGINS: CL ISOTOPE SYSTEMATICS OF NEOGENE IZU VOLCANIC ROCKS	47.050	EAR-05-49055		13,415
MARSCICO 2007	47.050	MARSCICO	07	-1,164
MECHANISMS FOR GENERATING SYN-RIFT, FAULT INDEPENDENT SUBSIDENCE: CONSTRAINTS FROM THE EXMOUTH PLATEAU & CUVIER	47.050	OCE-04-25411		7,755
MESOSCALE ANALYSIS AND PREDICITION STUDIES OF THE WEST AFRICIAN MONSOON	47.050	ATM-06-52518		108,978
MITIGATION OF IMPACTS OF OCEAN SCIENCE RESEARCH ON MARINE MAMMALS 2006-2008	47.050	OCE-06-14645		228,291
MITIGATION OF IMPACTS OF OCEAN SCIENCE RESEARCH ON MARINE MAMMALS 2006-2008	47.050	OCE-06-14645	OFF	665,440
MITIGATION OF IMPACTS OF OCEAN SCIENCE RESEARCH ON MARINE MAMMALS 2006-2008	47.050	OCE-06-14645	#2	647,452
MODELING OF THE TROPICAL ATMOSPHERE OCEAN SYSTEM OCEAN SYSTEM	47.050	ATM-03-47009		-25
MODELING THE TROPICAL ATMOSPHERE-OCEAN SYSTEM: DETERMINING THE CAUSES OF NEAR FUTURE SUBTROPICAL DRY	47.050	ATM-0804107		167,041

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ND AN SR ISOTOPE TRACERS OF DEEP AND SHALLOW CIRCULATION AROUND SOUTH AFRICA	47.050	OCE-05-26884		53,407
NEW DIAGNOSTICS OF WATER-MASS VENTILATION ESTIMATED FROM TRACER DATA	47.050	OCE-07-27229	162	102,005
NEW DIAGNOSTICS OF WATER-MASS VENTILATION ESTIMATED FROM TRACER DATA	47.050	OCE-07-27229	670	33,760
OCEANOGRAPHIC INSTRUMENTATION 2008	47.050	OCE-0827872		492,788
OCEANOGRAPHIC TECHNICAL SERVICES 2007-2008, R.V. MARCUS G. LANGSETH	47.050	OCE-07-26710	PR	636,390
OCEANOGRAPHIC TECHNICAL SERVICES 2007-2008, R.V. MARCUS G. LANGSETH	47.050	OCE-07-26710	OFF	3,177,839
OCEANOGRAPHIC TECHNICAL SERVICES 2007-2008, R/V MARCUS G. LANGSETH	47.050	OCE-07-26710	SER	466,499
OCEANOGRAPHIC TECHNICAL SERVICES 2007-2008, R/V MARCUS G. LANGSETH	47.050	OCE-07-26710		87,068
OPAL BURIAL IN EQUATORIAL SEDIMENTS: A TEST OF THE "SILICIC ACID LEAKAGE HYPOTHESIS"	47.050	OCE-03-26969		7,261
OPERATION AND MANAGEMENT OF THE LDEO INSTRUMENT CENTER OF THE NATIONAL OCEAN BOTTOM SEISMETER POOL	47.050	OCE-05-51596		403,872
PETDB, THE PETROLOGICAL DATABASE OF THE OCEAN FLOOR CONTINUED OPERATION	47.050	OCE-07-26068		282,143
POST-ERUPTION SEISMIC MONITORING AT 9N: TOWARD CAPTURING A FULL VOLCANIC CYCLE	47.050	OCE-06-49538		61,203
PRESERVING THE LEGACY OF MG&G OCEAN EXPLORATION: AN ONLINE DATA CATALOG AND LIBRARY FOR THE GLOBAL OCEAN	47.050	OCE-05-26942		336,457
RCN: BIODIVERSITY MECHANISMS OF ECOSYSTEM REGULATION IN THE GLOBAL ENVIRONMENT (BIOMERGE)	47.050	DEB-04-35178		10,006
RECONSTRUCTING THE ROLE OF CO2 IN CLIMATE CHANGE THROUGHOUT THE CENOZOIC STEP 1: THE MID-PLEISTOCENE TRANSITION	47.050	OCE-06-23621		30,361
REPLACEMENT OF THE R/V MAURICE EWING BY A COMMERCIAL 3D SEISMIC VESSEL	47.050	OCE-04-07354	01	1,600,777
REPRESENTATION OF	47.050	ATM-04-17909		57,041
RESEARCH EXPERIENCE FOR STUDENTS OF EARTH & ENVIRONMENTAL SCIENCE JOURNALISM: 2005-2009 (RENEWAL OF EAR-98-05727)	47.050	EAR-04-53212		97,267
REU SITE: ANALYZING GLOBAL DATABASES	47.050	OCE-06-49024		88,742
SCIENTIFIC DRILLING INTO THE SAN ANDREAS FAULT: RARE GAS 'AGES' OF MATRIX FLUIDS	47.050	EAR-07-45965		91,097
SEA LEVEL RECORD OF THE LAST GLACIAL PERIOD 19,000 TO 29,000 YEARS BP	47.050	OCE-05-50900		-4,577
SEDB: AN ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY	47.050	OCE-04-53958	PR	121,731
SEDB: AN ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY	47.050	OCE-04-53958	CSN	2,098
SEDDb, THE ONLINE INFORMATION SYSTEM FOR SEDIMENT GEOCHEMISTRY CONTINUED OPERATION AND DEVELOPMENT	47.050	OCE-0826197		22,600
SEISMIC SYSTEM FOR HLY0602 (LAWVER)	47.050	ARC-06-37107		-138
SGER: A SEAFLOOR CAMERA SYSTEM FOR FLOW RATE MEASUREMENTS IN BLACK SMOKER VENTS	47.050	OCE-0917955		6,045
SGER: A SEAFLOOR CAMERA SYSTEM FOR FLOW RATE MEASUREMENTS IN BLACK SMOKER VENTS	47.050	OCE-0917955	EQI	677
SGER: DEEP MAGMATIC PLUMBING OF THE LOWER CRUST AND UPPER MANTLE AT THE EAST PACIFIC RISE	47.050	OCE-06-24401		35,281
SGER: DIAGNOSING EL NINO-INDUCED TROPICAL DROUGHTS IN SEASONAL FORECASTS AND CLIMATE CHNAGE PROJECTIONS	47.050	ATM-07-39024		4,423
SGER: INVESTIGATING THE JOINT OCCURRENCE OF SUMMER DROUGHT AND HEAT WAVES IN CLIMATE CHANGE	47.050	ATM-0739256		6,505
SGER: QUANTIFYING SUBGLACIAL EROSION RATES AND TIMING OF HOLOCENE WARM PERIODS BY IN-SITU 14C/10BE - A PROOF OF CONCEPT	47.050	EAR-0834294		18,141
SGER: REASSESSING THE ROLE OF PLANKTONIC AMOEBOID PROTISTS IN ESTUARINE MICROBIAL FOOD WEBS	47.050	OCE-0845799		55,041
SGER-COLLECTION AND EXPLORATORY ANALYSIS OF MOLECULAR AND MICROBIAL SAMPLES	47.050	EAR-07-43964		4,948
SHIP OPERATION - 2004	47.050	OCE-02-03703	ON	-4
SHIP OPERATIONS AWARD 2008	47.050	OCE-08-13737		10,306,455
SHIP OPERATIONS AWARD 2008 - R/V MARCUS LANGSETH	47.050	OCE-0813737	MAT	722,441
SHIPBOARD SCIENTIFIC SUPPORT EQUIPMENT 2008	47.050	OCE-0825670		87,377
SOUTH CHINA SEA- INDONESIA SEAS TRANSPORTATION /EXCHANGE (SITE)	47.050	OCE-07-51927		212,629
STUDIES OF GLOBAL AND REGIONAL SEISMICITY	47.050	EAR-07-10842		152,659
STUDIES OF GLOBAL AND REGIONAL SEISMICITY	47.050	EAR-06-39963		7,192

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STUDIES RELATED TO ESTABLISHING A VALID RADIOCARBON VENTILATION RATE FOR THE GLACIAL OCEAN	47.050	OCE-04-35703		44,354
STUDY OF INNER CORE MOTIONS USING SEISMIC WAVEFORM DOUBLETS	47.050	EAR-05-10641		-46
SUPPLEMENTAL: PROPOSAL TO ESTABLISH A US GEOTRACES PROJECT OFFICE	47.050	OCE-06-23629		183,741
SUPPORT FOR A SYMPOSIUM TO HONOR ALAN PLUMB'S CONTRIBUTIONS TO THE SCIENCE OF STRATOSPHERIC DYNAMICS	47.050	ATM-0846306		9,167
TESTING MODELS OF MAGMA MOVEMENT ALONG THE EAST PACIFIC RISE USING COMBINED GEODITIC AND NUMERICAL EXPERIMENTS	47.050	OCE-04-26575	PR	13,200
TESTING THE PROCESSOF MELT DIFFERENTIATION IN THE MEXICAN VOLCANIC BELT	47.050	EAR-07-38707		95,805
THE CONTROL OF PHOTOSYNTHETIC QUANTUM YIELD OF PHYTOPLANKTONBY LIGHT INTENSITY AND DIAPYCNAL NUTRIENT FLUX	47.050	OCE-05-50725		229,870
THE LDEO DEEP-SEA REPOSITORY AND THE CURATING AND MAINTENANCE OF THE SEDIMENT LIBRARY AND DREDGE COLLECTION	47.050	OCE-07-51761		197,628
THE NEXT DECADE OF THE SEISMOGENIC ZONE EXPERIMENT	47.050	OCE-08-11176	PAR	78,777
THE NEXT DECADE OF THE SEISMOGENIC ZONE EXPERIMENT	47.050	OCE-08-11176		14,192
THE SR-ND-PB-HF ISOTOPE EVOLUTION OF THE MARIANA ISLAND ARC	47.050	EAR-0840848		26,612
THE TRISTAN-GOUGH PLUME SOURCE AND CONSTRAINTS ON THE COMPOSITION OF RECYCLED SEDIMENT	47.050	EAR-04-08543		26,058
TRACKING PAST SHIFTS OF THE EASTERN PACIFIC ITCZ WITH OXYGENISOTOPES AND MAGNESIUM PALEOTHERMOMETRY	47.050	OCE-04-02478		44,491
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474		169,930
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	GJ2	92,485
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	BB6	89,353
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	WW8	74,135
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	BB5	72,196
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	EC7	71,523
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	GJ3	408
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	RD4	-6,213
TREE-RING RECONSTRUCTION OF ASIAN MONSOON CLIMATE DYNAMICS	47.050	ATM-04-02474	WW9	-10,861
TRIASSIC-JURASSIC MASS EXTINCTION CAUSED BY VOLCANISM? BIO- AND MAGNETOSTRATIGRAPHIC TESTS IN EASTER	47.050	EAR-07-53496		30,348
VALIDATION OF THE B/CA PROXY FOR SURFACE SEAWATER PH AND APPLICATION TO MEASURE ANTHROPOGENIC OCEAN	47.050	OCE-07-51764		113,748
VOLATILES IN ALEUTIAN ARC MAGMAS	47.050	EAR-0852462		270
VOLATILES IN TONGA ARC MAGMAS	47.050	OCE-0839061		58,785
VOLCANIC ARC	47.050	OCE-04-53515		38,433
WORKSHOP ON INTERGRATED SCIENTIFIC CORING ON THE COLORADO PLATEAU: EARLY MESOZOIC HISTORY OF WEST PANGEA	47.050	EAR-07-41661		4,386
YR 3: SEISMIC MONITORING OF THE 9N EAST PACIFIC RISE RIDGE 2000 INTEGRATED STUDIES SITE	47.050	OCE-03-27283		3,985
Computer and Information Science and Engineering				
ADVANCED SIGNAL PROCESSING FOR HIGH-SPEED OPTICAL FIBER SYSTEMS	47.070	CCF-07-26480		97,594
ANALOG-INSPIRED DIGITAL SIGNAL PROCESSORS	47.070	CCF-07-01766		116,331
ANALYSIS AND DISPLAY OF SEMANTICS OF STRUCTURED AND UNSTRUCTURED VIDEOS	47.070	IIS-07-13064		163,067
BUILDING DISTRIBUTED COMPUTATIONAL PLATFORMS ON TOP OF A NETWORK OF MULTIPLE CABLE SET-TOP DEVICES	47.070	CNS-06-44202		73,293
CACHE-AWARD DATABASE SYSTEMS ON MODERN MULTI-READING PROCESSORS	47.070	IIS-05-34389		49,405
CAREER: DISCRIMINATIVE AND GENERATIVE MACHINE LEARNING WITHAPPLICATIONS IN TRACKING AND GESTURE RECOGNITION	47.070	IIS-03-47499		125,971
CAREER: EFFICIENT LEARNING ALGORITHMS FOR RICH FUNCTION CLASSES	47.070	CCF-03-47282		47,852
CAREER: FLEXIBLE, LARGE-SCALE, BEST EFFORT QUALITY OF SERVICE IN THE INTERNET	47.070	CNS-01-33829		-21
CAREER: INTELLIGENT FLEXIBLE ROBOTS FOR SAFE MANIPULATION OF ANATOMY	47.070	IIS-0844969		2,332

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CAREER: MACHINE LISTENING: SOUND ORGANIZATION FOR MULTIMEDIAUNDERSTANDING	47.070	IIS-02-38301		16,899
CAREER: MATHEMATICAL AND COMPUTATIONAL FUNDAMENTALS OF VISUAL APPEARANCE FOR COMPUTER GRAPHICS	47.070	CCF-04-46916		10,887
CAREER: STRENGTHENING CRYPTOGRAPHY BY REDUCING ASSUMPTIONS ABOUT THE ADVERSARY	47.070	CCF-03-47839		36,449
CELL DEATH BY BOOLEAN CALCULATIONS WITH ANTIBODIES	47.070	NSF CU52238902		55,695
CMOS VLSI DESIGN OF LOW POWER SCALABLE HETEROGENEOUS NETWORKS FOR MULTI-CORE SYSTEMS-ON-CHIP	47.070	CCF-05-41278		24,214
CMOS VLSI DESIGN OF LOW POWER SCALABLE HETEROGENEOUS NETWORKS FOR MULTI-CORE SYSTEMS-ON-CHIP	47.070	CCF-0541278	PAR	2,125
COLL. RES: CRI:A TESTBED FOR RESEARCH & DEVELOPMENT OF SECURE IP MULTIMEDIA COMMUNICATION SERVICES	47.070	CNS-05-51538		9,754
COLLAB RES: CSR-AES: INTERACTIVE PARALLEL PLATFORMS FOR MULTI-EXPERIMENT COMPUTATIONAL STUDIES	47.070	CNS-06-14770		38,544
COLLABORATIVE PROPOSAL: EMT/MISC: BEHAVIOR-BASED MOLECULAR ROBOTICS	47.070	NSF CU-08-9414		52,215
COLLABORATIVE RESEARCH IN COMPUTER GRAPHICS: REAL-TIME VISUALIZATION AND RENDERING OF COMPLEX SCENES	47.070	CCF-03-05322		-2
COLLABORATIVE RESEARCH: A MULTIREPRESENTATIONAL & MULTILAYERED TREEBANK FOR HINDI/URDU	47.070	CNS-0751089		13,176
COLLABORATIVE RESEARCH: CRI: IAD: A TESTBED FOR RESEARCH AND DEVELOPMENT OF NEXT GENERATION 9-1-1	47.070	CNS-07-51094		68,060
COLLABORATIVE RESEARCH: CSR-CORE-EHS: PRECISION TIMED ARCHITECTURES	47.070	CNS-07-20292		57,956
COLLABORATIVE RESEARCH: DETECTION OF SPAM IN IP MULTIMEDIA COMMUNICATION	47.070	CNS-06-27530		7,795
COLLABORATIVE RESEARCH: EMT/MISC: MAKING MOLECULAR COMPUTATION PRACTICAL FOR BIODETECTION APPLICATIONS	47.070	CCF-0829793		65,653
COLLABORATIVE RESEARCH: FAST AND ACCURATE VOLMETRIC RENDERING OF SCATTERING PHENOMENA IN COMPUTER GRAPHICS	47.070	CCF-05-41259		69,403
COLLABORATIVE RESEARCH: FIND: NETSERV-ARCHITECTURE OF A SERVICE-VIRTUALIZED INTERNET	47.070	CNS-0831912		33,079
COLLABORATIVE RESEARCH: SEPARATING SPEECH FROM SPEECH NOISE TO INCREASE INTELLIGIBILITY	47.070	IIS-05-35168		58,348
COLLABORATIVE RESEARCH: TRANSLATING PROSODY IN AN ENGLISH/ CHINESE LANGUAGE TUTORING SYSTEM	47.070	IIS-05-34568		60,969
COMPUTER AND INFORMATION SCIENCE AND ENGINEERING RESEARCH INFRASTRUCTURE: PERVASIVE PIXELS	47.070	EIA-02-02063		129,821
COMPUTER SYST RESEARCH/EMBEDDED/HYBRID SYST/SOFTWARE/HARDWARE INTEGRAT MEDIUM/DEVEL EMBEDDED SYST W/CURRENCY	47.070	CNS-06-14799		127,062
COMPUTING RESEARCH INFRASTRUCTURE: COLLABORATIVE RESEARCH: WORKIT: A UNIVERSAL WIRELESS OPEN RESEARCH KIT	47.070	CNS-04-54288		7,286
COUPLING THE HIGH RESOLUTION OF LASER MEASUREMENTS AND FINITE-ELEMENT SIMULATIONS TO UNDERSTAND TRANSPORT	47.070	CTS-06-22849		22,026
CPA-CSA: PHOTONIC INTERCONNECTION NETWORKS FOR CHIP-MULTIPROCESSOR COMPUTING SYSTEMS	47.070	CCF-0811012	BER	70,382
CPA-CSA: PHOTONIC INTERCONNECTION NETWORKS FOR CHIP-MULTIPROCESSOR COMPUTING SYSTEMS	47.070	CCF-0811012		58,521
CRI: CRD COLLABORATIVE RES: GENERAL TECHS FOR CREATING TREEBANKS WITH MULTIPLE REPRESENTATIONS: A LARGE-SCALE+B3305	47.070	CNS-07-08183		14,533
CRI: CRD: COLLABORATIVE RESEARCH: LARGE ANALYTICS LIBRARY AND SCALABLE CONCEPT ONTOLOGY FOR MULTIMED	47.070	CNS-07-51078		25,682
CROSS-LEVERAGING LEARNING THEORY WITH CRYPTOGRAPHY	47.070	CNS-07-16245		51,464
CROSS-LEVERAGING LEARNING THEORY WITH CRYPTOGRAPHY	47.070	CNS-07-16245	SER	50,079
CSR-VCM: MECHANISIMS FOR REDUCING SYSTEM DOWNTIME DUE TO MAINTENANCE AND UPGRADES	47.070	CNS-07-17544	KAI	163,702
CSR-VCM: MECHANISIMS FOR REDUCING SYSTEM DOWNTIME DUE TO MAINTENANCE AND UPGRADES	47.070	CNS-07-17544	NIE	110,662
CT-ISG COLLABORATIVE RESEARCH: TAMPER PROOFING CRYPTOGRAPHIC OPERATIONS	47.070	CNS-0831094		29,120
CT-ISG: INTEGRATED ENTERPRISE SECURITY MANAGEMENT	47.070	CNS-07-14647		112,527
CT-ISG: PACKETSPREAD: PRACTICAL NETWORK CAPABILITIES	47.070	CNS-07-14277		88,130
CT-ISG: UNDERSTANDING CONTROL PLANE SECURITY: THE METHOD OF STRONG DETECTION	47.070	CNS-06-27590		136,125
CYBRER TRUST - RESTORE THE TRUSTWORTHINESS OF DIGITAL PHOTOGRAPHS: BLIND DETECTIONOF DIGITAL PHOTOGRAPH TAMPERING	47.070	IIS-04-30258	A1	27
CYBRER TRUST - RESTORE THE TRUSTWORTHINESS OF DIGITAL PHOTOGRAPHS: BLIND DETECTIONOF DIGITAL PHOTOGRAPH TAMPERING	47.070	IIS-04-30258		-5,179
DATA-DRIVEN MUSIC UNDERSTANDING	47.070	IIS-07-13334		116,005
DCS: RETROFITTING A FLOW-ORIENTED PARADIGM IN COMMODITY OPERATION SYSTEMS FOR HIGH PERFORMANCE COMPUTING	47.070	CCF-05-41093		114,985
DOCTORAL CONSORTIUM AT THE HUMAN LANGUAGE TECHNOLOGY CONFERENCE - NORTH AMERICAN CHAPTER	47.070	IIS-07-07305		-57

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EFFICIENT ALGORITHMS FOR PROBLEMS IN THE NEXT GENERATION OF COMPUTING	47.070	CCF-07-28733		59,656
EMERGING MODELS & AND TECHNOLOGIES -- COOPERATIVE AND ADAPTIVE BEHAVIORS IN MOLECULAR ROBOTS	47.070	CCF-0523317		975
EMT: COMPUTATIONAL METHODS FOR MAPPING GENEALOGY OF UNRELATED INDIVIDUALS	47.070	CCF-0829882		47,020
ENZYMATIC NETWORKS FOR PATTERN RECOGNITION--BASIC PRINCIPLESAND APPLICATIONS	47.070	NSF CFF-0726586		206,876
EXPECTING THE UNEXPECTED: A STUDY OF NETWORK VULNERABILITIES	47.070	ANI-02-38299		1,916
GENI WORKING GROUP MEETINGS - OPT-IN	47.070	CNS-0822954		1,158
HRI: COLLABORATIVE PROPOSAL: INCREMENTAL WIZARD ABLATION: A NOVEL WOZ PARADIGM FOR LEARNING, TESTING AND EVALUATING	47.070	IIS-0745369	PAR	6,625
INCREMENTAL WIZARD ABLATION: A NOVEL WOZ PARADIGM FOR LEARNING, TESTING AND EVALUATING HUMAN-MACHINE DIALOG	47.070	IIS-07-45369		142,424
INFORMATION REPRESENTATION AND COMPUTATION IN THE TIME DOMAIN	47.070	CCF-06-35252		91,602
INFORMATION TECHNOLOGY RESEARCH: AN ELECTRONIC FIELD GUIDE:PLANT EXPLORATION AND DISCOVERY IN THE 21ST CENTURY	47.070	IIS-03-25867	A01	157,782
INFORMATION TECHNOLOGY RESEARCH: AN ELECTRONIC FIELD GUIDE:PLANT EXPLORATION AND DISCOVERY IN THE 21ST CENTURY	47.070	IIS-03-25867	A02	82,297
INFORMATION TECHNOLOGY RESEARCH: AN ELECTRONIC FIELD GUIDE:PLANT EXPLORATION AND DISCOVERY IN THE 21ST CENTURY	47.070	IIS-03-25867	A03	66,880
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A05	22,906
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A01	125,098
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A03	89,427
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A02	49,070
INTEGRATED TECHNOLOGY RESEARCH FOR NATIONAL PRIORITIES: SECURE REMOTE COMPUTING SERVICES	47.070	CNS-04-26623	A04	19,412
IPY/ASEP COLLABORATIVE INTERNATIONAL RESEARCH: AMUNDSEN SEA INFLUENCE ON WEST ANTARTIC ICE SHEET STABILITY	47.070	ANT-0632282		645,983
ITR COLLAB RSCH-ASE-(SIM+DMC): IMAGE-BASED BIOPHYSICAL MODELING: SCALABLE REGISTRATION & INVERSION & INVERSION	47.070	CCF-04-27464		79,077
ITR COLLABORATIVE RESEARCH: PEER TP PEER NETWORKING THEORY	47.070	CNS-03-25495		108,434
ITR COLLABORATIVE RESEARCH: PEER-TO-PEER NETWORKING THEORY	47.070	CNS-03-25495	A1	207,550
NANOPHOTONIC, ULTRA-LOW LATENCY DATA INTERCONNECTION NETWORK FOR HIGH PERFORMANCE COMPUTING	47.070	CCF-05-23771		15,619
PA-DA-T: DESIGN AND TOOLS FOR EASY-TO-PROGRAM MASSIVELY PARALLEL ON-CHIP SYSTEMS	47.070	CCF-0811504		104,790
QNTM: QUANTUM COMPUTATIONAL LEARNING	47.070	CCF-05-23664		43,723
QUANTUM AND CLASSICAL COMPLEXITY OF CONTINUOUS PROBLEMS	47.070	CCF-04-29211	PRI	353
RESEARCH IN GAMES. FOXPOINTS AND APPROXIMATION	47.070	CCF-07-28736		110,000
RI: EMAIL, SOCIAL NETWORKS, AND ORGANIZATIONS: INVESTIGATING HOW WE USE LANGUAGE TO CREATE AND NAVIGATE	47.070	IIS-07-13548		189,099
RI-MEDIUM: COLLABORATIVE:CORPUS-BASED STUDIES OF LEXICAL, ACOUSTIC-PROSODIC, & DISCOURSE ENTRAINMENT IN SPOKEN DIALOG	47.070	IIS-0803148		32,693
SMALL GRANT FOR EXPLORATORY RESEARCH: CREATING A FUTURE INTERNET NETWORK ARCHITECTURE WITH A PROG	47.070	CNS-0837995		58,592
SOLUTION PHASE COMPUTATION WITH ENZYMATIc NETWORKS	47.070	IIS-0324845		196,181
SYSTEMS MODELING & ANALYSIS/PARALLEL & DISTRIBUTED OPERATING SYS COLLAB RES/DESIGN, ANALYSIS/CONTROL	47.070	CNS-06-15126		118,113
SYSTEMS MODELING & ANALYSIS/PARALLEL & DISTRIBUTED OPERATING SYS COLLAB RES/DESIGN, ANALYSIS/CONTROL	47.070	CNS-06-15126	EE	50,023
TEXT-TO-TEXT GENERATION FOR SUMMARIZING INFORMAL GENRES	47.070	IIS-05-34871		42,013
TEXT-TO-TEXT GENERATION FOR SUMMARIZING INFORMAL GENRES	47.070	IIS-0534871	PAR	6,133
THEORY AND ALGORITHMS FOR HIGH QUALITY REAL-TIME RENDERING AND LIGHTING/MATERIAL DESIGN IN COMPUTER GRAPHICS	47.070	CCF-07-01775		18,417
TRUSTWORTHY MEDIA-BLIND PASSIVE MEDIA FORENSICS FOR CONTENT INTEGRITY VERIFICATION	47.070	CNS-07-16203	ELL	50,585
TRUSTWORTHY MEDIA-BLIND PASSIVE MEDIA FORENSICS FOR CONTENT INTEGRITY VERIFICATION	47.070	CNS-07-16203		49,109
VISION THROUGH RAIN AND SNOW	47.070	IIS-04-12759		-34,738
WORKSHOP ON NETWORKING RESEARCH CHALLENGES; SEPTEMBER 28-30, 2008; SEATTLE, WASHINGTON	47.070	CNS-0836852		35,000

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Biological Sciences				
A STRUCTURAL APPROACH TO THE FUNCTIONAL GENOMICS OF SOLUBLE TRANDEM ABC PROTEINS	47.074	MCB-04-24043		114,963
ASSIGNMENT AND STRUCTURAL CHARACTERIZATION OF UNIFORMLY LABELED PROTEINS BY SOLID STATE NMR	47.074	MCB-07-49381		246,314
CAREER: THE ROLE OF RIBOSOME CONFORMATIONAL DYNAMICS ON THE MECHANISM OF PROTEIN SYNTHESIS	47.074	MCB-06-44262		160,023
CAREER: USING ADVANCED STATISTICAL TECHNIQUES TO DECIPHER THE NEURAL CODE	47.074	IOS-06-41912		35,645
CAREER: USING HIGH-THROUGHPUT SINGLE-MOLECULE ANALYSIS TO REVEAL THE MECHANISMS OF TARGET SITE LOCATION BY DNA REPAIR	47.074	MCB-0544638		139,357
CELLULAR MEDIATOR OF THERMOREGULATORY RESPONSES	47.074	IOS-05-54514	PRI	-1,549
COLLABORATIVE RES: TESTING BIODIVERSITY-ECOSYSTEM FUNCTIONING RELATIONSHIPS IN AN ECOLOGICAL STOICHIOMETRY FRAMEWORK	47.074	DEB-0618186		10,066
COLLABORATIVE RESEARCH: ARABIDOPSIS 2010: FUNCTION/STRUCTURE	47.074	*NSF /2004		278,799
COLLABORATIVE RESEARCH: MECHANISMS INFLUENCING SEEDING RECRUITMENT AND ESTABLISHMENT IN A FRAGMENTED	47.074	DEB-0614339		51,283
COLLABORATIVE RESEARCH: THE IMPACT OF ECONOMIC GLOBALIZATION ON HUMAN DEMOGRAPHY, LAND USE AND NATURAL SYSTEMS	47.074	EF-07-09606		67,441
ELUCIDATING FUNCTION AND ORGANIZATION OF MOLECULAR NETWORKS FROM MOLECULES TO A SYSTEM	47.074	MCB-07-49710		11,430
EPIGENETIC REGULATION BY EGGLESS, A HISTONE METHYLTRANSFERASE, IN OOGENESIS AND DEVELOPMENT	47.074	IOS-0744814		64,084
IPY: AUTOTROPHIC RESPIRATION IN A CHANGING ARCTIC CLIMATE: MECHANISTIC RESPONSES AND ECOSYSTEM	47.074	EF-07-32664		76,963
MINIATURIZED CALORIMETRIC INSTRUMENTS FOR PROBING BIOMOLECULAR ENERGETICS	47.074	DBI-06-50020		122,688
MOLECULAR EVENTS WITHIN THE NEURONAL GROWTHCONE	47.074	NSF CU52116901A1		105,680
RCN: TRAITNET-COORDINATING TRAIT-BASED ECOLOGICAL AND EVOLUTIONARY RESEARCH	47.074	IOS-06-39161		13,654
THEORETICAL STUDIES OF MEMBRANE PROTEINS	47.074	MCB-0416708		196,973
Social, Behavioral, and Economic Sciences				
ADMINISTRATIVE JUSTICE IN PUBLIC WELFARE BUREAUCRACIES	47.075	SES-0849193		6,681
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.075	SBE-02-45014	PC	186,512
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.075	SBE-02-45014	SPH	66,684
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.075	SBE-02-45014	PR	11,951
ADVANCE INSTITUTIONAL TRANSFORMATION AWARD: EARTH INSTITUTE OF COLUMBIA UNIVERSITY	47.075	SBE-02-45014	APS	9,795
AFFECTIVE AND DELIBERATIVE RISKY DECISION MAKING IN CHILDREN, ADOLESCENTS, AND ADULTS	47.075	SES-0720932		61,774
AOC: GLOBAL MARKETS, REGIONAL LANDSCAPES, & HOUSEHOLD DECISIONS: MODELING THE HISTORY OF TRANSFORMATION	47.075	BCS-0527578		48,406
APPLICATIONS OF TRANSPORTATION PROBLEMS AND STRONGLY NONLINEAR SYSTEMS OF PDE IN ECONOMICS	47.075	SES-05-32398		27,726
APPROVAL REGULATION	47.075	SES-05-19082		70,496
AUTOMATIC PROCESSING OF NATURAL LANGUAGE CODE SWITCHING	47.075	BCS-07-49062 B	B	2,896
AUTOMATIC PROCESSING OF NATURAL LANGUAGE CODE SWITCHING	47.075	BCS-07-49062	A	-14
BENEFITS AND DRAWBACKS OF INDIVIDUAL AND GROUP DECISIONS: INSIGHTS FOR ENVIRONMENTAL DECISION MAKING	47.075	SES-07-20452		32,969
BENEFITS AND DRAWBACKS OF INDIVIDUAL AND GROUP DECISIONS: INSIGHTS FOR ENVIRONMENTAL DECISION MAKING	47.075	SES-07-20452	REU	6,740
CENTER FOR THE STUDY OF INDIVIDUAL AND GROUP DECISION MAKING	47.075	SES-03-45840		513,611
COLLAB RSCH: UNDERSTANDING THE GENDER GAP IN EARNINGS: HOUSEHOLD PRODUCTION, MARKET PRODUCTION, & LABOR CONTRACTS	47.075	SES-05-51511		30,902
COLLABORATIVE RESEARCH: BOUNDARY CONFLICTS, COLLECTIVE CHOICE INSTITUTIONS, AND CONFLICT RESOLUTION MECHANISMS	47.075	SES-04-51588		-5,858
COLLABORATIVE RESEARCH: GEOGRAPHY, TRADE, AND PRICES	47.075	SES-0820462		92,594
COLLABORATIVE RESEARCH: METHODS FOR ANALYZING LARGE DIMENSIONAL DATA	47.075	SES-0901100		30,485
COLLABORATIVE RESEARCH: MOTHERHOOD AND MEDICINE: AN HISTORICAL PERSPECTIVE ON HEALTH	47.075	SES-0820135		104,755
COLLABORATIVE RESEARCH: MULTICENTURY DROUGHT RECONSTRUCTIONS FROM GUATEMALA & THE CONTEXT FOR PAST AND FUTURE	47.075	BCS-0852652		15,031

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COLLABORATIVE RESEARCH: PRIMARY ELECTIONS FOR US STATE AND FEDERAL OFFICES: A COMPREHENSIVE DATABASE AND ANALYSIS	47.075	SES-06-17556		8,638
COLLABORATIVE RESEARCH: THEORY, EXPERIMENTS, AND EMPIRICAL METHODOLOGY OF COALITION BARGAINING	47.075	SES-08-11966		88,066
COLLECTIVE ACTION, RECIPROCITY AND KINSHIP IN BLUE MONKEY SOCIETY	47.075	BCS-05-54747	PR	44,711
DISSEMINATING COMPUTATIONAL MODELING IN THE SOCIAL SCIENCES	47.075	SES-07-47733		39,501
DOCTORAL DISSERTATION IMPROVEMENT GRANT: CIVIL WAR AND THE MATERIAL, SOCIAL AND AFFECTIVE CONSEQUENCES OF ISOLATION	47.075	BCS 0819336		14,000
DOCTORAL DISSERTATION IMPROVEMENT: PREDICTING INTERGROUP RELATIONSHIPS IN PRIMATES (TWO CASE STUDIES)	47.075	BCS-0824512		14,714
EARTH INSTITUTE INDIVIDUAL + GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-03-45840	KTZ	1,752
EARTH INSTITUTE: INDIVIDUAL AND GROUP DECISION MAKING UNDER CLIMATE UNCERTAINTY	47.075	SES-03-45840	EIS	373,300
EDUCATION PRODUCTION AND PEER NETWORKS AMONG OUT-OF-SCHOOL CHILDREN INDIA	47.075	SES-05-51333		16,634
ENHANCING THE METHODOLOGICAL REPERTOIRE OF HISTORICAL RESEARCH IN THE SOCIAL SCIENCES	47.075	SES-0818938		27,660
EXPERT ROUNDTABLE ON CRITICAL RESEARCH PRIORITIES IN SUSTAINABLE DEVELOPMENT	47.075	SES-07-50789		12,788
EXPORTS AND WAGE PREMIA	47.075	SES-07-21068		59,337
FAMILY AND SCHOOL INFLUENCES IN THE DETERMINATION OF CHILD OUTCOMES EVIDENCE FROM TWO SOURCES OF VARIATION	47.075	SES-0819776	SCO	129,846
FAMILY AND SCHOOL INFLUENCES IN THE DETERMINATION OF CHILD OUTCOMES EVIDENCE FROM TWO SOURCES OF VARIATION	47.075	SES 08-19776		92,269
FIRST DO NO HARM? THE EFFECTS OF TORT REFORM ON OUTCOMES AND PROCEDURES AT BIRTH	47.075	SES-06-17829		92,734
HSD: COLLABORATIVE RESEARCH: HUMAN-RELATED FACTORS AFFECTING EMERGING INFECTIOUS DISEASES	47.075	BCS-0826840		13,131
HSD: COLLABORATIVE RESEARCH: SELF-CONTROL IN THE LIFE COURSE	47.075	BCS-06-24262		23,916
ISERP	47.075	SES-03-45840	ONE	14,678
LABOR DEMAND, ORG. POWER, & STATUS PROCESSES: WHAT EXPLAINS COMPENSATION TRENDS IN EXECUTIVE OCCUPATIONS	47.075	SES-06-48138		82,427
LOCAL ACTORS AND US ANTI-TRAFFICKING POLICY - INTERPRETATION, MEDIATION AND IMPLEMENTATION	47.075	NSF SES-0617259		-5
MARKET DESIGN WITH FINANCIALLY CONSTRAINED AGENTS	47.075	SES-07-21053		95,777
MEASURING ETHNIC AND REGIONAL GROUP DIFFERENCES	47.075	SES-0818381		96,220
MULTILEVEL MEDIATION TECHNIQUES FOR FUNCTIONAL MAGNETIC RESONANCE IMAGING	47.075	BCS-06-31637		191,457
NETWORK DYNAMICS IN AN EMERGING DEMOCRACY	47.075	SES-06-16802		24,095
NETWORK DYNAMICS IN AN EMERGING DEMOCRACY	47.075	SES-06-16802	DCS	15,445
OFF CAMPUS	47.075	BCS-05-54747	OFF	19,362
OPTIMAL TAXATION OF ENTREPRENEURIAL CAPITAL AND FINANCIAL ASSETS WITH PRIVATE INFORMATION	47.075	SES-06-17774		17,708
POPULATION DYNAMICS IN REAL TIME TRUST DILEMMAS	47.075	SES-06-37151		8,745
POPULATION DYNAMICS IN REAL TIME TRUST DILEMMAS	47.075	SES-06-37151	PSC	3,103
RACE, POVERTY AND SPATIAL ACCESSIBILITY IN NEW YORK CITY	47.075	SES-07-20251	PRI	30,011
RATIONAL INATTENTION, RANDOM CHOICE, AND DYNAMICS OF PRICE ADJUSTMENT	47.075	SES-0820438		40,812
REGULATORY FIT AND VALVE TRANSFER	47.075	BCS-04-15583		86,108
SCIENTIFIC AUTHORITY AND PROPERTY IN THE US PATENT OFFICE 1836-1861	47.075	SES-07-26035		4,667
SEARCH, FIRMS, AND HUMAN CAPITAL: JOB LOSS, AND THE SHAPING OF YOUNG WORKERS' CAREERS	47.075	SES-04-53017		33,809
STRENGTHENING QUALITATIVE RESEARCH THROUGH METHODOLOGICAL INNOVATION & INTEGRATION: NETWORKS OF EXPERTISE	47.075	SES-07-19823		192,091
TEMPORAL DISCOUNTING OF SOCIAL GOALS	47.075	SES-0820496		31,166
THE QUANDARY OF ENVIRONMENTAL RESEARCH: A HISTORY OF LEAD, CHILDREN AND SCIENTIFIC INVESTIGATION 1970-2000	47.075	NSF SES-0750673		96,785
THE SPATIAL ALLOCATION OF SOCIAL PROVISIONS: GOVERNMENT CONTRACTING, MATERIAL RESOURCES, AND URBAN POVERTY	47.075	SES-06-48320		36,496
VISUAL SPATIAL INDUCTION AND MANUAL BEHAVIOR	47.075	BCS-06-16654		37,654
WORKSHOP FOR SCIENTISTS AND ENGINEERS ON HISTORIC SITE OF ANGKOR, CAMBODIA	47.075	OISE-04-56406		3,987

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Education and Human Resources				
COLLABORATIVE PROPOSAL FOR COLUMBIA, CORNELL, AND UCAR (NSF)	47.076	DUE-0227888		137,884
COLLABORATIVE RESEARCH: SYNTHESIS OF RESEARCH ON THINKING AND LEARNING IN THE GEOSCIENCES	47.076	DRL-07-22268	PR	39,466
COLLABORATIVE RESEARCH: SYNTHESIS OF RESEARCH ON THINKING AND LEARNING IN THE GEOSCIENCES	47.076	DRL-07-22268 PAR	PAR	28,294
COLLABORATIVE RESEARCH: USING MARGINS RESEARCH DATA RESOURCES IN THE CLASSROOM	47.076	DUE-0841066		12,229
COLLABORATIVE RESEARCH: USING MARGINS RESEARCH DATA RESOURCES IN THE CLASSROOM	47.076	DUE-0841066		2,480
COLUMBIA UNIVERSITY LEARNING FROM EARTH AND ECOLOGICAL FIELD STUDIES (LEEFs) GRADUATE FELLOWSHIP PRO	47.076	DGE-0742450		-125,880
GRADUATE RESEARCH FELLOWSHIP PROGRAM	47.076	DGE-07-07425		1,628,000
IGERT: A JOINT GRADUATE PROGRAM IN APPLIED MATHEMATICS AND THE EARTH AND ENVIRONMENTAL SCIENCES	47.076	DGE-02-21041	PR	515,888
IGERT: GLOBALIZATION AND INTERNATIONAL DEVELOPMENT	47.076	DGE-03-33418		430,295
IGERT: OPTICAL TECHNIQUES FOR ACTUATION, SENSING AND IMAGING OF BIOLOGICAL SYSTEMS	47.076	DGE-0801530		71,764
IGERT: OPTICAL TECHNIQUES FOR ACTUATION, SENSING AND IMAGING OF BIOLOGICAL SYSTEMS	47.076	DGE-0801530	PAR	20,393
NEW, GK-12 COLUMBIA UNIVERSITY LEARNING FROM EARTH AND ECOLOGICAL FIELD STUDIES (LEEFs) GRADUATE	47.076	DGE-0742450	PHY	12,197
NEW, GK-12 COLUMBIA UNIVERSITY LEARNING FROM EARTH AND ECOLOGICAL FIELD STUDIES (LEEFs) GRADUATE FELLOWSHIP PROGRAM	47.076	DGE-0742450	SC2	693,927
REFORMING UNDERGRADUATE EDUCATION IN ENVIRONMENTAL ENGINEERING: URBAN STUDIOS AS KNOWLEDGE DELIVERY	47.076	EEC-04-31946		171,007
TESTING THE EFFECTS OF THE INAUGURATION OF THE FIRST AFRICAN AMERICAN PRESIDENT ON THE AFFIRMATION PROCESS	47.076	ORL-0918075		31,436
VIDEO INTERACTION TEACHING AND LEARNING (VITAL): A LEARNING ENVIRONMENT FOR COURSES IN EARLY CHILDHOOD MATH	47.076	ESI-03-53402		385,984
YEAR 2: COLLABORATIVE RESEARCH: CONSTRUCTING MENTAL IMAGES OF GEOLOGIC STRUCTURES FROM FIELD OBSERVATIONS	47.076	REC-04-11823		67,130
YEAR 2: COLLABORATIVE RESEARCH: CONSTRUCTING MENTAL IMAGES OF GEOLOGIC STRUCTURES FROM FIELD OBSERVATIONS	47.076	REC-04-11823 PAR	PAR	1,775
Polar Programs				
BIO-PHYSICAL VARIABILITY IN REGIONS OF THE SOUTHERN OCEAN WITH CONTRASTING CLIMATIC RESPONSE	47.078	ANT-0836137		187,432
CAPE ADARE LONG-TERM MOORING (CALM)	47.078	ANT-05-38148		56,204
COLLAB PROPOSAL: CALCUALTION OF ANTARCTIC GRAVITY FIELD FROM GRACE SATELLITE DATA & COMPARISON	47.078	ANT-03-38278		81,222
COLLAB RES: BEST: NITROGEN SUPPLY FOR NEW PRODUCTION & ITS RELATION TO CLIMATIC CONDITIONS ON THE EASTERN BERING SEA	47.078	ARC-06-12427		296,480
COLLAB RSCH: ATTACHMENT/DETACHMENT OF ALGAE TO/FROM SEA ICE: MECHANISMS & CONSEQUENCES FOR BIOGENIC FLUXES	47.078	ARC-04-54726		3,177
COLLAB RSCH: DECIPHERING THE DEEP ICE & THE ICE WATER INTERFACE OVER LAKE VOSTOK USING EXISTING RADAR DATA	47.078	ANT-05-37752		16,320
COLLAB. RSCH: A MODULAR APPROACH TO BLDG AN ARCTIC OBSERVING SYSTEM FOR IPY AND BEYOND IN THE SWITCHYARD REGION	47.078	ARC-06-33878		165,530
COLLAB. RSCH: A MODULAR APPROACH TO BLDG AN ARCTIC OBSERVING SYSTEM FOR IPY AND BEYOND IN THE SWITCHYARD REGION	47.078	ARC-06-33878	ENG	19,929
COLLABORATIVE RESEARCH IN IPY: ABRUPT ENVIRONMENTAL CHANGE IN THE LARSEN ICE SHELF SYSTEM, A MULTI-DISCIPLINARY	47.078	ANT-07-32651		8,543
COLLABORATIVE RESEARCH: ANSLOPE ANALYSIS	47.078	ANT-04-40827		123,339
COLLABORATIVE RESEARCH: ANSLOPE ANALYSIS	47.078	ANT-04-40825		5,038
COLLABORATIVE RESEARCH: ANSLOPE ANALYSIS	47.078	ANT-04-40823		-107
COLLABORATIVE RESEARCH: ATMOSPHERE-OCEAN-ICE INTERACTION IN A COASTAL POLYNA	47.078	ANT-0739519		91,127
COLLABORATIVE RESEARCH: CIRCULATION IN THE FRESHWATER SWITCHYARD OF THE ARCTIC OCEAN	47.078	ARC-02-30238	CON	10,474
COLLABORATIVE RESEARCH: CIRCULATION IN THE FRESHWATER SWITCHYARD OF THE ARCTIC OCEAN	47.078	ARC-02-30238	PR	-18,886
COLLABORATIVE RESEARCH: HIGH-RESOLUTION STUDIES OF GLACIERS DYNAMICS AT TWO MAJOR OUTLET GLACIERS IN EAST GREENLAND	47.078	ARC-07-13970		58,001
COLLABORATIVE RESEARCH: IPY GAMBIT: GAMBURSTEV GAMBURSTEV AE REGEOPHYSICAL MAPPING	47.078	ANT-06-32292	OFF	75,034
COLLABORATIVE RESEARCH: IPY GAMBIT: GAMBURSTEV GAMBURSTEV AEROGEOPHYSICAL MAPPING	47.078	ANT-06-32292	CON	386,495

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COLLABORATIVE RESEARCH: IPY GAMBIT: GAMBURSTEV GAMBURSTEV AEROGEOPHYSICAL MAPPING	47.078	ANT-06-32292		371,401
COLLABORATIVE RESEARCH: MAGNETIC PROPERTIES OF GREENLAND AND ANTARCTIC ICE CORES	47.078	ARC-04-24931		23,882
COLLABORATIVE RESEARCH: NYC INTERNATIONAL POLAR WEEKEND 2008-2009	47.078	ARC-08-06509		39,148
COLLABORATIVE RESEARCH: PROCESSES DRIVING SPATIAL AND TEMPORAL VARIABILITY OF SURFACE PCO2 IN THE DRAKE PASSAGE	47.078	OPP-03-38248		5,220
COLLABORATIVE RESEARCH: SAMPLING THE OCEAN - SEA ICE INTERACTION IN THE PACIFIC CENTER OF THE ANTARTIC	47.078	ANT-0739509		268,364
COLLABORATIVE RESEARCH: SURFACE PCO2 AND THE EFFECTS OF WINTER TIME OVERTURNING IN THE DRAKE PASSAGE	47.078	ANT-0636879		127,607
CONTINUED DVLPT OF THE AMBS AS AN INTEGRATED ONLINE RESOURCE FOR MARINE & GEOPHYSICAL DATA FROM THE ANTARCTIC	47.078	ANT-0739330		170,398
CONTINUED GROWTH OF THE ANTARCTIC MULTIBEAM BATHYMETRY DATA SYNTHESIS AS A RESOURCE FOR ANTARCTIC	47.078	ANT-04-40655		19,702
DEVELOPMENT OF A POLAR MULTIDISCIPLINARY AIRBONE IMAGING SYSTEM FOR THE INTERNATIONAL POLAR YEAR 2007-2009	47.078	ANT-06-19457	EQU	278,901
DEVELOPMENT OF A POLAR MULTIDISCIPLINARY AIRBONE IMAGING SYSTEM FOR THE INTERNATIONAL POLAR YEAR 2007-2009	47.078	ANT-06-19457		406,172
ESTIMATING THE SALINITY OF SUBLACIAL LAKES FROM EXISTING AEROGEOPHYSICAL DATA	47.078	ANT-06-36584		11,127
IPY: SASSI MOORING ARRAY IN WESTERN ANTARCTIC PENINSULA	47.078	ANT-07-32656		193,424
OPAL BURIAL IN THE PACIFIC SECTOR OF THE SOUTHERN OCEAN: A TEST OF THE "SILICIC ACID LEAKAGE HYPOTHESIS"	47.078	ANT-02-30268		63,380
ROLE OF OCEAN HEAT IN CLIMATE CHANGE ON THE WESTERN ANTARCTIC PENINSULA	47.078	ANT-0636915		78,514
SGER: SCIENCE-OF-OPPORTUNITY ABOARD ICEBREAKER ODEN- OCEAN ATMOSPHERE-ICE-INTERACTIONS AND CHANGES	47.078	ANT-07-41510		7,032
SUBGLACIAL LAKES AND THE ONSET OF ICE STREAMING: RECOVERY LAKES	47.078	ANT-0636883		16,418
THE AMUNDSEN CONTINENTAL SHELF AND THE ANTARCTIC ICE SHEET	47.078	ANT-04-40775	GIS	15,285
THE AMUNDSEN CONTINENTAL SHELF AND THE ANTARCTIC ICE SHEET	47.078	ANT-04-40775		73,388
THE FATE OF THE ARCTIC (PERENNIAL) SEA ICE COVER: DECLINE AND RECOVER MECHANISMS	47.078	ARC-05-20496		66,140
TRACING GLACIAL-INTERGLACIAL CHANGES IN THE DUST SOURCE TO ANTARCTICA USING HELIUM ISOTOPES	47.078	ANT-06-36898		24,336
U.S./CHINESE SHIP OF OPPORTUNITY SAMPLING PROGRAM PHASE II	47.078	OPP-02-30284		96,964
WATER MASSES, CIRCULATION PATTERNS, AND VARIABILITY IN THE CENTRAL ARCTIC OCEAN: TRACER STUDEIS (TRITIUM-3, OXYGEN)	47.078	ARC-03-53646		118,637
International Science and Engineering (OISE)				
COLLABORATIVE PROPOSAL: INTERNATIONAL RESEARCH AND EDUCATION: WORKSHOPS IN STATISTICS	47.079	OISE-06-34596		2,296
DISTANCES IN ROBUST MODEL SELECTION	47.079	DMS-05-04957		55,295
US AFRICA WORKSHOP: BUILDING RESEARCH COLLABORATIONS ON NITROGEN CYCLING IN AFRICAN AGRO-ECOSYSTEMS	47.079	OISE 08-34250		48,193
Total Direct Award Programs: National Science Foundation				80,476,067
Pass-through Awards				
National Science Foundation				
	47.000	WHOI M212732		8,096
ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.	47.000	AURA #C10620A	NSF	15,645
BBN SYSTEMS AND TECHNOLOGIES	47.000	BBN CU08-9244	NSF	50,306
CALIFORNIA INSTITUTE OF TECHNOLOGY	47.000	CALTECH 7E-1085447	DMR0520457	318,756
CALIFORNIA INSTITUTE OF TECHNOLOGY	47.000	CALTECH 7E-1085447	DMR0520457	48,833
IOWA STATE UNIVERSITY	47.000	IOWA ISU404-2007	DMR-0520547	90,997
MHI CONSULTING LLC	47.000	MHI CU08-8986	IIP-0810423	80,911

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WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.000	WHOI C113743	NSF	-7,763
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.000	WHOI CU08-9397	NSF	31,925
Engineering Grants				
CARNEGIE-MELLON UNIVERSITY	47.041	CMU 1120484-180228	CCF-03-25344	71,246
JOHNS HOPKINS UNIVERSITY	47.041	JH 2000010426	EEC-9731748	13,449
MICHIGAN STATE UNIVERSITY	47.041	MSU 61-2525CU	CMM 1-07-00632	4,632
NATIONAL SCIENCE FOUNDATION	47.041	CMS-01-34333		12,569
NATIONAL SCIENCE FOUNDATION	47.041	CBET-06-39274	NSF CU02684701	24,104
NORTHWESTERN UNIVERSITY	47.041	NWU 0830350N8251357	CMS-04-04291	11,258
RENSSELAER POLYTECHNIC INSTITUTE	47.041	RPI A11739	CTS-06-08978	50,585
THE UNIVERSITY OF ARIZONA	47.041	UA CU08-8526	EEC-0812072	101,751
Mathematical and Physical Sciences				
	47.049	JOI T311A34		754
Joint Oceanographic Institutions	47.049	JOI J070015		-2
NATIONAL BUREAU OF ECONOMIC RESEARCH	47.049	NBER CU08-7851 SCO	SES-04-22403	15,442
NEW YORK UNIVERSITY	47.049	NYU F5848-07A 01	NSF CU02548001	-2
NEW YORK UNIVERSITY	47.049	NYU F6373-01 PAR	DMS-06-02235	173,834
NEW YORK UNIVERSITY	47.049	NYU F6373-01	DMS-06-02235	13,678
UNIVERSITY OF CHICAGO	47.049	UCHICA 35535-A A	PHY-07-07282	428,492
UNIVERSITY OF CHICAGO	47.049	UCHICA 35535-A	PHY-07-07282	7,203
UNIVERSITY OF CHICAGO	47.049	UCHICA 30193-B PR	AST-05-06648	86,328
UNIVERSITY OF CHICAGO	47.049	UCHICA 30193-B CON CON	AST-05-06648	83,037
UNIVERSITY OF ILLINOIS	47.049	UIL 2005-04253-01		13,728
UNIVERSITY OF MARYLAND	47.049	UMARY Z477901		148,944
UNIVERSITY OF WISCONSIN	47.049	UWIS #647F216	PHY-06-21704	93,758
Geosciences				
	47.050	JSC 2-94 J	OCE-93-08410	-2
	47.050	JOI #SA 8-06	OCE-0652315	32,426
	47.050	JSC 4-03 016 016	OCE-03-52500	161,092
	47.050	JSC 4-03 001	OCE-03-52500	-2
	47.050	JSC 4-03 006	OCE-03-52500	-2
	47.050	JSC 4-03 007	OCE-03-52500	-3
	47.050	JSC 4-03 005	OCE-03-52500	-2
	47.050	JSC 4-03 014	OCE-03-52500	89,981
	47.050	JSC 4-03 015	OCE-03-52500	1,322,718
	47.050	JSC 4-03 013	OCE-03-52500	534,708

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	47.050	JSC 4-03 025	OCE-03-52500	122,714
	47.050	JSC 4-03 024	OCE-03-52500	211,054
	47.050	JSC 4-03 022	OCE-03-52500	103,199
	47.050	JSC 4-03 023	OCE-03-52500	149,296
	47.050	JSC 4-03 019	OCE-03-52500	226,767
	47.050	JSC 4-03 020	OCE-03-52500	389,513
	47.050	JSC 4-03 018	OCE-03-52500	320,884
	47.050	JSC 4-03 021	OCE-03-52500	816,265
	47.050	JSC 4-03 017	OCE-03-52500	762,645
	47.050	JOI T306A34	NSF CU02628701	-478
	47.050	JSC 5-03 CMN	OCE-03-52500	369,549
	47.050	JSC 5-03 PR	OCE-03-52500	111,339
	47.050	JSC 5-03 DS	OCE-03-52500	3,257
HARVARD UNIVERSITY	47.050	HARVARD 256065-50082		131
INCORPORATED RESEARCH INSTITUTION FOR SEISMOLOGY	47.050	IRIS 11-DMS	EAR-05-52316	22,200
INCORPORATED RESEARCH INSTITUTION FOR SEISMOLOGY	47.050	IRIS 06-GSN	NSF-EAR-0552316	15,701
MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	47.050	MBARI PO#0611610	OCE-06-07273	14,342
OVERSEAS DRILLING LIMITED	47.050	ODL CU02731901	OCE-03-52500	115,543
SCRIPPS INSTITUTE OF OCEANOGRAPHY (UCSD)	47.050	UCSD PO 10222002	OCE-02-23864	95,082
UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	47.050	UCAR S07-61477	ATM-03-01213	127,682
UNIVERSITY OF NEW HAMPSHIRE	47.050	UNH 08-057 SCP	EEC-01-19825	16,793
UNIVERSITY OF NEW HAMPSHIRE	47.050	UNH 07-1011	EEC-01-19825	1,507
UNIVERSITY OF SOUTHERN CALIFORNIA	47.050	USC PO# 119511	EAR-05-29922	18,518
UNIVERSITY OF TEXAS, A & M RESEARCH FOUNDATON	47.050	TAMRF H000360		869
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI E110428	NSF	-6,997
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100597	OCE-0622825	29,291
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI #A100324	OCE-02-41354	152,674
WOODS HOLE OCEANOGRAPHIC INSTITUTION	47.050	WHOI A100627	OCE-0838923	30,584
Computer and Information Science and Engineering				
NATIONAL SCIENCE FOUNDATION	47.070	IIS-03-25399 A01	DHS CU02362503	55,064
NATIONAL SCIENCE FOUNDATION	47.070	IIS-03-25399 A02	DHS CU02362503	38,465
PRINCETON UNIVERSITY	47.070	PU #00000811	CCR-03-25463	13,616
UNIVERSITY OF PENNSYLVANIA	47.070	UPENN #5-43299-A	IIS-04-14409	18,507
VASSAR COLLEGE	47.070	VASSAR CU 08-7825	CNS-0708952	64,434
VASSAR COLLEGE	47.070	VASSARCU08-7825	CNS-0708952	4,000
Biological Sciences				
THE CARY INSTITUTE OF ECOSYSTEM STUDIES	47.074	IES #2957/200200731	DEB-05-16066	19,009
UNIVERSITY OF CALIFORNIA, SANTA BARBARA	47.074	UCSB KK9157	EF-0830117	61,747

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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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Social, Behavioral, and Economic Sciences				
CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION	47.075	CRDF #RUP1-2685-MO-0	INT-9531011	4,534
National Bureau of Economic Research	47.075	NBER2733990007971777		58,512
SMITHSONIAN INSTITUTION	47.075	SMTSON 03SUBC4400000	BCS-02-18511	43,434
UNIVERSITY OF MIAMI	47.075	UMIAMU CU02389901	NSF CU023899	1,841
Education and Human Resources				
AMERICAN ECONOMIC ASSOCIATION	47.076	AEA CU09-0159	NSF CU09-0159	38,908
AMERICAN EDUCATIONAL RESEARCH ASSOCIATION	47.076	AERA CU02701601	REC-0310268	18,219
BARNARD COLLEGE	47.076	BARNARD CU027638-01	NSF	72,387
IODP MANAGEMENT INTERNATIONAL, INC	47.076	IODP-MI-08-05	OCE-0432224	27,594
PURDUE UNIVERSITY	47.076	PURDUNIV #501-130301	DUE-02-31361	87,364
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	47.076	RFCUNY #404340001A	DGE-02-21589	171,762
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	47.076	RFCUNY 40485-0001C	DGE-03-33415	103,337
US MEDIA SERVICES	47.076	USMEDIACU02812401	NSF	2,256
CH2M HILL CONSTRUCTORS, INC	47.078	HILLCON 810553	Ant-0520837	376,841
MARINE BIOLOGICAL LABORATORY	47.078	MBL 35559	ANT-0823101	44,728
NORTHERN ILLINOIS UNIVERSITY	47.078	NIU 800080743	ANT-03-42484	66,285
UNIVERSITY OF WASHINGTON	47.078	UWASH 569959	ARC-0454955	14,946
WILLIAM AND MARY VIRGINIA INSTITUTE OF MARINE SCIENCES	47.078	WMVIMS #518603/1247	OPP-02-18282	355
Total Pass-through Programs: National Science Foundation				9,761,477
Total: National Science Foundation				90,237,544

National Aeronautics & Space Administration
Direct Awards

National Aeronautics & Space Administration

AN RXTE LEGACY: COMPLETING THE TIMING OF PSR J1846-0258 AND PASSING THE BATON TO GLAST	43.000	NNX08AJ32G	124
ARE HARD X-RAY SYMBIOTICS PROGENITORS OF TYPE IA SUPERNOVAE?	43.000	NNX08AG28G	23,332
DETECTING THE PULSAR POWERING THE TEV SOURCE HESS J1813-178	43.000	NNX08AJ45G	24,909
GRAVITATIONAL-WAVE ASTRONOMY WITH LISA: PROBING THE POPULATION OF DISTANT SUPERMASSIVE BLACK HOLES	43.000	NNX08AH35G	113,853
MIRNA PROFILING OF RADIATION RESPONSE	43.000	NNX07AT41G	280,716

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THE HIGH ENERGY ENVIRONMENT OF EXOPLANETS	43.000	NNX08AJ54G		32,340
Aerospace Education Services Program				
A FIRST LOOK AT THE NEW CLASS OF HARD X-RAY SYMBIOTIC BINARIES	43.001	NNX08AC37G		17,449
A PULSAR SEARCH OF AX J1838.0-0655: POWERING HESS J1837-069	43.001	NNX08AX66G		24,232
A STUDY OF LIQUID XENON DETECTORS WITH ENHANCED SPECTROSCOPY & TIME-OF-FLIGHT BACKGROUND REJECTION	43.001	NNG05WC31G	CON	21,174
A STUDY OF LIQUID XENON DETECTORS WITH ENHANCED SPECTROSCOPY& TIME-OF-FLIGHT BACKGROUND REJECTION	43.001	NNG05WC31G	PR	28,981
A SYMPOSIUM IN HONOR OF PROFESSOR ERIC J. HALL ENTITLED "FROM BEANS TO GENES: A FORTY YEAR ODYSSEY	43.001	NASA NNX08BA76G		10,080
A U.S. BASED FACILITY FOR METAL-MESH MILLIMETER AND SUBMILLIMETER WAVE FILTERS	43.001	NNG05GE46G	CON	21,487
A U.S. BASED FACILITY FOR METAL-MESH MILLIMETER AND SUBMILLIMETER WAVE FILTERS	43.001	NNG05GE46G	PR	25
A ZERO-REDSHIFT CLUSTER BASELINE	43.001	NNX06AI40G		519
ADDRESSING LARGE-SCALE DYNAMICS AND CLIMATE QUESTIONS USING TRMM DATA	43.001	NNX07AD21G		134,779
ANALYSIS OF ENSO DYNAMICS & THERMODYNAMICS IN THE WESTERN PACIFIC WARM POOL - AN APPLICATION OF MULTI-SENSOR SATELLITE	43.001	NNX09AF55G		972
AQUARIUS SCIENCE: SPATIAL & TEMPORAL VARIABILITY OF OBSERVEDSEA SURFACE SALINITY	43.001	NNX06AD57G		53,566
ATMOSPHERIC MODELING OF HOT JUPITERS	43.001	NNG06GF55G		26,454
AUGMENTED REALITY TECHNOLOGY FOR AIR TRAFFIC CONTROL CONCEPT EXPLORATION	43.001	NNX08AE26A		34,612
BIRDS OF A FEATHER: A STATISTICAL SEARCH FOR X-RAY PULSARS	43.001	NNG05GQ02G		-6,694
CARBON, CLIMATE, AND MANAGED LAND IN UKRAINE: INTEGRATING DATA AND MODELS OF LAND USE FOR NEESPI	43.001	NNG05GE85G		95,185
CHANGES IN STORM TRACK INTENSITY AND LOCATION AND THEIR IMPACTS IN A WARMER CLIMATE	43.001	NNX08AU80H		24,000
CLIMATE & CHEMISTRY CHANGES FROM 1975 TO 2000 AS OBSERVED & MODELED IN THE COUPLED CHEMISTRY-AEROSOL-CLIMATE	43.001	NNX09AK32G		30,766
CLOUDS	43.001	NNX07AP74A	DEL	238,284
COMPARATIVE MULTI-HAZARD RISK MAPPING FOR CENTRAL AMERICA AND THE CARIBBEAN	43.001	NNG05GN31H		1,808
CONNECTING THE EPHEMERIS OF THE GEMINGA PULSAR TO GLAST	43.001	NNX07AU65G		6,804
CONNECTING THE EPHEMERIS OF THE GEMINGA PULSAR TO GLAST	43.001	NNX08AX69G		337
CONTINUED OPERATION OF THE EARTH OBSERVING SYSTEM DATA & INFORMATION SYSTEM (EODIS) SOCIOECONOMIC DATA	43.001	NAS5-03117	01	11,772
CONTINUED OPERATION OF THE EARTH OBSERVING SYSTEM DATA AND INFORMATION SYSTEM (EODIS) SOCIOECONOMIC	43.001	NAS5-03117		285,570
CONTINUED OPERATION OF THE EARTH OBSERVING SYSTEM DATA AND INFORMATION SYSTEM (EOSDIS) SOCIOECONOMIC DATA	43.001	NNG08HZ11C		3,495,428
DETECTING THE PULSAR POWERING THE TEV SOURCE HESS J1813-178	43.001	NNX08AX67G		33,114
DEVELOPMENT OF SATELLITE PRIMARY PRODUCTIVITY ALGORITHM FOR COASTAL WATER	43.001	NNG05GR17G		18,633
DVLPT & FLIGHT OF A NOVEL ANTIMATTER DETECTOR FOR IN- DIRECT DARK MATTER SEARCHES & LOW ENERGY COSMIC-RAY PHYSICS	43.001	NNG06WC06G CON	CON	29,606
DVLPT & FLIGHT OF A NOVEL ANTIMATTER DETECTOR FOR IN- DIRECT DARK MATTER SEARCHES & LOW ENERGY COSMIC-RAY PHYSICS	43.001	NNG06WC06G	PR	10,736
DVLPT OF AEROSOL MICROPHYSICS, RADIATIVE AND CLOUD MICROPHYSICS SCHEMES/GODDARD INST FOR SPACE STUDY:CLIMATE MODEL	43.001	NNG06GE94G		33,156
EARLY DIFFERENTIATION OF THE MOON: EXPERIMENTAL AND MODELINGSTUDIES	43.001	NNG06GF93G		163,540
EARTH SYSTEM SCIENCE FELLOWSHIP PROGRAM: THE IMPACT OF SNOWDEPTH ANOMALIES ON CLIMATE	43.001	NNG05GP52H		-387
ERROR AND VARIABILITY IN SATELLITE SST DATA AND GLOBAL HIGH-RESOLUTION ANALYSES	43.001	NNX09AF44G		3,170
EXPLORING THE RELATIONSHIP BETWEEN LYMAN ALPHA EMITTERS AND LYMAN BREAK GALAXIES USING LOCAL ANALOGS	43.001	NNX08AU66G		53,762
FIREBALL: FAINT INTERGALACTIC MEDIUM REDSHIFTED EMISSION BALLOON (CO-I INSTITUTION PROPOSAL)	43.001	NNX08A070G	GRA	105,956
FIREBALL: FAINT INTERGALACTIC MEDIUM REDSHIFTED EMISSION BALOON (CO-I INSTITUTION PROPOSAL)	43.001	NNX08A070G		49,566
FIREBALL: FAINT INTERGALACTIC-MEDIUM REDSHIFTED EMISSION BALLOON	43.001	NNG05WC23G	PR	6,681
FUNCTIONAL ROLE OF BETAIG-H3 GENE IN HIGH ENERGY HEAVY IONS INDUCED CARCINOGENESIS	43.001	NAG 2-1637		10,898

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The Trustees of Columbia University in the City of New York

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FURTHER ECLIPSE MAPPING OF SYMBIOTIC BINARIES-CO-I PROPOSAL	43.001	NNX07AT90G		11,024
GLORY MISSION	43.001	NNX07AP74A	CAI	726,062
GREEN BANK TELESCOPE TIMING OF KEY GLAST PULSARS	43.001	NNX08AV75G		14,285
GSRP: EXTRAORDINATRY VIEWS OF ORDINARY GALAXIES: MULTI-WAVELENGTH MEASURES OF STAR FORMATION	43.001	NNG05GO43H		-1,771
HUMAN ENDOTHELIAL CELLS IN 2-D AND 3-D SYSTEMS NON-CANCER EFFECTS AND SPACE-RELATED RADIATIONS	43.001	NASA CU08-5683		268,578
HZE-INDUCED MAMMARY CANCER DEVELOPMENT PROCESSES IN MURINE	43.001	NNX09AE95G		2,065
INDIVIDUAL GENETIC SUSCEPTIBILITY	43.001	NAG 9-1519		155,680
INTERANNUAL VARIABILITY OF SURFACE RADIATION BUDGET AND CLIMATE FEEDBACK	43.001	NNG06GC66G		111,207
INTERDISCIPLINARY GLOBAL CHANGE RESEARCH	43.001	NNX08AJ75A		1,433,179
INTERDISCIPLINARY RESEARCH ON CLIMATE VARIABILITY AND THE CLIMATE CHANGE	43.001	NNX07AT05A		2,022,965
INVESTIGATING LARGE-SCALE TROPICAL ATMOSPHERIC DYNAMICS USING TRMM DATA	43.001	NNG04GA73G		-8,723
INVESTIGATION OF HIGH RESOLUTION, HIGH THROUGHPUT, THERMALLY FORMED X-RAY & GAMMA-SUPPORT OPTICS IN SUPPORT OF CURRENT	43.001	NNG06WC14G	PR	46,928
LAND USE, STREAM CONNECTIVITY, AND THE HEALTH OF FRESHWATER	43.001	NNX08AX08H		27,256
LINKAGES BETWEEN NORTH AMERICAN CLIMATE, ATMOSPHERIC WAVES DYNAMICS AND LAND SURFACE BOUNDARIES	43.001	NNX06AG28H		24,867
LOW TEMPERATUE DIELECTRON RECOMBINATION RATE COEFFICIENTS FOR PHOTOIONIZED COSMIC PLASMAS	43.001	NNG06WC11G		99,895
LUNAR TRANSIENTS: A POWERFUL PROBE OF THE RESOURCES AND INTERIOR OF THE MOON	43.001	NNX08AO49G		74,999
MAPPING DISSOLVED ORGANIC CARBON IN EASTERN U.S. COASTAL WATERS USING OCEAN COLOR SATELLITE	43.001	NNG05GA90G		143,978
MEASUREMENTS OF DIELETRONIC RECOMBINATION AND ELECTRON IMPACT IONIZATION	43.001	NNX09AB25G		23,651
MEASURING THE MAGNETIC FIELDS OF CENTRAL COMPACT OBJECTIVES IN SUPERNOVA REMNANTS	43.001	NNX08AX71G		31,656
MECHANISM OF GRB AFTERGLOW EMISSION	43.001	NNX08AN92G		46,997
MECHANISMS OF OCULAR CATARACTSS	43.001	NASA NNJ05H138G		274,512
MESOSCALE ANALYSIS OF WEST AFRICA AND EASTERN ATLANTIC STORM STRUCTURES FROM 3-D CLIMATE MODEL	43.001	NNX07AI93G		65,401
METAL ENRICHMENT IN GROUPS OF GALAXIES	43.001	NNX08AX65G		25,186
MODELING AND OBSERVATIONS OF ATMOSPHERIC CIRCULATION AND CLOUD PROCESSES	43.001	NNX08AF15A		594,779
MODELING AND OBSERVATIONS OF ATMOSPHERIC CIRCULATION AND CLOUD PROCESSES	43.001	NNX08AF15A		14,119
MODELING GRAVITY FIELD AND EARTH DEFORMATION FROM MONSOONAL FLOODING IN BANGLADESH	43.001	NNX08AF13G		127,396
MODELING OF OCEAN CIRCULATION & ATMOSPHERIC CHEMICAL SYSTEMS	43.001	NNX07AP74A		124,565
MODELING THE EXTREME ATMOSPHERES OF HOT JUPITERS: PROBING NEW REGIMES OF CIRCULATION	43.001	NNX08AT35H		32,154
MOIST PHYSICS DEVELOPMENT FOR GEOS-5 USING SINGLE COLUMN MODELS WITH PARAMETERIZED DYNAMICS	43.001	NNX06AB48G		42,421
MONITORING BABY-LISTENING IN ON THE YOUNGEST KNOWN PULSAR (XTEA011)	43.001	NNX06AG46G		-3,295
NEW INSIGHT FROM OLD IMAGES: REANALYSIS OF LUNAR ORBITER PHOTOGRAPHS	43.001	NNX08AY99G		21,097
NONTHERMAL CORONA OF MAGNETARS	43.001	NNG06GI07G		55,430
NON-THERMAL HARD X-RAYS AND FLUORESCENCT FE IN STELLAR FLARES	43.001	NNX07AG61G		6,333
NRA/RESEARCH OPPORTUNITIES IN SPACE AND EARTH SCIENCES-2007	43.001	NNX09AF74G		2,401
OCEANS AND ICE: THE ANTARCTIC SALINITY ANOMALY	43.001	NNG05GN99G		109,741
OF NASA'S SUN-EARTH	43.001	NNG06GD28G		135,775
OUTBURSTS IN CLASSICAL SYMBIOTIC BINARIES	43.001	NNX08AJ25G		14,926
PALEO ASTRONOMY: THE FORMATION AND EVOLUTION OF FOSSIL GROUPS	43.001	NNX07AV07G		33,435
PHASE EQUILIBRIUM IN THE LOW-TEMPERATURE PORTION OF THE CO2-H2O SYSTEM WITH APPLICATION OF MARTIAN VOLATILE HISTORY	43.001	NNG05GL91G		60,575
PHYTOPLANKTON ABSORPTION AND CARBON DIOXIDE DRAWDOWN IN THE SOUTHERN OCEAN A CONSORTIUM OF OBSERVATIONS	43.001	NNX07AV24G		37,676

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PLANETARY HABITABILITY AND THE SEARCH FOR LIFE: AN...	43.001	NNG05GO79G	SUP	12,801
RETRIEVAL OF H2O, HDO AND COVNECTIVE TRACERS FROM ACE: VALIDATION AND SYNERGISTIC SCIENCE IN COLLABORATION WITH AURA	43.001	NNX06AB01G		96,817
RETRIEVAL OF H2O, HDO AND COVNECTIVE TRACERS FROM ACE: VALIDATION AND SYNERGISTIC SCIENCE IN COLLABORATION WITH AURA	43.001	NNG06AB01G		14,584
SCIENCE AND CALIBRATION SUPPORT FOR THE REFLECTION GRATING SPECTROMETER ON THE XMM-NEWTON OBSERVATORY	43.001	NNX07AN59G		44,396
SCIENTIFIC INVESTIGATION OF THE EARTH OBSERVATION SYSTEM ACTIVE CAVITY RADIOMETER IRRADIANCE MONITOR	43.001	NNG04HZ42C		-5,649
SOLAR RADIATION	43.001	NNX07AP74A	CAR	561,856
STAR FORMATION DISTRUBITION IN FIELD ELLIPITCALS	43.001	NNX07AJ55G		4,232
SUPERACTIVE-ACTIVE PASSIVE (SAP) SHIPBORNE/AIRBORNE/SAT. ANALYSIS OF PHOTOPLANKTON PIGMENT, GROUP, AND PHISOLOGICAL	43.001	NNX07AN44G		177,472
THE DEVELOPMENT OF AN ATTITUDE CONTROL SYSTEM FOR A LONG DURATION BALLOON-BORNE CMB POLARIZATION EXPERIEMENT	43.001	NNX07AP36H		26,133
THE EARLIEST ASTROPHYSICAL STRUCTURES AND THE REIONIZATION OF THE UNIVERSE	43.001	NNG04GI88G		5
THE FORMATION AND EVOLUTION OF TIDALLY HEATED HABITABLE ZONES	43.001	NNG05GO79G		89,147
THE GENERAL ANTIPARTICLE SPECTROMETER (GAPS): A SEARCH FOR ANTIDEUTERONS GENERATED IN DARK MATTER	43.001	NNX08AK39G		15,515
THE GENERAL ANTIPARTICLE SPECTROMETER: A SEARCH FOR ANTIDEUTERONS GENERATED IN DARK MATTER ANNIHILATION	43.001	NNX08AK39G	SC1	36,902
THE NATURE OF THE WHITE DWARFS IN HARD X-RAY SYMBIOTICS	43.001	NNX07AT88G		27,212
THE RESPONSE OF A TROPICAL THERMOCLINE TO A WARMING CLIMATE AND ITS POTENTIAL IMPACTS ON ENSO	43.001	NNX06AF76H		6,762
THE SURFACE-BULK PARTITIONING OF AERSOL ORGANIC MATERIAL	43.001	NNX09AF26G		21,553
TIMING THE NEWLY DISCOVERED PULSAR AT THE CENTER OF SUPERNOVA REMNANT KES 79	43.001	NNX06AH95G		-6,495
UV IMAGING OF GALAXY CLUSTERS AT Z=0.2, ABELL 963 AND 2192	43.001	NNX08AK59G		11,920
VARIED WATERS & DUSTY SKIES III: THE USE OF SATELLITE OCEAN COLOR DATA PRODUCTS TO STUDY THE EASTERN TROPICAL ATLANTIC	43.001	NNG05GR37G		182,511
XMM-NEWTON SPECTRAL ENERGY DISTUBUTION OF A NEW CANADIDATE ISOLATED NEUTRON STAR	43.001	NNX07AQ59G		24,163
X-RAY MONITORING OF TRANSIENT RADIO-EMITTING AXPS	43.001	NNX08AN91G		59,685
Total Direct Award Programs: National Aeronautics & Space Administration				13,982,222

Pass-through Awards

National Aeronautics & Space Administration

	43.000	HST-GO-11647		NAS5-26555	3,280
	43.000	STSCI HST-GO-11173		NAS5-26555	1,313
	43.000	STSCI HST-GO-11171		NAS5-26555	36,042
	43.000	STSCI HSTGO1117201-A		NAS5-26555	6,542
	43.000	STSCI HSTGO-1012812A			3,892
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.000	CALTECH 44A-1084757	SCP	NNX08AD09G	-4,812
KALSCOTT ENGINEERING	43.000	N18P-02-09-001			14,461
REGENTS OF THE UNIVERSITY OF MINNESOTA	43.000	UMINN X5336524101	PR	NNG05GE62G	50,441
REGENTS OF THE UNIVERSITY OF MINNESOTA	43.000	UMINN X5336524101	CON	NNG05GE62G	-52,327
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	43.000	RFCUNY 49663-00-01 A		NASA	42,103
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	43.000	RFCUNY 49662-00-01 A		NASA	112,275
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	43.000	RFCUNY 49661-00-01 D		NNX07A090G	62,112
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.000	SAO GO6-7026A		NAS8-03060	2,522

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SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.000	SAO G08-9060X	NAS8-03060	1,178
Aerospace Education Services Program				
	43.001	STSCIHST-GO-10867-03		7,456
AMERICAN MUSEUM OF NATURAL HISTORY	43.001	AMNH #1-2007	NNX07AI74G	27,569
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH 44A-1085100 FAC	NNG08FD60C	40,355
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH 44A-1085100 CAL	NNG08FD60C	4,916
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH #44G-1064646 PR	NAS5-98034	157,047
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH #44G-1064646 SUP	NAS5-98034	50,335
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH 44A-1085100 CON	NNG08FD60C	1,759,294
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH 44A-1085100	NNG08FD60C	242,737
CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	CALTECH 44A-1082967 AAA		-7,920
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT #1265788	NASA CU02425801	245,301
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1321776	NM0710076	9,617
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1366188	NM0710076	7,613
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1203235 NIC	NAS 7-1260	87,318
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1203235 ON	NAS 7-1260	0
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1356207	NM0710843	26,273
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT 1277146	NM0710076	-1,442
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT #1287661	NM0710076	4,141
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT #1287665		20,512
JET PROPULSION LAB, CALIFORNIA INSTITUTE OF TECHNOLOGY	43.001	JPLCIT #1362354	NM0710769	24,505
MICHIGAN STATE UNIVERSITY	43.001	MSU 61-2743CU	NNE066D96A	8,969
REGENTS OF THE UNIVERSITY OF MINNESOTA	43.001	UMINN X5336565101 SC1	NNX08AG40G	176,941
REGENTS OF THE UNIVERSITY OF MINNESOTA	43.001	UMINN X5336565101	NNX08AG40G	94,824
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G09-0086A	NAS8-03060	13,641
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO7-8035X	NAS8-03060	20,807
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO6-7054X	NASA N/A	13,597
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO6-7048X	NAS8-03060	1,591
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO6-7044X	NAS8-03060	-5,343
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	G08-9074X	NAS8-03060	39,794
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO6-7052X	NASA N/A	2,124
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G05-6012X	NAS8-03060	-975
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO AR7-8004X		44,943
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO G07-8138A	NAS8-03060	8,925
SMITHSONIAN ASTROPHYSICAL OBSERVATORY	43.001	SAO GO7-8030X	NAS8-03060	1,835
STANFORD UNIVERSITY	43.001	SU SPO# 31051-B	NNGO4GL76G	-490
UNIVERSITY OF ALABAMA, TUSCALOOSA, AL	43.001	UAT 06-059	NNG06GB23G	43,492
UNIVERSITY OF CALIFORNIA, IRVINE	43.001	UCI #2008-1969	NNX08AF64G	4,962
UNIVERSITY OF VIRGINIA	43.001	UV GG10308126982	NM0710776	-514

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
WATER CENTER FOR HUMID TROPICS OF LATIN AMERICA AND CARIBBEAN	43.001	CATHALAC CU09-1341	NNM07AB02C-CS-001/2004	24,787
Total Pass-through Programs: National Aeronautics & Space Administration				3,478,559
Total: National Aeronautics & Space Administration				17,460,781

Department of Energy

Direct Awards

Department of Energy

MECHANISTIC AND QUANTITATIVE STUDIES OF BYSTANDER RESPONSES IN 3-D TISSUES FOR LOW-DOSE RADIATIONS R	81.000	DOE DE-FG02-07ER6433		255,569
Used Energy-Related Laboratory Equipment Grants				
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.022	DE-FG02-86ER40281	CON	23,331
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.022	DE-FG02-86ER40281	OFF	718,091
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.022	DE-FG02-86ER40281	ON	39,430
HIGH TRANSVERSE MOMENTUM PROBES OF ULTRA-DENSE MATTER CREATED IN HEAVY ION COLLISIONS	81.022	DE-FG02-86ER40281	TRA	4,260
Office of Science Financial Assistance Program				
A VALIDATED HIGH-LET RADIATION SPECIFIC BIOMARKER IN THE MAYAK WORKER COHORT	81.049	DE-FC01-06EH0601		186,929
ALGORITHMS FOR MATHEMATICAL PROGRAMMING WITH EMPHASIS ON BI-LEVEL MODELS	81.049	DE-FG02-08ER25856		79,523
BASIC PHYSICS OF TOKAMAK TRANSPORT AND ITS CONTROL	81.049	DE FG02-98ER54464		300,572
CARBON NANOTUBES AND METAL-ORGANIC JUNCTIONS	81.049	DE FG02-98ER14861		249,264
CATALYTIC APPLICATIONS OF H TRANSFER FROM TRANSITION-METAL HYDRIDE COMPLEXES	81.049	DE-FG02-97ER14807		143,533
CATALYTIC GROWTH OF MOLECULAR-SCALE WIRING	81.049	DE-FG02-01ER15264		205,775
CELLULAR RESPONSE TO LOW DOSE RADIATION--ROLE OF PHOSPHATIDYLINOSITOL - 3 KINASE LIKE LINASE (PIKK)	81.049	DE-FG02-05ER64055		168,046
CENTER FOR GYROKINETIC PARTICLE STIMULATION OF TURBULENT TRANSPORT IN BURNING PLASMAS	81.049	DE-FC02-08ER54962		37,958
CENTER FOR PLASMA EDGE SIMULATION	81.049	DE-FC02-06ER54862		55,429
CENTER FOR PLASMA EDGE SIMULATION	81.049	DE-FC02-06ER54862	OFF	48,354
CENTER FOR SIMULATION OF WAVE INTERACTIONS WITH MAGNETOHYDRODYNAMICSATION	81.049	DE-FC02-06ER54863		34,463
CONTROLLING STRUCT., ELECTRONIC & ENERGY FLOW DYNAMICS OF CATALYTIC PROCESSES THROUGH TAILORED NANOSTRUCTURES	81.049	DE-FG02-03ER15463	PR	355,809
CONTROLLING STRUCTURAL, ELECTRONIC & ENERGY FLOW DYNAMICS OF CATALYTIC PROCESSES THROUGH TAILORED NANOSTRUCTURES	81.049	DE-FG02-03ER15463	SO	46,968
ELECTRIC TRANSPORT IN NOVEL 2-DIMENSIONAL NANOSCALE SYSTEMS	81.049	DE-FG02-05ER46215		-7,340
ELECTRONICS FROM NANO-SCALE CRYSTALS	81.049	DE-FG02-04ER46118	PR	187,061
ELECTRONICS FROM NANO-SCALE CRYSTALS	81.049	DE-FG02-04ER46118	OFF	111,305
EXPERIMENTAL RESEARCH ON A LASER CYCLOTRON AUTORESONANCE ACCELERATOR	81.049	DE FG02-91ER40669	A04	4,893
EXPERIMENTAL RESEARCH ON A LASER CYCLOTRON AUTORESONANCE ACCELERATOR	81.049	DE FG02-91ER40669	A01	490

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FUNDAMENTAL STUDIES OF METAL CENTERED TRANSFORMATIONS RELEVANT TO CATALYSIS	81.049	DE-FG02-93ER14339		136,416
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222	A07	344,951
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222	A3	292,589
HIGH BETA TOKAMAK RESEARCH	81.049	DE-FG02-86ER53222	A08	181,975
INDIVIDUAL GENETIC SUSCEPTIBILITY	81.049	DE-FG02-03ER63629	SC1	42,851
INDIVIDUAL GENETIC SUSCEPTIBILITY	81.049	DE-FG02-03ER63629		1,590
INVESTIGATION OF THE QUANTUM LIMIT TRANSPORT PHENOMENA IN GRAPHENE	81.049	DE-FG02-05ER46215	A00	165,653
INVESTIGATION OF THE QUANTUM LIMIT TRANSPORTATION PHENOMENA IN GRAPHENE	81.049	DE-FG02-05ER46215		0
LASER DYNAMIC STUDIES OF PHOTOREACTIONS OF SINGLE-CRYSTAL AND NANOSTRUCTURED SURFACES	81.049	DE-FG02-90ER14104		99,636
LASER DYNAMIC STUDIES OF PHOTOREACTIONS OF SINGLE-CRYSTAL AND NANOSTRUCTURED SURFACES	81.049	DE-FG02-90ER14104	OFF	26,364
LEVIATED DIPOLE EXPERIMENT - ON CAMPUS	81.049	DE-FG02-98ER54459	A03	54,909
LEVITATED DIPOLE EXPERIMENT	81.049	DE-FG02-98ER54459	A01	130
LEVITATED DIPOLE EXPERIMENT - OFF CAMPUS	81.049	DE-FG02-98ER54459	A04	379,943
MAGNETO HYDRODYNAM STABILITY ACTIVE MODE CONTROL- OFF CAMPUS THE NATIONAL SPHERICAL TORUS EXPERIMENT	81.049	DE-FG02-99ER54524	A04	348,709
MAGNETO HYDRODYNAMIC STABILITY AND ACTIVE MODE CONTROL IN THE NATIONAL SPHERICAL TORUS EXPERIMENT	81.049	DE-FG02-99ER54524	A0 A05	91,565
MAGNETOHYDRODYNAMICS MODE CONTROL RESEARCH IN DIII-D	81.049	DE-FG02-04ER54761		191,730
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157	MIL	88,735
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157	PR	83,869
MAPPING THE ELECTRON RESPONSE OF NANOMATERIALS	81.049	DE-FG02-04ER46157	OF2	81,239
MINERAL-SURFACTANT INTERACTIONS FOR MINIMUM REAGENTS PRECIPITATION AND ADSORPTION FOR IMPROVED OIL RECOVERY	81.049	DE-FC26-03NT15413		-37,642
MONTE CARLO AND DETERMINISTIC 3D RADIATIVE TRANSFER WORKING TOGETHER FOR ENHANCED DETECTION	81.049	DE-FG52-08NA28779		18,666
NONLINEAR DYNAMICS OF STRONG INTERCHANGE INSTABILITIES IN A ROTATING DIPOLE-CONFINED PLASMA	81.049	DE-FG02-00ER54585	A0 A01	863
NONLINEAR DYNAMICS OF STRONG INTERCHANGE INSTABILITIES IN A ROTATING DIPOLE-CONFINED PLASMA	81.049	DE-FG02-00ER54585	A01	-46,501
NONLINEAR DYNAMICS OF STRONG INTERCHANGE INSTABILITIES IN A ROTATING DIPOLE-CONFIRMED PLASMA	81.049	DE-FG02-00ER54585	SCO	198,119
PHOTOCHEMISTRY AT INTERFACES	81.049	DE-FG02-91ER14226		66,345
REGIONAL CLIMATE-CHANGE PROJECTIONS THROUGH NEXT-GENERATION EMPIRICAL AND DYNAMICAL MODELS	81.049	DE-FG02-02ER63413		74,514
SCANNING TUNNELING MICROSCOPY STUDIES OF THE STRUCTURE AND CHEMISTRY OF POLYCYCLIC AROMATIC HYDROCARBONS	81.049	DE-FG02-88ER13937	F	129,644
STELLARATORY THEORY	81.049	DE-FG02-95ER54333	A04	53,801
STELLARATORY THEORY	81.049	DE-FG02-95ER54333	A05	6,249
STELLARATORY THEORY DESIGN	81.049	DE-FG02-95ER54333	A03	437
THE ADAPTIVE RESPONSE, GENETIC HAPLO-INSUFFICIENCY AND GENOMIC INSTABILITY	81.049	DE-FG02-05ER64054		149,269
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699	C	234,471
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699	B	169,176
THEORETICAL HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699	F	133,818
THEORETICAL HIGH ENERGY PHYSICS HIGH ENERGY PHYSICS	81.049	DE-FG02-92ER40699	PR	1,381,518
THEORETICAL STUDIES OF PHOTOACTIVE MOLECULAR SYSTEMS: ELECTRON TRANSFER, ENERGY TRANSPORT, & OPT. SPECTROSCOPY	81.049	DE-FG02-90ER14162		136,619
THEORY OF SURFACE AND INTERFACE PHYSICS OF CORRELATED ELECTRON MATERIALS	81.049	DE-FG02-04ER46169		155,360
THEORY OF ULTRA-DENSE MATTER & THE DYNAMICS OF HIGH ENERGY INTERACTIONS INVOLVING NUCLEI	81.049	DE-FG02-93ER40764	PR	191,066
THEORY OF ULTRA-DENSE MATTER & THE DYNAMICS OF HIGH ENERGY INTERACTIONS INVOLVING NUCLEI	81.049	DE-FG02-93ER40764	OFF	47,739
TOWARDS OPTIMAL PETASCALE SIMULATIONS	81.049	DE-FC02-06ER25783		276,018

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USE OF NANO-ISLANDS (WITH DOPING AND CO-DOPANT) FOR IMPROVING DOPING IN WIDE BANDGAP SEMICONDUCTORS	81.049	DE-FG02-05ER46219		46,722
USE OF NANO-ISLANDS (WITH DOPING AND CO-DOPANT) FOR IMPROVING DOPING IN WIDE BANDGAP SEMICONDUCTORS	81.049	DE-FG02-05ER46219	A02	24,772
LOW DOSE RADIATION CATARACT	81.409	DOE DE-FG02-07ER6433		170,532
ROLE OF FOLDING THERMODYNAMICS ON THE ABSORPTION OF MODEL PROTEINS	81.502	DE-FG02-07ER46429		147,511
Total Direct Award Programs: Department of Energy				9,591,653
Pass-through Awards				
Department of Energy				
ARGONNE NATIONAL LABS	81.000	ARGNTL #9F-30002	DE-ACOR-06CH11357	78,052
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL CU08-9027	DE-AC02-98CH10886	104,040
BROOKHAVEN NATIONAL LABORATORY	81.000	BNL CU08-9027	DE-AC02-98CH10886	51,048
LAWRENCE BERKELEY NATIONAL LABORATORY	81.000	LBNL NO.6878398	DE-AC02-05CH11231	32,134
PACIFIC NORTHWEST NATIONAL LABORATORY	81.000	PNNL CU09-0935	DOE	3,012
RENSSELAER POLYTECHNIC INSTITUTE	81.000	RPI A11654	DE-GG02-05FR46258	60,742
Office of Science Financial Assistance Program				
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 140169	DE-AC02-98CH10886	27,958
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL #122920	DE-AC02-98CH10886	121,399
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 135079	SC1 DE-AC02-98CH10886	46,527
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 135079	DE-AC02-98CH10886	7,811
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL CU09-1814	DE-AC02-98CH10886	79,756
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL 140121	DE-AC02-98CH10886	147,955
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL #89592	DE-AC02-98CH10886	71,098
Department of Energy	81.049	DE-FG02-03ER54696	OFF	44,680
HARVARD UNIVERSITY	81.049	HARVARD #130654-01	EI DE-FG26-04NT42123	-4
LAWRENCE BERKELEY NATIONAL LABORATORY	81.049	LBNL #6801368-01	DE-AC02-05CH11231	96,696
LAWRENCE LIVERMORE NATIONAL LABORATORY	81.049	LLNL B571059	DE-AC52-07NA27344	50,003
LAWRENCE LIVERMORE NATIONAL LABORATORY	81.049	LLNL B579196		58,194
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170	A02 DOE #DE-FG02-05ER15730	74,866
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170	A03 DOE #DE-FG02-05ER15730	52,160
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170	A01 DOE #DE-FG02-05ER15730	37,128
TUFTS UNIVERSITY COLLEGE OF ARTS AND SCIENCES	81.049	TUFTS #DOE170 A04	A04 DOE #DE-FG02-05ER15730	28,779

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Fossil Energy Research and Development				
MONTANA STATE UNIVERSITY	81.089	MONTANA G140-06W0831	DE-FC26-05NT42587	-2,382
UNIVERSITY OF CALIFORNIA, SAN DIEGO	81.089	UCSD 10296230		27,166
Office of Environmental Waste Processing				
UNIVERSITY OF CALIFORNIA, DAVIS	81.104	UCD W/GEC 03-019	DE FC02-03ER63613	-3,012
Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Analysis/Assistance				
RESEARCH AND DEVELOPMENT SOLUTIONS, LLC	81.117	RDS 41817M4046	DE-AC26-04NT41817.320.01.06.005	74,309
Nuclear Energy Research, Development and Demonstration				
IDAHO NATIONAL ENVIRONMENT AND ENGINEERING LABORATORY	81.121	INEEL 00059351	DE-AC07-05ID14517	57
RENSSELAER POLYTECHNIC INSTITUTE	81.121	RPI A11896	DE-FG07-07ID14889	111,261
CHEVRON U.S.A., INCORPORATED	81.502	CHVRON SO #4544165	DE-PS26-01NT40869	39,286
NATIONAL LABORATORY FOR HIGH ENERGY PHYSICS, JAPAN	81.502	KEK CU08-9456	DOE	20,000
Total Pass-through Programs: Department of Energy				1,540,719
Total: Department of Energy				11,132,372

Department of Defense
Direct Awards

Department of the Army

Aquatic Plant Control				
FUNDAMENTALS OF MUC DETECTION IN GROUNDWATER	12.100	DA ACOEW912HZ06C0034		-1,591
Military Medical Research and Development				
BRAIN-CHDHERIN IN HUMAN BREAST CARCINOMA	12.420	W81XWH-07-1-0401		85,107
CHEMOPREVENTION OF PROSTATE CANCER IN MUTANT MICE: TARGETING THE ANDROGEN RECEPTOR SIGNALING PATHWAY	12.420	W81XWH-06-1-0035		207,645
COLUMBIA UNIVERSITY SPINAL MUSCULAR ATROPHY (SMA) RESEARCH PROGRAM	12.420	W81XWH-08-1-0009		295,961
COLUMBIA UNIVERSITY SPINAL MUSCULAR ATROPHY (SMA) RESEARCH PROGRAM	12.420	W81XWH-08-1-0009	SC2	175,026
COLUMBIA UNIVERSITY SPINAL MUSCULAR ATROPHY (SMA) RESEARCH PROGRAM	12.420	W81XWH-08-1-0009	SC3	164,049
COLUMBIA UNIVERSITY SPINAL MUSCULAR ATROPHY (SMA) RESEARCH PROGRAM	12.420	W81XWH-08-1-0009		111,264
INTERACTION OF SYNUCLEIN AND INFLAMMATION IN DOPAMINERGIC NEURODEGERATION	12.420	W81XWH-08-1-0465		316,862

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NEUROPROTECTIVE SMALL MOLECULES FOR THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS	12.420	W81XWH-08-1-0522		179,479
NEUROPROTECTIVE SMALL MOLECULES FOR THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS	12.420	W81XWH-08-1-0522	SC1	82,439
NEXT-GENERATION MOUSE MODELS FOR STUDYING PROSTATE CANCER INITIATION AND PROGRESSION	12.420	W81XWH-09-1-0377		16,432
NOTCH DIAGNOSE AND TREAT BREAST CANCER	12.420	W81XWH-07-01-03	SC1	198,024
NOTCH DIAGNOSE AND TREAT BREAST CANCER	12.420	DDEF W81XWH-07-01-03		105,092
PROSTATE CANCER IN VIETNAM VETERANS	12.420	DAMD17-03-1-0236		-2
QUALITY-OF-CARE INDICATORS FOR EARLY-STAGE PROSTATE CANCER	12.420	DDEF W81XWH-05-1-017		113,408
RACIAL DISPARITIES IN THE INITIATION AND INTENSITY OF ADJUVANT THERAPY FOR BREAST CANCER	12.420	DDEF W81XWH-0510399		1,618,182
THE ROLE OF XMRV A NOVEL XENOTROPIC MURINE RETROVIRUS IN HUMAN PROSTATE CANCERS	12.420	W81XWH-07-1-0387		95,098
THE ROLE OF XMRV A NOVEL XENOTROPIC MURINE RETROVIRUS IN HUMAN PROSTATE CANCERS	12.420	W81XWH-07-1-0387	SC1	74,259
COORDINATION OF BRCA1/BARD1 AND MRE11/RAD50/NBS1 DEPENDENT DNA TRANSACTIONS IN BREAST TUMOR SUPPRESS	12.420	W81XWH-08-0398		203,169
NKX, 1 GENOTYPE AND IGF-1 INTERACT IN PROSTATE CANCER RISK	12.420	W81XWH-07-1-0263 CU5		341,579
CHECKPOINT FUNDTIONS OF THE BRCA/BARD1 TUMOR SUPPRESSOR	12.420	W81XWH-06-1-0323		33,154
COORDINATION OF BRCA1/BARD1-AND MRE11/RAD50/NBS1-DEPENDENT DNA TRANSACTIONS IN BREAST TUMOR SUPPRESS	12.420	W81XWH-08-1-0426		158,145
DESIGN AND TESTING OF BI-FUNCTIONAL P-LOOP TARGETED MDM2 INHIBITORS	12.420	DA AMRDC#W81XWH05102		-1,467
DO LIPOXGENASE PRODUCTS REGULATE PROSTATE CANCER CELL GROWTH BY MODULATING TWO PORE-DOMAIN POTASSIUM CHANNEL	12.420	W81XWH-06-1-0141		-2
MOLECULAR MECHANISMS AND TREATMENT STRATEGIES FOR OBESITY ASSOCIATED CORONARY ARTERY DISEASE	12.420	W81XWH-06-1-0212		168,580
NORTHEAST BIODEFENSE CENTER	12.420	W81XWH-07-1-0357		1,224,262
PRECLINICAL STUDIES OF SIGNALING PATHWAY IN A MUTANT MOUSE MODEL OF HORMONE-REFRACTORY PROSTATE CANCER	12.420	W81XWH-08-1-0087		190,618
PROGRAM PROJECT ON THE PATHOGENESIS AND TREATMENT OF PARKINSON S DISEASE	12.420	DAMD17-03-1-0002	COB	185,633
PROGRAM PROJECT ON THE PATHOGENESIS AND TREATMENT OF PARKINSON S DISEASE	12.420	DAMD17-03-1-0002	COA	136,609
PROGRAM PROJECT ON THE PATHOGENESIS AND TREATMENT OF PARKINSON S DISEASE	12.420	DAMD17-03-1-0002	PJ1	14,486
PROGRAM PROJECT ON THE PATHOGENESIS AND TREATMENT OF PARKINSON'S DISEASE	12.420	DAMD17-03-1-0002	SC1	56,986
RESOLVING THE ROLES OF FOXO TRANSCRIPTION FACTORS AS EFFECTORS OF PTEN IN PROSTATE CANCER	12.420	W81XWH-06-1-0001		259
ROLE OF NOTCH/VEGF-RECEPTOR 3 IN BREAST TUMOR ANGIOGENESIS AND LYMPHAGIOGENESIS	12.420	DA AMRDCW81XWH-04-1-		-368
THE MECHANISM OF DNA DEMETHYLATION IN BREAST TURMORIGENESIS	12.420	DA AMRDCW91ZQ6217N62		9,996
THE ROLE OF CAPILLARY MORPHOGENESIS GENE 2 IN BREAST CANCER NEOVASCULARIZATION	12.420	DAAMRDCW81XWH0610355		26,788
CREATION OF PHYSIOLOGICAL MODELS FOR TUMORIGENESIS OF BASAL MAMMARY EPITHELIAL CELLS	12.420	W81XWH-09-1-0045		18,477
THE ROLE OF CTIP IN BRCA1-MEDIATED TUMOR SUPPRESSION	12.420	DOD W81XWH-09-1-0046		18,477
Basic Scientific Research				
EFFECT OF SLEEP DEPRIVATION OF FMRI-MEASURED COGNITIVE NETWORKS	12.431	DAAD19-02-1-0047	SC1	246,210
EFFECT OF SLEEP DEPRIVATION OF FMRI-MEASURED COGNITIVE NETWORKS	12.431	DAAD19-02-1-0047		96,040
IMAGING CORRELATES OF NEUROGENESIS IN HUMANS	12.431	DAAD19-02-1-0047	SC2	25,420
PROBING THE NEURAL CIRCUITRY OF DECEPTION	12.431	DARPA W911NF-05-1-04		103,321
SMAT GILLS TECHNICAL PROPOSAL	12.431	W911NF-08-1-0045		117,335
MICROWAVE TEST SUITE FOR FERROMAGNETIC MATERIALS AND DEVICES	12.431	DA W911NF-07-1-0326		88,402
MULTI-DEPARTMENT, MULTI-USER FLOW CYTOMETER DEDICATED TO ENGINEERING RESEARCH AND EDUCATION	12.431	W911NF-08-1-0236		198,789
PHOTONIC INTER-CONNECTION NETWORKS FOR HIGH PERFORMANCE EMBEDDED COMPUTING	12.431	W911NF-08-1-0127		125,225
PHOTONIC INTER-CONNECTION NETWORKS FOR HIGH PERFORMANCE EMBEDDED COMPUTING	12.431	W911NF-08-1-0127	CAR	90,217

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PROTEIN-BASED BIOELECTRODES FOR MICROFLUIDIC SENSOR SYSTEMS	12.431	DA W9132T0720008		92,889
FROM THE LAB TO THE FIELD: PORTABLE MEANS OF PRESERVING CORTICAL FUNCTION FOLLOWING SLEEP DEPRIVATION	12.431	DA ARO W911NF-05-1-0		105,764
INSIDE MASQUERADER ATTACK DETECTION	12.431	DA W911NF-06-10151		191,508
NONLINEAR SPECTROSCOPY OF NANOPARTICLE/ACQUEOUS INTERFACES	12.431	DA W911NF0710116		108,488
SMART POLYMER SURFACES	12.431	DA W911NF-04-1-0282		-604
Basic, Applied, and Advanced Research in Science and Engineering				
BETA-ROLL PEPTIDE STRUCTURES FOR ALLOSTERICALLY CONTROLLED BIOMOLECULAR RECOGNITION AND DECONTAMINATION	12.630	DA W9132T-08-2-0012		220,313
DIRECTED EVOLUTION OF ALLOSTERIC BINDING PEPTIDES	12.630	DA W9132T-08-2-0002		104,952
Total Direct Award Programs: Department of the Army				8,536,384
Department of the Navy				
Basic and Applied Scientific Research				
NANOTECHNOLOGY METAL MESH FILTERS AND DICHROICS FOR THE ASTRONOMICAL COMMUNITY	12.300	DN NRL N00173-09-P-0		2,624
NANOTECHNOLOGY METAL MESH FILTERS AND DICHROICS FOR THE ASTRONOMICAL COMMUNITY	12.300	DN NRL N00173-09-P-0 AMB		57
A PHYSICAL APPROACH TO OPTICAL UNDERWATER IMAGING	12.300	N00014-05-1-0188		-10,641
ADVANCED MONTE CARLO SIGNAL PROCESSING AND NETWORK CODING WITH APPLICATIONS IN SENSOR NETWORKS	12.300	N00014-08-1-0318		61,445
ALGORITHMS FOR MATHEMATICAL PROGRAMMING	12.300	N00014-03-1-0514		75,322
ANALYSIS OF AIRBORNE INFRARED IMAGERY FROM CBLAST-LOW	12.300	N00014-05-1-0036		2,614
AUGMENTED REALITY FOR IMMERSIVE TRAINING	12.300	N00014-09-1-0996		89,260
CARDINALITY BOUNDED MATHEMATICAL PROGRAMS: NEW TECHNIQUES, MODELS AND COMPUTATION	12.300	N00014-09-1-0327		57,327
COMPRESSED SENSING: RECOVERY ALGORITHMS AND ANALYSIS	12.300	N00014-08-1-1118		33,652
CRYSTAL ION SLICING FOR SINGLE-CRYSTAL THIN-FILM INTEGRATIONOF MULTIFUNCTIONAL DEVICES	12.300	N00014-03-1-0984		-2
DEVELOPING NOVEL LOW-DIMENSIONAL ELECTRIC AND MAGNETIC FIELD EFFECT DEVICES FROM GRAPHENE	12.300	N00014-06-1-0138	PR	64,877
DEVELOPING NOVEL LOW-DIMENSIONAL ELECTRIC AND MAGNETIC FIELD EFFECT DEVICES FROM GRAPHENE AND OTHER ATOMIC LAYER	12.300	N00014-06-1-0138	AP	71,422
INITIAL OBSERVATION OF HIGH RESOLUTION VELOCITY PROFILE AND STRATIFICATION IN THE SUNDA STRAIT	12.300	N00014-08-1-0618		186,425
LATE-PHASE HEMORRHAGIC SHOCK: NOVEL DIAGNOSTIC TECHNOLOGIES AND THERAPEUTIC INTERVENTIONS	12.300	DN ONR N00014-05-1-0		152,890
LITHOGRAPHICALLY DIRECTED BIOMOLECULAR ASSEMBLY OF ELECTRONICALLY FUNCTIONAL NANOSTRUCTURES	12.300	N00014-09-1-0250		154,576
MATHEMATICAL MODELS OF ILLUMINATION AND REFLECTANCE FOR IMAGE UNDERSTANDING AND MACHINE VISION	12.300	N00014-07-1-0900		145,469
METHODS FOR CONTROLLABLE AND FLEXIBLE IMAGING	12.300	N00014-06-1-0032		51,466
OCEAN SURFACE WAVE OPTICAL ROUGHNESS--INNOVATIVE POLARIZATION MEASUREMENT	12.300	N00014-06-1-0372		186,102
PHOTOMETRIC METHODS FOR SCENE UNDERSTANDING	12.300	N00014-08-1-0329		145,781
REGIONAL STRATIFICATION AND SHEAR OF THE VARIOUS STREAMS FEEDING THE PHILIPPINE STRAITS	12.300	N00014-06-1-0689		169,322
REGIONAL STRATIFICATION AND SHEAR OF THE VARIOUS STREAMS FEEDING THE PHILIPPINE STRAITS	12.300	N00014-09-1-0582		18,173
REMOTE MONITORING OF SUBSURFACE FLOW CONDITIONS IN TIDAL FLATS	12.300	N00014-07-1-0669		6,028
TESTING PARAMETERIZATION OF SUBMESOSCALE OCEAN VARIABILITY: RESOLUTION AND POWER SPECTRA	12.300	N00014-05-1-0492		118,045
THE DESIGN AND BIOLOGICAL TESTING OF RED VISION EYE DROPS	12.300	N00014-08-1-0150		62,219
USER INTERACTION FOR AUGMENTED REALITY	12.300	N00014-04-1-0005		6,944
Total Direct Award Programs: Department of the Navy				1,851,397

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

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Department of the Air Force				
Air Force Defense Research Sciences Program				
DETERMINISTIC SPECTRAL MATCHING OF INTEGRATED HIGH-Q/V PHOTONIC CRYSTAL NANOCAVITY ARRAYS FOR COHERE	12.800	FA8718-08-C-0054		143,894
IMPROVING MAGNITUDE DETECTION THRESHOLDS USING MULTI-STATIONMULTI-EVENT AND MULTI-PHASE METHODS	12.800	DAF#FA8718-05-C-0022		40
COMBINED EXPERIMENTAL AND COMPUTATIONAL STUDY OF PLASTIC DEFORMATION IN CRYSTALS & BICRYSTALS FOR THE DEVELOPMENT	12.800	DAFOSR FA95500610214		23,283
NEW MATERIALS APPROACHES FOR FUTURE GRAPHENE-BASED DEVICES	12.800	DAF OSR CU09-1016		7,896
PLASTICITY IN HIGH TEMPERATURE MATERIALS: TANTALUM AND MONAZITE	12.800	DAF FA9550-09-1-0048		137,621
RESEARCH ON ON-CHIP SI NANOWIRE SOURCES	12.800	DAFOSR FA95500510428 DAR		166,591
RESEARCH ON ON-CHIP SI NANOWIRE SOURCES	12.800	DAFOSR#FA95500510428		42
RESEARCH ON ON-CHIP SI NANOWIRE SOURCES	12.800	DAFOSR FA95500510428 BD2		-832
IMPROVEMENTS TO A MAJOR DIGITAL ARCHIVE OF SEISMIC WAVEFORMS FROM NUCLEAR EXPLOSIONS	12.800	DAFAFRLFA871807C0004		126,476
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075		80,302
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075 STO		36,266
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075 KER		4,413
SECURE ENCRYPTED SEARCH	12.800	DAF FA8750-09-1-0075 MAL		1,922
Total Direct Award Programs: Department of the Air Force				727,914
Other DOD				
MEDICAL, CHEMICAL AND BIOLOGICAL DEFENSE RESEARCH	12.000	DTRA1-07-C-0022		169,305
Basic Scientific Research - Combating Weapons of Mass Destruction				
METANOLOMICS-BASED RAPID BIODOSIMETRY FOR PARTIAL-BODY EXPOSURES	12.351	HDTRA1-07-1-0025		138,029
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		123,348
KNOWLEDGE REPRESENTATION AND ONTOLOGY RESEARCH	12.630	NGA HMI1582-08-1-000		30,842
Mathematical Sciences Grants Program				
ULTRA HIGH BANDWIDTH LOW POWER TRANSPARENT OPTICAL INTERFACE FOR CHIP MULTIPROCESSORS	12.901	NSAH9823008C2660000		282,010
Research and Technology Development				
DARPA COMPUTER SCIENCE STUDY GROUP PHASE 2 PROPOSAL	12.910	HR 0011-08-1-0069		194,359
DARPA RA06-46: THEORETICAL FOUNDATION OF EFFICIENT MACHINE LEARNING ALGORITHMS	12.910	DARPA HR0011-0710012		4,784
PREVENTIVE RYANODINE RECEPTOR CALCIUM LEAK AND MUSCLE FATIGUE DURING SUSTAINED EXERCISE BY CALCIUM	12.910	DARPA W911NF-05-1-04		393,831
PREVENTIVE RYANODINE RECEPTOR CALCIUM LEAK AND MUSCLE FATIGUE DURING SUSTAINED EXERCISE BY CALCIUM	12.910	DARPA W911NF-05-1-04 SC2		113,709

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PREVENTIVE RYANODINE RECEPTOR CALCIUM LEAK AND MUSCLE FATIGUE DURING SUSTAINED EXCERCISE BY CALCIUM	12.910	DARPA W911NF-05-1-04 SC1		22,300
NONLINEAR SIGNAL PROCESSING & NONCLASSICAL OPTICS IN SILICON ULTRAHIGH-Q/V PHOTONIC CRYSTAL NANOSTRUCTURED CAVITIES	12.910	DAW911NF-07-1-0175		24,678
Total Direct Award Programs: Other DOD				1,497,195
Pass-through Awards				
Department of the Army				
Military Medical Research and Development				
MOUNT SINAI SCHOOL OF MEDICINE	12.420	MSSM 0258-2931-4609	W81XWH-04-1-0514	1,802
RESEARCH FOUNDATION OF THE STATE UNIVERSITY OF NEW YORK	12.420	SUNYRF 46450	W81XWH-08-1-0293	13,971
VANDERBILT UNIVERSITY	12.420	VU CU09-0527	W81XWH-05-1-0239	17,536
Basic Scientific Research				
CORNELL UNIVERSITY	12.431	CU 54696-8648	W911NF-08-1-0058	312,319
National Intelligence Council	12.431	NIC 20071056009000		1,098
UNIVERSITY OF CALIFORNIA, DAVIS	12.431	UCD 08-000678-CU-1	W911NF-08-1-0364	122,421
Total Pass-through Programs: Department of the Army				469,147
Department of the Navy				
Basic and Applied Scientific Research				
UNIVERSITY OF CHICAGO	12.300	UCHICA 33864	N00014-04-1-0224	99,014
UNIVERSITY OF MARYLAND	12.300	UMARY Z887101	N00014-08-1-0638	24,328
UNIVERSITY OF MARYLAND	12.300	UMARY Z887101 NAY	N00014-08-1-0638	198,779
UNIVERSITY OF MARYLAND	12.300	UMARY Z887101	N00014-08-1-0638	179,982
UNIVERSITY OF PENNSYLVANIA	12.300	UPENN 548359	N00014-07-1-0907	83,987
Total Pass-through Programs: Department of the Navy				586,090
Department of the Air Force				
Air Force Defense Research Sciences Program				
CORNELL UNIVERSITY	12.800	CU 51817-8428	FA9550-07-1-0411	84,790
GEORGE MASON UNIVERSITY	12.800	GMU 107151A STO	FA9550-07-0527	161,558
GEORGE MASON UNIVERSITY	12.800	GMU 107151A	FA9550-07-0527	70,570
GEORGE MASON UNIVERSITY	12.800	GMU 107151A NIE	FA9550-07-0527	90,540
PRINCETON UNIVERSITY	12.800	PU CU08-8717	FA8650-08-c-7851	73,169
QD VISION, INCORPORATED	12.800	QDVISION CUAFOSRT034	FA9550-07-C-0056	66,278
Total Pass-through Programs: Department of the Air Force				546,905

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Other DOD				
CFD RESEARCH CORPORATION	12.000	CFDRC CU52248701	W81XWH-05-C-0148	41,766
JOHNS HOPKINS UNIVERSITY	12.000	JH 2000262210	H98230-07-C-0365/0000	163,874
SUNY STATE COLLEGE OF OPTOMETRY	12.000	SUNYOPT CU522454	W81XWH-06-1-0676	271,196
THE COLLIER GROUP INC.	12.000	COLLIER CU08-9305	NDU	20,661
THE SALK INSTITUTE FOR BIOLOGICAL STUDIES	12.000	SALK PO405813	DARPA DAAD19-02-1-0267	507
Basic, Applied, and Advanced Research in Science and Engineering				
MITRE CORPORATION	12.630	MITRE 76582	ARDA	46,554
MITRE CORPORATION	12.630	MITRE 67058	NSA	10,121
UNIVERSITY OF NEW MEXICO	12.630	UNMEX 98600787B5	FA9550-06-1-0264	254,432
Language Grant Program				
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.900	IBM W0753031 CAR	NSAH9823007C04720000	10,779
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.900	IBM W0753031	NSAH9823007C04720000	-441
Mathematical Sciences Grants Program				
TELCORDIA	12.901	TELCORDIA 20005651 SCP	N66001-08-C-2012	135,278
TELCORDIA	12.901	TELCORDIA 20005651	N66001-08-C-2012	99,114
Information Security Grant Program				
GEORGIA INSTITUTE OF TECHNOLOGY	12.902	GIT #B-12-664-S1	NSA H98230-05-C-0486	261,362
Research and Technology Development				
	12.910	GDIT USAF--5408-25-S	F33615-03-D-5408	72,216
ACXIOM	12.910	ACXIOM CU09-0773	N41756-06-C-3077	87,723
BAE SYSTEMS NATIONAL SECURITY SOLUTIONS, INC	12.910	BAESNSS CU09-0474	DARPA HR001-09-C-0040	45,240
BBN SYSTEMS AND TECHNOLOGIES	12.910	BBN CU08-7451	HR0011-08-C-0004	158,917
BOISE STATE UNIVERSITY	12.910	BOISE 129G106001-A	FA9453-08-0252	24,780
CACI TECHNOLOGIES, INC	12.910	CACITI S09-103224 BAI	W15P7-06-D-E402	25,912
DEPARTMENT OF THE INTERIOR	12.910	DI NBCHCO80029		1,524,927
DEPARTMENT OF THE INTERIOR	12.910	DI NBCHCO80029 SCP		130,479
DEPT. OF THE AIR FORCE, AIR FORCE RESEARCH LABORATORY	12.910	FA8750-06-1-0180	DARPA-AOAC52	9,674
GEORGIA INSTITUTE OF TECHNOLOGY	12.910	GIT #B-12-M06-S22	DARPA 2003-IT-674	102,284
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM CU08-7946	DARPA N/A	185,164
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM CU08-8978	HR0011-08-C-0102	135,509
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM CU08-8978 OSG	HR0011-08-C-0102	65,552

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INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853748HAB	DARPA N/A	397,699
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W083748	HR0011-09-C-0002	156,670
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853813HON	DARPA BBA 0750	153,333
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853813	DARPA BBA 0750	77,887
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853813KIM	DARPA BBA 0750	58,849
INTERNATIONAL BUSINESS MACHINES, CORPORATION	12.910	IBM W0853813GRA	DARPA BBA 0750	58,784
KITWARE, INC.	12.910	KITWARE HR001108C013	HR0011-08-C-0135-S7	171,143
STANFORD RESEARCH INTERNATIONAL	12.910	SRI 27-001026	DARPACU02606401	-11,660
STANFORD RESEARCH INTERNATIONAL	12.910	SRI 27-001026B	DARPACU02606401	6,036
STANFORD RESEARCH INTERNATIONAL	12.910	SRI 27-001026	*DARPACU02606401	1,032,746
STANFORD RESEARCH INTERNATIONAL	12.910	SRI 27-001026CCL	*DARPACU02606401	16,806
UNIVERSITY OF CALIFORNIA, LOS ANGELES	12.910	UCLA 0160 G GF211A4	DARAP HR0011-04-3-0002	92,675
UNIVERSITY OF COLORADO	12.910	UCOL 154-3158	HR011-06-1-0048	155,049
UNIVERSITY OF ILLINOIS	12.910	UIL #2003-07765-1-00	HR0011-04-1-0034	50,236
UNIVESITY OF CALIFORNIA, BERKELEY	12.910	UCB SA5412-79952		94,032

Total Pass-through Programs:	Other DOD	6,393,865
Total: Department of Defense		20,608,897

Department of Commerce
Direct Awards

Department of Commerce

DATA MANAGEMENT FOR THE US EXTENDED CONTINENTAL SHELF PROGRAM	11.000	RA133E08SE3446		24,001
Climate and Atmospheric Research				
ABRUPT CHANGE IN THE WEST ANTARCTIC PENINSULA IN A WARMER WORLD	11.431	NA080AR4320912	A6E	15,757
ABRUPT CLIMATE CHANGE IN A WARMING WORLD: LESSONS FROM HOLOCENE PALEO AND MODERN INSTRUMENTAL RECORD & MODEL	11.431	NA080AR4320912	A6I	39,142
ABRUPT CLIMATE CHANGE IN A WARMING WORLD: SYNTHESIS OF TRACER DATA	11.431	NA080AR4320912	A6B	8,510
AUTONOMOUS MULTI-PARAMETER MEASUREMENTS FROM A DRIFTING BUOY DURING THE SOUTHERN OCEAN GAS EXCHANGE	11.431	NA070AR4310094	CIC	83,237
AUTONOMOUS MULTI-PARAMETER MEASUREMENTS FROM A DRIFTING BUOYDURING THE SOUTHERN OCEAN GAS EXCHNAGE EXPERIMENT	11.431	NA07OAR4310094		-2,717
CLIMATE VARIABILITY, AIR QUALITY, AND HUMAN HEALTH: MEASURING REGIONAL VULNERABILITY FOR IMPROVED DECISION-MAKING	11.431	NA04OAR4310185		115,325
CLIMATE VARIABILITY, AIR QUALITY, AND HUMAN HEALTH: MEASURING REGIONAL VULNERABILITY FOR IMPROVED DECISION-MAKING	11.431	NA04OAR4310185	SC1	8,630
CLIMATE-INFORMED ADAPTIVE MANAGEMENT & PLANNING TO MEET URBAN WATER SUPPLY & FLOOD MITIGATION GOALS IN THE DELAWARE	11.431	NA07OAR4310377		116,855
CORC-ARCHES: MODELING AND UNDERSTANDING LATE HOLOCENE AND NEAR TERM FUTURE HYDROCLIMATE CHANGE	11.431	NA080AR4320912	A6A	483,690
EARTH INSTITUTE CLIMATE CENTER	11.431	NA080AR4320912	A6O	11,133

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FLUCTUATIONS IN OCEAN HEAT AND FRESHWATER INVENTORY AND OF INTEROCEAN EXCHANGE	11.431	NA080AR4320912	A6C	20,215
FORCING MECHANISMS FOR TROPICAL RAINFALL IN GCMS	11.431	NA060AR4310143	PR	93,817
GENERATION AND EVALUATION LONG-TERM RETROSPECTIVE FORECAST WITH NCEP CLIMATE FORECAST SYSTEM	11.431	NA080AR4320912 A2		27,850
HOLOCENE VARIABILITY OF ATLANTIC SURFACE PROPERTIES AND WEST AFRICAN ARIDITY	11.431	NA080AR4320912	A6J	33,236
MECHANISMS AND IMPACTS OF ENSO AND ENSO-INDUCED NORTH PACIFIC SST ANOMALIES DURING SUMMER	11.431	NAO60AR4310144		109,647
NEW TOOLS FOR NORTH AMERICAN DROUGHT PREDICTION	11.431	NAO80AR4310622		36,112
NOAA ARCHES 2008-2010 SCHAEFER MOUNTAIN GLACIERS	11.431	NA080AR4320912	A6M	21,066
PREDICTABILITY OF TROPICAL PACIFIC DECADAL VARIABILITY AND NORTH AMERICAN DROUGHT	11.431	NA060AR4310151		174,769
QUANTIFYING AIR-SEA GAS EXCHANGE AT HIGH WIND SPEEDS USING ADUAL GAS TRACER (3HW/SF6) TECHNIQUE DURING THE SOUTHERN	11.431	NA070AR4310113	PR	15,391
RADIOGENIC ISOTOPE TRACER PALEO-PROXY SCOPE	11.431	NA080AR4320912	A6L	4,670
SOUTHERN OCEAN-ICE SHEET INTERACTIONS	11.431	NA080AR4320912	A6D	36,395
SPECTRAL CHARACTERISTICS OF CLIMATE PROXIES AND THEIR EXPRESSION IN CLIMATE FIELD RECONSTRUCTIONS.	11.431	NA070AR4310060		60,500
THE INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE RESEARCH PREDICTION: 2005 - 2010	11.431	NA050AR4311004		10,766,020
THE MECHANISMS AND PREDICTABILITY OF MULTI-BASIN INFLUENCES ON NORTH AMERICAN DROUGHT	11.431	NA080AR4320912	A1	69,294
TOWARDS A BETTER UNDERSTANDING OF THE RELATIONSHIP BETWEEN CLIMATE CHANGE AND TROPICAL CYCLONE	11.431	NA080AR4320912	A4	85,736
TOWARDS A BETTER UNDERSTANDING OF THE RELATIONSHIP BETWEEN CLIMATE CHANGE AND TROPICAL CYCLONE	11.431	NA080AR4320912	AP	17,572
Office of Oceanic and Atmospheric Research (OAR) Joint and Cooperative Institutes				
2007 SOLAS SUMMER SCHOOL	11.432	NA080AR4320754	P01	5,270
ATMOSPHERIC AND COASTAL OCEAN CO2 MEASUREMENT PLATFORM-SABSOON	11.432	NAO30AR4320179	P18	-4,151
CICAR: 2007 SOLAS SUMMER SCHOOL	11.432	NAO30AR4320179	21A	23
CICAR: ARCHES: CONSTRAINING CHANGES IN WINDS, THE CONVEYOR....	11.432	NAO30AR4320179	P05	42,792
CICAR: ARCHES: INFRASTRUCTURE	11.432	NAO30AR4320179	P02	69,963
CICAR: ARCHES: MODERN OBSERVATIONS	11.432	NAO30AR4320179	P11	235,032
CICAR: ARCHES: SOUTHERN OCEAN MODELING AND ANALYSIS	11.432	NAO30AR4320179	P08	36,449
CICAR: ARCHES: SUBCONTRACTORS	11.432	NAO30AR4320179	SUB	151,398
CICAR: ARCHES: TRACER OBSERVATIONS (TRITIUM, HELIUM, OXYGEN	11.432	NAO30AR4320179	P10	131,538
CICAR: ARCHES: TRACER OBSERVATIONS OF DEEP FORMATIONS & CIRC	11.432	NAO30AR4320179	P09	121,458
CICAR: ARCHES-MECHANISMS OF ABRUPT CLIMATE CHANGE	11.432	NAO30AR4320179	P07	33,601
CICAR: ARCHES-PALEO SEA-ICE DISTRIBUTIONS	11.432	NAO30AR4320179	P04	277,901
CICAR: COLLABORATIVE RESEARCH: DVLPT OF A BLENDED, LIVING GRIDDED NETWORK OF DROUGHT RECONSTRUCTIONS OF NORTH AMER	11.432	NAO30AR4320179	P12	8,243
CICAR: CONSORTIUM ON THE OCEAN'S ROLE IN CLIMATE-ABRUPT	11.432	NAO30AR4320179	P01	129,251
CICAR: DEVELOPMENT OF AN AUTONOMOUS SYSTEM FOR DIRECT MEASUREMENT OF THE FLUX OF CO2 OVER THE OCEAN	11.432	NAO30AR4320179	P24	3,794
CICAR: MONITORING THE INDONESIAN THROUGHFLOW IN MAKASSAR STRAIT	11.432	NAO30AR4320179	P29	6,260
CICAR: OCEAN ATMOSPHERE SENSOR INTEGRATION SYSTEM (OASIS)	11.432	NAO30AR4320179	P26	-6,584
CICAR: PREDICTIONS AND PREDICTABILITY OF EL NINO EVENTS: EPOCHS AND BIASES	11.432	NAO30AR4320179	P28	43,281
CICAR: SOUTH ATLANTIC OCEAN-ATMOSPHERE INTERACTION	11.432	NAO30AR4320179	P15	5,268
CICAR: THE INTERGRATED ROLE OF SNOW, OROGRAPHY AND DYNAMICAL WAVES IN FACILIATING WESTERN US LAND SU	11.432	NAO30AR4320179	22A	101,796
CICAR: THE ROLE OF OROGRAPHY ON THE NORTH AMERICAN MONSOON ONSET AND INTERANNUAL VARIABILITY	11.432	NAO30AR4320179	P17	15,791
CICAR: TROPICAL INFLUENCES ON RECENT AND HISTORICAL DROUGHTS OVER NORTH AMERICA	11.432	NAO30AR4320179	P23	1,072

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CICAR: UNDERSTANDING CLIMATE CHANGE FROM THE MEDIEVAL WARM PERIOD TO THE GREENHOUSE FUTURE	11.432	NAO30AR4320179 20A		-173
CICAR: UNDERWAY CO2 MEASUREMENTS ABOARD THE RVIB PALMER AND DATA MANAGEMENT OF THE GLOBAL VOS PROGRA	11.432	NAO30AR4320179	P27	199,546
CICAR:INVESTIGATING SOME PARTICAL IMPLICATIONS OF UNCERTAINTY IN OBSERVED SST'S	11.432	NAO30AR4320179	P25	1,847
CICAR:THE INTEGRATED ROLE OF SNOW, OROGRAHPY & DYNAMICAL WAVES IN FACILIATING WESTERN US LAND SURFACE-CLIMATE LINKAGE	11.432	NAO30AR4320179	22B	2,241
CIGAR: MULTIVARIATE APPROACH TO ENSEMBLE RECONSTRUCTION OF HISTORICAL MARINE SURFACE WINDS FROM SHIPS AND SATELLITES	11.432	NAO30AR4320179	P13	8,798
COOPERATIVE INSTITUTE FOR CLIMATE APPLICATIONS AND RESEARCH (CICAR)	11.432	NA08OAR4320754		53,159
ERROR MODELS FOR REMOTELY SENSED SEA SURFACE HEIGHTS	11.432	NAO30AR4320179	P30	97,134
ERROR MODELS FOR REMOTELY-SENSED SEA SURFACE HEIGHTS AND TEMPERATURES IN OCEAN DATA ASSIMILATION	11.432	NAO80AR4320912	A5	29
GLOBAL OCEANIC 3HE DATA SETS: CALIBRATION TOOLS FOR MODELS	11.432	NAO30AR4320179	P31	9,638
MECHANISMS OF 21ST CENTURY CHANGES IN SAHEL PRECIPITATION	11.432	NAO30AR4320179	P33	14,888
MONITORING THE INDONESIAN THROUGHFLOW IN MAKASSAR STRAIT	11.432	NA08OAR4320754 P05		204,144
NOAA COOPERATIVE INSTITUTE FOR CLIMATE APPLICATIONS AND RESEARCH (CICAR) COOPERATIVE AGREEMENT PROPOSAL	11.432	NAO30AR4320179	PR	54,444
THERMOCLINE CIRCULATION AND SST VARIABILITY IN THE EASTERN TROPICAL PACIFIC AND ATLANTIC	11.432	NAO30AR4320179	P32	35,420
UNDERWAY CO2 MEASUREMENTS ABOARD THE RVIB PALMER AND DATA MANAGEMENT OF THE GLOBAL VOS PROGRAM	11.432	NA08OAR4320754	PO4	236,957
WEDDELL SEA MOORINGS	11.432	NA08OAR4320754	PO3	60,847
Total Direct Award Programs: Department of Commerce				14,864,218
Pass-through Awards				
Department of Commerce				
ITA Special Projects				
INTERNATIONAL BUSINESS MACHINES, CORPORATION	11.113	IBM W0145970	DC W911NF0630001	325,390
Climate and Atmospheric Research				
SCRIPPS INSTITUTE OF OCEANOGRAPHY (UCSD)	11.431	UCSIO PO10196097	SCF NA17RJ1231	-3
Office of Oceanic and Atmospheric Research (OAR) Joint and Cooperative Institutes				
OPEN-SOURCE PROJECT DATA ACCESS PROTOCOL	11.432	OPENDAP CU07-1864	DC NOAA	35,762
OREGON STATE UNIVERSITY	11.432	OREGSU NO.NA081A-B	NA17RJ1362	-2
Special Oceanic and Atmospheric Projects				
MIDDLEBURY COLLEGE	11.460	MIDLBRY 265807	NA060AR4600218	4,165
Total Pass-through Programs: Department of Commerce				365,312
Total: Department of Commerce				15,229,530

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Department of Education				
Direct Awards				
Department of Education				
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS FOR MIDDLE EAST INSTITUTE	84.015	DE P015B060101		229,027
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015B060078		-346
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015B060025-08		243,568
Education Research, Development and Dissemination				
COGNITION AND STUDENT LEARNING RESEARCH GRANT PROGRAM	84.305	DE R305H030175		-2
PRACTICAL SOLUTIONS FOR MISSING DATA AND IMPUTATION	84.305	DE R305D090006		4,533
THE EFFECT OF METACOGNITION ON CHILDREN'S CONTROL OF THEIR STUDY AND OF THEIR COGNITIVE PROCESSES	84.305	DE R305H060161		285,663
THE EFFECTS OF NO CHILD LEFT BEHIND ON SCHOOL SERVICES AND STUDENT OUTCOMES	84.305	DE R305A090032		4,750
Total Direct Award Programs: Department of Education				767,193
Pass-through Awards				
Department of Education				
FAMILY SERVICES OF WESTCHESTER	84.000	FSW CU09-1886	DE	9,997
NEW YORK UNIVERSITY	84.015	NYU F6014-01	DEP015B060168-01	121,817
National Institute on Disability and Rehabilitation Research				
CAROLINAS REHABILITATION	84.133	CAREHAB CU09-1188	H133A080035	44,331
JOHN F. KENNEDY JOHNSON REHABILITATION INSTITUTE	84.133	JFKJRI CU51903703	5 R01 H133A031713	12,951
JOHN F. KENNEDY JOHNSON REHABILITATION INSTITUTE	84.133	JFKJRI CU51903704	H133A031713	50,191
JOHN F. KENNEDY JOHNSON REHABILITATION INSTITUTE	84.133	JFKJRI CU08-7619	H133A031713	42,927
JOHN F. KENNEDY MEDICAL CENTER	84.133	JFKMC 090102-001 SC1	DE H133A020518	23,428
JOHN F. KENNEDY MEDICAL CENTER	84.133	JFKMC 090102-001	DE H133A020518	6,740
TEACHERS COLLEGE	84.237	TC OSP 511229	H326 C000004-06	25,473
Total Pass-through Programs: Department of Education				337,855
Total: Department of Education				1,105,048

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Department of Agriculture				
Direct Awards				
Department of Agriculture				
Grants for Agricultural Research Competitive Research Grants				
DEVELOPMENT & SENSITIVITY ANALYSIS OF HIGH RESOLUTION LAND SURFACE PARAMETERS FROM SATELLITE DATA	10.206	USDA	20063561516716	114,763
Total Direct Award Programs: Department of Agriculture				114,763
Total: Department of Agriculture				114,763
Department of Interior				
Direct Awards				
Department of Interior				
GEOLOGICAL AND GEOPHYSICAL INVESTIGATION OF THE 2006 NGHP-1 SITES IN THE ANDAMAN SEA	15.000	USGS	08CRSA0261	66,115
Earthquake Hazards Reduction Program				
COLLABORATIVE RESEARCH: DEVELOPMENT OF A CALIFORNIA-WIDE THREE-DIMENSIONAL SEISMIC WAVESPEED MODEL	15.807	USGS	07HQGR0045	10,809
DEVELOPMENT OF A CALIFORNIA-WIDE THREE-DIMENSIONAL SEISMIC WAVESPEED MODEL	15.807	USGS	08HQGR0042	4,545
EVALUATION OF DOUBLE DIFFERENCE ALGORITHMS OF THE NEIC	15.807	USGS	07HQGR0044	21,466
REAL-TIME DOUBLE-DIFFERENCE LOCATIONS AS THE CISN: IMPLEMENTATION AND DD CATALOG MAINTENANCE	15.807	USGS	G09AP00018	26,682
THE LAMONT COOPERATIVE SEISMOGRAPHIC NETWORK AND THE ADVANCED NATIONAL SEISMIC SYSTEMS: EARTHQUAKE HAZARD	15.807	USGS	#07HQAG0021	360,303
THREE-DIMENSIONAL MODELS OF CRUSTAL STRUCTURE IN EASTERN NORTH AMERICA	15.807	USGS	07HQGR0046	4,287
UPDATING AND MAINTAINING A DOUBLE-DIFFERENCE EARTHQUAKE CATALOG FOR NORTHERN CALIFORNIA	15.807	USGS	08HQGR0043	64,429
ANALYSIS OF MICROSEISMICITY AT PARKLAND, CALIFORNIA, THROUGH IMPROVE DETECTION AND LOCATION	15.807	USGS	G09AP00067	12,527
U.S. Geological Survey_ Research and Data Collection				
ENHANCING MALARIA EARLY WARNING WITH EARTH OBSERVATION AND MODELING RESULTS	15.808	USGS	06CRAG0028	117,816
IPC3 WORKSHOP	15.808	USGS	08HQGR0152	24,968
MEASUREMENT OF TRITIUM/HELIUM, NEON AND 3HE/4HE GROUNDWATER SAMPLES	15.808	USGS	#05HQCNO029	82,800
THE NORTHEAST INFORMATION NODE OF THE NATIONAL BIOLOGICAL INFORMATION INFRASTRUCTURE	15.808	USGS	#05CRAG0041	159,390
Total Direct Award Programs: Department of Interior				956,137

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Pass-through Awards				
Department of Interior				
DRAPER LABORATORY	15.000	DRAPER SC001-0000000	2006*1089719*880	83,504
INTERNATIONAL BUSINESS MACHINES, CORPORATION	15.000	IBM W0752588 CHG	DI NBCGC070059	-50,018
National Park Service/Department of the Interior	15.000	NPKS H528408003		6,852
National Park Service/Department of the Interior	15.000	NPKS #H5284080029		946
Total Pass-through Programs: Department of Interior				41,284
Total: Department of Interior				997,421
Department of Labor				
Pass-through Awards				
Department of Labor				
	17.000	NYATEP CU08-8736		24,982
Total Pass-through Programs: Department of Labor				24,982
Total: Department of Labor				24,982
Department of State				
Direct Awards				
Department of State				
TIBET ECOTOURISIM PROJECT YR 3	19.000	DS SECAPE 07GR14 DT		33,178
Total Direct Award Programs: Department of State				33,178
Pass-through Awards				
Department of State				
	19.000	NCEEEER 823-02	DS	32,500
Fishermen's Guaranty Fund				
CALIF STRONG MOTION INSTRUMENTATION PGM DEPT OF CONSERV	19.204	CSMIP 1006-903		378

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Academic Exchange Programs - Graduate Students				
INSTITUTE OF INTERNATIONAL EDUCATION	19.400	IIE CU09-1769	DS	3,171
ACADEMY FOR EDUCATIONAL DEVELOPMENT	98.000	AED 3760-02	GHS-I-00-07-00008-00	295,926
USAID Foreign Assistance for Programs Overseas				
FAMILY HEALTH INTERNATIONAL	98.001	FHI 132120	GPO-A-00-05-00022-00	166,845
USAID Development Partnerships for University Cooperation and Development				
IRIS CENTER AT THE UNIVERSITY OF MARYLAND	98.012	IRISMD 4-44265-09-11	USAID 118-A-00-02-00135	14,179
NATIONAL ACADEMIES	98.012	NAS PGA-P280423	ESP-A-00-05-00001-00	25,898
WILDLIFE CONSERVATION SOCIETY	98.012	WCS CU028137	USAID EPP-A-00-060001400	127,065
Total Pass-through Programs: Department of State				665,962
Total: Department of State				699,140

Department of Transportation
Direct Awards

Department of Transportation

CORROSION MONITORING RESEARCH STUDY OF NEW YORK CITY BRIDGES	20.000	FHADTFH61-04-C-00040		373,544
Airport Improvement Program				
LAP VOIP EXTENSIONS FOR THE TERMINAL LAB	20.106	FAA DTFAAC-08-P-0258		48,727
Total Direct Award Programs: Department of Transportation				422,271

Pass-through Awards

Department of Transportation

UNIVERSITY OF ALABAMA AT BIRMINGHAM	20.000	UAB CU02405701	DTNH22-01-H-07551	-215
	20.502	RFCUNY 49777-15-19		24,000
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	20.502	RFCUNY #49777-18-0	DT RS99-G-0002	-7

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
University Transportation Centers Program				
RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK	20.701	RFCUNY #49111	DTRT07-G-0002	3,476
Total Pass-through Programs: Department of Transportation				27,254
Total: Department of Transportation				449,525

Environmental Protection Agency
Direct Awards

Environmental Protection Agency

AN INQUIRY INTO THE ASARCO SMELTER AT TACOMA AND RESULTANT WIDESPREAD SOIL CONTAMINATION	66.000	FP-91658001-0		300
CCCEH - ADMIN CORE	66.500	EPA RD-83214101	PRM	62,779
CCCEH - ASTHMA PROJECT	66.500	EPA RD-83214101	S4	20,426
CCCEH - COTAC	66.500	EPA RD-83214101	S3	32,949
CCCEH - COTAC	66.500	EPA RD-83214101	SC3	2,292
CCCEH - DATA CORE	66.500	EPA RD-83214101	S5	126,250
CCCEH - DEVELOPMENT PROJECT	66.500	EPA RD-83214101	S1	80,821
CCCEH - EXPOSURE CORE	66.500	EPA RD-83214101	S6	145,903

Science To Achieve Results (STAR) Research Program

COLUMBIA CENTER FOR CHILDREN'S ENVIRONMENTAL HEALTH	66.509	EPA RD-83214101	S8	3,804
COMPARATIVE LIFE CYCLE ANALYSIS OF NANO AND BULK MATERIALS IN PHOTOVOLTAIC ENERGY ANALYSIS	66.509	EPA RD-83333401		152,248
INFORMATION, ALTRUISM, AND REGULATION - EVIDENCE FROM SPARE THE AIR USING A REGRESSION DISCONTINUITY APPROACH	66.509	EPA RD-83284801-0		29,869
QUANTIFYING GRAZING ON HARMFUL ALGAE WITH A NOVEL QPCR-BASEDTECHNIQUE	66.509	EPA RD83322201		31,607

Science To Achieve Results (STAR) Fellowship Program

ANALYSIS OF URANIUM EXPOSURE IN THE EASTERN AGENCY OF NAVAJO NATION	66.514	EPA FP-91688701-0		12,231
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P3 Award: National Student Design Competition for Sustainability

MULTIFUNCTION ENERGY PLATFORM PILOT	66.516	EPA #SU-83391601-0		9,601
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Environmental Protection Consolidated Grants for the Insular Areas - Program Support

BIOMARKERS OF PAH EXPOSURE AND ASTHMA IN AN INNER CITY BIRTHCOHORT	66.600	EPA RD-83209601-0		71,305
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Total Direct Award Programs: Environmental Protection Agency				782,385
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For year ended June 30, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Pass-through Awards Environmental Protection Agency EASTERN RESEARCH GROUP, INC. 66.000 ERGI 0133.21.018/2 GS-IOF-0036R 25,323 Long Island Sound Program NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION 66.437 NEIWPC0612-001 EPA LI-97130601 23,856 UNIVERSITY OF WASHINGTON 66.506 UWASH 566594 EPA RD-83374101 16,615 Science To Achieve Results (STAR) Research Program HARVARD UNIVERSITY 66.509 HARVARD 123392 RD-8227001 3,079 JOHNS HOPKINS UNIVERSITY 66.509 JH 2000010944 EPA 82,731 UNIVERSITY OF WASHINGTON 66.509 UWASH #992419 EPA RD-8316901 251,184 Science To Achieve Results (STAR) Fellowship Program CLARK UNIVERSITY 66.514 CLARK 2E046B EPA CU-071664 47,003 Hazardous Waste Management Grant Program for Tribes WATER ENVIRONMENT RESEARCH FOUNDATION 66.812 WERF U4R07 EPA 204,956 Total Pass-through Programs: Environmental Protection Agency 654,747 Total: Environmental Protection Agency 1,437,132				
Federal Government Pass-through Awards Other Federal ALLIANT TECHSYSTEMS 99.999 ATK #SC-5954-001 GMISC CU02483101 -7,943 Total Pass-through Programs: Other Federal -7,943 Total: Federal Government -7,943				
Nat. Endowment for the Arts & Humanities Direct Awards				

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Nat. Endowment for the Arts & Humanities				
LIBERTY, PATERNALISM AND EQUITY -- PUBLIC HEALTH AND THE LEGACY OF JOHN STUART	45.000	NEH RZ-50636-06		0
Promotion of the Arts_Grants to Organizations and Individuals				
NEA ARTS JOURNALISM INSTITUTE IN CLASSICAL MUSIC AND OPERA AT COLUMBIA	45.024	NEA DC 09-07		12,069
Promotion of the Humanities_Division of Preservation and Access				
ADVANCED PAPYROLOGICAL INFORMATION SYSTEM PHASE 6	45.149	NEH PW-50049-98		73,007
Promotion of the Humanities_Fellowships and Stipends				
COLONIAL SURVEILLANCE AND THE EDUCATED INDIAN	45.160	NEH FA-53223-07		-6
Total Direct Award Programs: Nat. Endowment for the Arts & Humanities				85,070
Total: Nat. Endowment for the Arts & Humanities				85,070
Other Agencies / Gov't				
Direct Awards				
Japan US Friendship Commission				
2008-2009 JAPAN-U.S. FRIENDSHIP COMMISSION PRIZE FOR THE TRANSLATION OF JAPANESE LITERATURE	90.300	JAPUS CU08-8399		14,307
2009-2010 JAPAN-U.S. FRIENDSHIP COMMISSION PRIZE FOR THE TRANSLATION OF JAPANESE LITERATURE	90.300	JAPUS #09-13		388
Total Direct Award Programs: Japan US Friendship Commission				14,695
United States Institute of Peace				
Annual Grant Competition				
ISLAMIC EDUCATION AND POLITICAL MOBILIZATIONS IN AFRICA	91.001	USIP SG-201-05F		17,878
MAKING AND COMMITTING TO PEACE: POLITICAL VULNERABILITY AND CIVIL WAR RESOLUTIONS	91.001	USIP #052-07F		10,014
Total Direct Award Programs: United States Institute of Peace				27,892
Nuclear Regulatory Commission				
U. S. Nuclear Regulatory Commission Nuclear Education Grant Program				
WEB-BASED EDUCATIONAL PROGRAM FOR NUCLEAR INDUSTRY PERSONNEL: RADIOBIOLOGY, RADIATION PROTECTION	77.006	NURC NRC-38-08-925		74,412
Total Direct Award Programs: Nuclear Regulatory Commission				74,412

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 No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Pass-through Awards				
Social Secuirty Administration				
Social Security_Research and Demonstration				
UNIVERSITY OF MICHIGAN	96.007	UMICHHG 300783654UM0	SSA10P98362.505	73,864
Total Pass-through Programs: Social Secuirty Administration				73,864
Central Intelligence Agency				
BBN SYSTEMS AND TECHNOLOGIES	13.000	BBN #9500007962	CIA 2004H933400	39,867
Total Pass-through Programs: Central Intelligence Agency				39,867
Department of Homeland Security				
DARTMOUTH COLLEGE	97.001	DARTC 5-36423.5740	2006-CS-001-000001	273,528
Total Pass-through Programs: Department of Homeland Security				273,528
Library of Congress				
Congressional Research Service	42.000	CRS# 08-08		3,536
Congressional Research Service	42.000	CRS #09-04		3,052
Total Pass-through Programs: Library of Congress				6,588
Total: Other Agencies / Gov't				510,846

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ARRA FUNDED PROGRAMS			Pass-through/Contract Number	Expenditures
Federal Grantor / Pass-through Grantor	CFDA No	Project No.		
National Institute of Health				
Direct Awards				
National Institute on Aging				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA FUNCTIONAL DATA ANALYSIS OF LONGITUDINALLY MEASURED GENETIC TRAITS	93.701	1 R03 AG031113-01A2		2,143
Total Direct Award Programs: National Institute on Aging				2,143
Nat. Inst. of Allergy & Infectious Disease				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA CROSS-TALK BETWEEN ESTROGEN AND T CELLS MEDIATED PATHWAYS IN LUPUS	93.701	1 R01 AI076474-01		3,534
Total Direct Award Programs: Nat. Inst. of Allergy & Infectious Disease				3,534
National Cancer Institute				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA COMBINED ULTRASOUND/MOLECULAR ANALYSIS OF TUMOR RESPONSE TO VEGF BLOCKADE	93.701	1 R21 CA139173-01		10,850
ARRA COMBINED ULTRASOUND/MOLECULAR ANALYSIS OF TUMOR RESPONSE TO VEGF BLOCKADE	93.701	1 R21 CA139173-01 KAN		2,931
ARRA GAB2 IN METASTATIC MELANOMA	93.701	1 R01 CA138678-01		12,546
ARRA MECHANISMS OF P53 ACTIVATION IN TUMOR SUPPRESSION	93.701	2 R01 CA098821-06A1		33,192
Total Direct Award Programs: National Cancer Institute				59,519
Nat. Inst. of Dental & Craniofacial Rsch.				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA REGULATION OF BIOFILM FORMATION BY TAD IN A. ACTINOMYCETEMCOMITANS	93.701	1 F31 DE019600-01		6,242
Total Direct Award Programs: Nat. Inst. of Dental & Craniofacial Rsch.				6,242
Nat. Inst. of Environmental Health Sciences				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA CHARACTERIZATION OF THE INNATE IMMUNE RESPONSE TO CRYSTALLINE SILICA	93.701	1 R21 ES016835-01		20,321

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
HEALTH EFFECTS AND GEOCHEMISTRY OF ARSENIC AND MANGANESE	93.701	3 P42 ES010349-09S1		5,961
Total Direct Award Programs: Nat. Inst. of Environmental Health Sciences				26,282
Nat. Inst. of Child Health & Human Dvlpt.				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA EEG SYNCHRONY, PERINATAL RISK AND OUTCOME: ANALYSIS OF CHIME DATA	93.701	1 R03 HD060671-01		9,474
Total Direct Award Programs: Nat. Inst. of Child Health & Human Dvlpt.				9,474
National Heart, Lung, & Blood Institute				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA REGULATION OF APOB SECRETION IN INBRED MOUSE STRAINS	93.701	3 R01 HL062583-08S1		1,032
Total Direct Award Programs: National Heart, Lung, & Blood Institute				1,032
Nat. Inst. of Neurological Disorder & Stroke				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA REGULATION OF CYTOSOLIC DOPAMINE BY CA2+ IN VENTRAL MIDBRAIN NEURONS	93.701	1 R03 NS064373-01		1,403
Total Direct Award Programs: Nat. Inst. of Neurological Disorder & Stroke				1,403
National Library of Medicine				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA INTEGRATED DISCOVERY AND HYPOTHESIS TESTING OF NEW ASSOCIATIONS IN RARE DISEASES	93.701	1 R01 LM010140-01		3,125
Total Direct Award Programs: National Library of Medicine				3,125
Nat. Inst. on Alcohol Abuse & Alcoholism				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA ALCOHOL IN AVIATION AND MOTOR CARRIERS	93.701	3 R01 AA009963-15S2		1,553
Total Direct Award Programs: Nat. Inst. on Alcohol Abuse & Alcoholism				1,553
National Institute on Drug Abuse				
TRANS-NIH RECOVERY ACT RESEARCH SUPPORT				
ARRA BIOBEHAVIORAL ASSESSMENT OF STRESS IN ADOLESCENT PREGNANCY: PARINATAL OUTCOMES	93.701	1 R01 MH077144-01A2		18,347
ARRA DEVELOPMENT OF 18F-LABELED AGONIST PET PROBES FOR QUANTIFYING 5-HT1A RECEPTORS	93.701	1 R21 MH085227-01		21,784
Total Direct Award Programs: National Institute on Drug Abuse				40,131

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 No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Total: National Institute of Health				154,438
Grand Total: Department of Health & Human Services				154,438
National Science Foundation				
Direct Awards				
National Science Foundation				
TRANS-NSF RECOVERY ACT RESEARCH SUPPORT				
ARRA CAREER: SELF-ASSEMBLY IN TWO AND THREE DIMENSIONS: FROM CRYSTAL TO SURFACE DESIGN AND BACK	47.082	DMR-0846426		49,261
ARRA CAREER: THE CHEMISTRY AND BIOLOGY OF HALOGENATED NATURAL PRODUCTS	47.082	CHE-0844593		33,236
ARRA CATEGORIFICATION OF QUANTUM GROUPS	47.082	DMS-0855713		13,648
ARRA COMMUNITY-PARTNERED REPATRIATION OF INUPIAT MUSIC	47.082	ARC-0939905		3,886
ARRA ICE SHEET DYNAMICS AND PROCESSES ALONG THE WEST ANTARCTIC CONTINENTAL SHELF	47.082	ANT-0838735		18,297
ARRA RAPID: DEEP SEISMIC INVESTIGATION OF SUMATRAN SUBDUCTION ZONES SEISMIC GAP	47.082	OCE-0938221		8,285
Total Direct Award Programs: National Science Foundation				126,613
Total: National Science Foundation				126,613
Department of Energy				
Direct Awards				
Department of Energy				
Office of Science Financial Assistance Program				
ARRA REDEFINING PHOTOVOLTAIC EFFICIENCY THROUGH MOLECULE-SCALE CONTROL	81.049	DOE CU08-9796	OSG	3,918
Total Direct Award Programs: Department of Energy				3,918
Total: Department of Energy				3,918
Total: ARRA FUNDED PROGRAMS				284,969

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Total: RESEARCH & DEVELOPMENT CLUSTER including ARRA Funded Programs				<u>532,291,667</u>

STUDENT FINANCIAL ASSISTANCE CLUSTER

Department of Health & Human Services
Direct Awards

Health Resources & Services Admin-BHP

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Scholarships for Health Professions Students from Disadvantaged Backgrounds				
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08 HP09516-01-00 DEN		163,333
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08 HP09516-01-00 MSP		163,333
SCHOLARSHIPS FOR DISADVANTAGED STUDENTS	93.925	1 T08 HP09516-01-00 MED		72,622
Total Direct Award Programs: Health Resources & Services Admin-BHP				399,288
Total: Department of Health & Human Services				399,288

National Institute of Health

Pass-through Awards

National Heart, Lung, & Blood Institute

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	93.837	UNC-CH N01-HC-65233		68,822
Total Pass-through Programs: National Heart, Lung, & Blood Institute				68,822
Total: National Institute of Health				68,822

Department of Education

Direct Awards

Department of Education

Federal Supplemental Educational Opportunity Grants

FSEOG 2007-2008 --ENGINEERING STUDIES	84.007	DE-SEOG 07/08	A	1,021
SEOG 2008/2009 - ENGINEERING STUDIES	84.007	DE-SEOG 08/09	A	898,153
SEOG 2008/2009-GENERAL STUDIES	84.007	DE-SEOG 08/09	B	619,740
SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM 2008/2009	84.007	DE-SEOG 08/09		1,140,256

Federal Work-Study Program

ACADEMY OF AMERICAN POETS	84.033	DE-438-002707	053	7,474
ACADEMY OF AMERICAN POETS	84.033	DE-438-002707	053	-1,166
AMERICAN SOCIAL HISTORY PRODUCTIONSWE CARE MEDIA SVCS	84.033	DE-438-002707	080	756
ANTHROPOLOGY	84.033	DE-438-002707	003	54,915
ARCHITECTURAL RESTORATION TRAINING (RESTORE)	84.033	DE-438-002707	109	416
ARCHITECTURAL RESTORATION TRAINING (RESTORE)	84.033	DE-438-002707	109	-163
ART HISTORY & ARCHAEOLOGY	84.033	DE-438-002707	009	146,666

The Trustees of Columbia University in the City of New York
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For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
ASTRONOMY	84.033	DE-438-002707	023	22,000
BARNARD LIBRARY MEDIA SERVICES	84.033	DE-438-002707	074	636
BARNARD MINOR LATHAM THEATER	84.033	DE-438-002707	043	2,606
BARNARD MINOR LATHAM THEATER	84.033	DE-438-002707	043	-1,124
BIOLOGICAL SCIENCES	84.033	DE-438-002707	024	14,664
CHEMISTRY	84.033	DE-438-002707	025	43,992
CLASSICS	84.033	DE-438-002707	014	18,332
COMMUNITY IMPACT/VIRTUAL Y/AMERICA READS PROGRAM	84.033	DE-438-002707	062	23,746
DCAS/PUBLIC SERVICE CORPORATION	84.033	DE-438-002707	002	2,001
DEMOCRACY PREP CHARTER SCHOOL	84.033	DE-438-002707	136	-202
DOCTORS WITHOUT BORDERS	84.033	DE-438-002707	096	-542
EAST ASIAN LANGUAGES & CULTURES	84.033	DE-438-002707	010	3,667
ECONOMICS	84.033	DE-438-002707	004	21,996
ENGINEERING GRADUATE TRANSFERS	84.033	DE-438-002707	031	31,981
ENGLISH & COMPARATIVE LITERATURE	84.033	DE-438-002707	011	176,817
FEDERAL WORK STUDY (FWS 2006 - 2007)	84.033	DE-438-002707	PRI	493,083
FEDERAL WORK STUDY (FWS) 2007-2008 - COLUMBIA COLLEGE	84.033	DE-438-002707	A1	1,000
FEDERAL WORK STUDY PROGRAM 2007-2008	84.033	DE-438-002707	PRI	-493,083
FEDERAL WORK STUDY PROGRAM 2008-2009	84.033	DE-438-002707		504,208
FRENCH & ROMANCE PHILOLOGY	84.033	DE-438-002707	012	22,659
GEOLOGICAL SCIENCES	84.033	DE-438-002707	026	73,332
GERMANIC LANGUAGES	84.033	DE-438-002707	013	14,664
HISTORY	84.033	DE-438-002707	006	91,663
HUMAN RIGHTS WATCH	84.033	DE-438-002707	099	840
HUMAN RIGHTS WATCH	84.033	DE-438-002707	099	-383
ITALIAN	84.033	DE-438-002707	015	21,998
JUMPSTART/AMERICA READS	84.033	DE-438-002707	063	7,288
LANDMARK WEST	84.033	DE-438-002707	050	712
LANDMARK WEST	84.033	DE-438-002707	050	-850
MATHEMATICS	84.033	DE-438-002707	028	29,328
METROPOLITAN MUSEUM OF ART	84.033	DE-438-002707	065	5,396
MIDDLE EAST LANGUAGES & CULTURES	84.033	DE-438-002707	017	43,992
MOUNT SINAI DEPT OF GENETICS AND GENOMIC SCIENCES	84.033	DE-438-002707	128	1,588
MUSIC	84.033	DE-438-002707	018	65,988
NEW YORK CARES, INC.	84.033	DE-438-002707	136	605
PEACE GAMES	84.033	DE-438-002707	137	1,865
PHILOSOPHY	84.033	DE-438-002707	019	14,664
PHYSICS	84.033	DE-438-002707	029	44,000
POETRY SOCIETY OF AMERICA	84.033	DE-438-002707	057	4,091
POETRY SOCIETY OF AMERICA	84.033	DE-438-002707	057	-316

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, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>	
POLITICAL SCIENCE	84.033	DE-438-002707	007	80,652	
PSYCHOLOGY	84.033	DE-438-002707	030	27,702	
PUBLIC INTEREST PROJECTS, INC.	84.033	DE-438-002707	129	-752	
RELIGION	84.033	DE-438-002707	020	33,001	
RESERVED	84.033	DE-438-002707	037	-746	
RIVERSIDE LANGUAGE PROGRAM	84.033	DE-438-002707	046	2,190	
RIVERSIDE LANGUAGE PROGRAM	84.033	DE-438-002707	046	-205	
RIVERSIDE SYMPHONY	84.033	DE-438-002707	052	619	
RIVERSIDE SYMPHONY	84.033	DE-438-002707	052	-148	
SAFE HORIZONS INC.	84.033	DE-438-002707		-245	
SAUTI YETU CENTER FOR AFRICIAN WOMEN	84.033	DE-438-00270	133	-487	
SCHOOL OF DENTAL & ORAL SURGERY	84.033	DE-438-002707	036	20,000	
SLAVIC LANGUAGES	84.033	DE-438-002707	021	33,326	
SOCIOLOGY	84.033	DE-438-002707	008	21,998	
SPANISH & PORTUGUESE	84.033	DE-438-002707	022	8,532	
SPECTATOR	84.033	DE-438-002707	140	690	
STATISTICS	84.033	DE-438-002707	027	21,996	
TEACHERS' COLLEGE BIO-BEHAVIORAL SCIENCE	84.033	DE-438-002707	132	546	
TEACHERS COLLEGE BIO-BEHAVORIAL SCIENCE	84.033	DE-438-002707	134	-404	
THE 92ND STREET Y	84.033	DE-438-002707	060	3,124	
THE 92ND STREET Y	84.033	DE-438-002707	060	-368	
THE FOUNDATION FOR CULTURAL REVIEW / NEW CRITERION	84.033	DE-438-002707	056	2,246	
THE FOUNDATION FOR CULTURAL REVIEW / NEW CRITERION	84.033	DE-438-002707	056	-201	
THE MUSEUM OF MODERN ART	84.033	DE-438-002707	088	1,611	
UNIVERSITY DEPARTMENT	84.033	DE-438-002707	001	2,252,950	
UNIVERSITY DEPARTMENT	84.033	DE-438-002707	001	292	
WORLD MONUMENTS FUND	84.033	DE-438-002707	138	2,999	
Federal Pell Grant Program					
PELL GRANT PROGRAM 2007/2008 - COLUMBIA COLLEGE	84.063	DE-PELL 07/08 PR	PR	5,890	
PELL GRANT PROGRAM 2007/2008 - COLUMBIA COLLEGE	84.063	DE-PELL 07/08	A	418	
PELL GRANT PROGRAM 2007/2008 - ENGINEERING	84.063	DE-PELL 07/08	B	-25,960	
PELL GRANT PROGRAM 2007/2008 - GENERAL STUDIES	84.063	DE-PELL 07/08 C	C	-1,078	
PELL GRANT PROGRAM 2008/2009-COLUMBIA COLLEGE	84.063	DE-PELL 08-09	A	1,946,887	
PELL GRANT PROGRAM 2008/2009-ENGINEERING	84.063	DE-PELL 08-09	B	796,870	
PELL GRANT PROGRAM 2008/2009-GENERAL STUDIES	84.063	DE-PELL 08-09	C	1,619,043	
Academic Competitiveness Grants					
ACG GRANT PROGRAM 2007-2008 (ENGINEERING)	84.375	DE	ACG-07/08	102	-750
FEDERAL ACADEMIC COMPETITIVE GRANT (ACG 2007-2008)	84.375	DE	ACG-07/08	101	-1,300

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

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
FEDERAL ACADEMIC COMPETITIVE GRANT (ACG 2008-2009)-COLUMBIA COLLEGE	84.375	DE ACG-08/09101		174,975
FEDERAL ACADEMIC COMPETITIVE GRANT (ACG 2008-2009)-ENGINEERING	84.375	DE ACG-08/09102		56,050
National Science and Mathematics Access to Retain Talent (SMART) Grants				
SMART GRANT PROGRAM 2007-2008 -- COLUMBIA COLLEGE	84.376	DE SMART 07/08101		-1,505
SMART GRANT PROGRAM 2007-2008 --GENERAL STUDIES	84.376	DE SMART 07/08103		-8,000
SMART GRANT PROGRAM 2008-2009-COLUMBIA COLLEGE	84.376	DE SMART 08/09101		232,000
SMART GRANT PROGRAM 2008-2009-ENGINEERING	84.376	DE SMART 08/09102		150,000
SMART GRANT PROGRAM 2008-2009-GENERAL STUDIES	84.376	DE SMART 08/09103		80,000
Total Direct Award Programs: Department of Education				11,711,428
Total: Department of Education				11,711,428
Total: STUDENT FINANCIAL ASSISTANCE CLUSTER				12,179,538

OTHER PROGRAMS - International Center for AIDS Care and Treatment Programs (ICAP)

Department of Health & Human Services
Direct Awards

Center for Disease Control

HIV Demonstration, Research, Public and Professional Education Projects

PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-05S9	2,552,577
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-05SC9	1,454,995
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-06S9	738,309
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - COTE D'IVOIRE	93.941	5 U62 PS223540-06SC9	94,515
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-05SC6	4,839,041
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-05S6	3,230,283
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 PS223540-06S6	204,456
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - ETHIOPIA	93.941	5 U62 CCU223540-04S6	59,225
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-05SC2	3,063,132
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-05S2	2,169,534
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-06S2	200,278
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 PS223540-06SC2	150,047
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 CCU223540-04S2	59,234
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - KENYA	93.941	5 U62 CCU223540-04SC2	2,130
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-05SC3	9,294,485
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-05S3	4,731,351

The Trustees of Columbia University in the City of New York

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</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 PS223540-06 S3		1,488,454
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 PS223540-06 SC3		613,321
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - MOZAMBIQUE	93.941	5 U62 CCU223540-04 S3		315
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NEW YORK	93.941	5 U62 PS223540-05 SC1		6,247,554
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NEW YORK	93.941	5 U62 PS223540-06 SC1		3,243,052
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-05 SC8		15,290,968
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-05 S8		2,817,780
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 CCU223540-03 S8		440,901
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-06 SC8		341,985
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 PS223540-06 S8		235,282
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NIGERIA	93.941	5 U62 CCU223540-04 SC8		-162,884
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - NY	93.941	5 U62 CCU223540-04 SC1		-486,461
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-05 S1		5,637,421
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-05		1,945,664
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-06 S1		383,959
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 PS223540-06		360,144
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 CCU223540-04 S S1		50,200
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - RWANDA	93.941	5 U62 CCU223540-04		-9,812
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-05 SC4		7,494,126
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-05 S4		5,041,469
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-06 SC4		895,618
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 PS223540-06 S4		387,979
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - SOUTH AFRICA	93.941	5 U62 CCU223540-04 S4		166,960
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-05 SC7		5,664,896
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-05 S7		3,651,942
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-06 S7		428,030
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 PS223540-06 SC7		423,926
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 CCU223540-04 S7		57,788
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - TANZANIA	93.941	5 U62 CCU223540-04 SC7		642
PRESIDENTIAL EXPANSION PROJECT FOR AIDS RELIEF - UNICEF	93.941	5 U62 CCU223540-04 SC5		81
PRESIDENTIAL EXPNSN PROJECT FOR AIDS RELIEF - UNICEF KENYA	93.941	5 U62 PS223540-05 SP2		3,131,696
PRESIDENTIAL EXPNSN PROJECT FOR AIDS RELIEF - UNICEF NIGERIA	93.941	5 U62 PS223540-05 SP8		3,124,530
PRESIDENTIAL EXPNSN PROJECT FOR AIDS RELIEF - UNICEF S. AFRICA	93.941	5 U62 PS223540-05 SP4		1,709,886
SUPPORT FOR HIGH-QUALITY HIV CARE TREATMENT ACTIVITIES IN EASTERN KENYA	93.941	CDC 200-2007-23654		77,221
SUPPORT FOR HIGH-QUALITY HIV CARE TREATMENT ACTIVITIES IN EASTERN KENYA - OFF SITE	93.941	CDC 200-2007-23654 SC2		821,555
SUPPORT FOR HIGH-QUALITY HIV CARE TREATMENT ACTIVITIES IN EASTERN KENYA - ON SITE	93.941	CDC 200-2007-23654 SC1		584,653
				104,944,433
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		663,793
COLUMBIA HIV/AIDS RESPONSE TEAM - MOZAMBIQUE	93.943	5 U62 PS222407-05 MO1		116,631

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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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
COLUMBIA HIV/AIDS RESPONSE TEAM - NEW YORK	93.943	5 U62 PS222407-05		274,843
COLUMBIA HIV/AIDS RESPONSE TEAM - NEW YORK	93.943	5 U62 PS222407-05	SC1	26,769
COLUMBIA HIV/AIDS RESPONSE TEAM - RWANDA	93.943	5 U62 PS222407-05	RWA	1,604,384
COLUMBIA HIV/AIDS RESPONSE TEAM - RWANDA	93.943	5 U62 PS222407-05	RW1	707,176
COLUMBIA HIV/AIDS RESPONSE TEAM - SOUTH AFRICA	93.943	U62 /CCU222407-05	SA1	13,514
COLUMBIA HIV/AIDS RESPONSE TEAM - TANZANIA	93.943	5 U62 PS222407-05	TA1	429,465
COLUMBIA HIV/AIDS RESPONSE TEAM - TANZANIA	93.943	5 U62 PS222407-05	TAN	337,856
COLUMBIA HIV/AIDS RESPONSE TEAM - ZAMBIA	93.943	5 U62 PS222407-05	ZAM	516,370
COLUMBIA HIV/AIDS RESPONSE TEAM - ZAMBIA	93.943	5 U62 PS222407-05	ZA1	12,372
				4,703,173
Total Direct Award Programs: Center for Disease Control				109,647,606
Total: Department of Health & Human Services				109,647,606

Department of State
Direct Awards

Department of State

MALARIA LABORATORY DIAGNOSIS AND MONITORING PROJECT - NY	98.000	AID 663-A-00-08-0043	SC1	61,370
MALARIA LABORATORY DIAGNOSIS AND MONITORING PROJECT - OFFSITE	98.000	AID 663-A-00-08-0043	SC2	34,825
MALARIA LABORATORY DIAGNOSIS AND MONITORING PROJECT - ONSITE	98.000	AID 663-A-00-08-0043		5,368
MTCT - A PROPOSAL TO THE US AGENCY FOR INTERNATIONAL DEVELOPMENT	98.000	AID GP0-A-00-03-0000		-441,629
MTCT - A PROPOSAL TO THE US AGENCY FOR INTERNATIONAL DEVELOPMENT - CAMEROON	98.000	AID GP0-A-00-03-0000	S12	114,588
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/ANGOLA	98.000	AID GP0-A-00-03-0000	S15	61,998
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/LESOTHO	98.000	AID GP0-A-00-03-0000	SC3	926,632
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/LESOTHO	98.000	AID GP0-A-00-03-0000	SC4	808,711
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	311,922
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/NIGERIA	98.000	AID GP0-A-00-03-0000	SC5	304,730
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/NIGERIA UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT	98.000	AID GP0-A-00-03-0000	SC2	-20,731
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/RWANDA	98.000	AID GP0-A-00-03-0000	S13	524,776
MTCT - A PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/S. AFRICA	98.000	AID GP0-A-00-03-0000	SC6	1,074,727
MTCT - PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/SWAZILAND	98.000	AID GP0-A-00-03-0000	SC8	807,876
MTCT - PROPOSAL TO THE US AGENCY FOR INTL DEVELOP/SWAZILAND	98.000	AID GP0-A-00-03-0000	SC9	491,675
				5,066,838
Total Direct Award Programs: Department of State				5,066,838
Total: Department of State				5,066,838
Total: OTHER PROGRAMS (ICAP)				114,714,444

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OTHER PROGRAMS

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Department of Health & Human Services				
Direct Awards				
Health Resources & Services Admin				
Maternal and Child Health Federal Consolidated Programs				
GENETIC SERVICES PROJECT - SICKLE CELL MEDICAL HOMES FOR HARLEM & NORTHERN MANHATTAN	93.110	1 H46MC09227-01		164,487
GENETIC SERVICES PROJECT - SICKLE CELL MEDICAL HOMES FOR HARLEM & NORTHERN MANHATTAN	93.110	5 H46 MC09227-02-00		9,222
HEALTHY TOMORROWS PARTNERSHIP FOR CHILDREN PROGRAM	93.110	5 H17 MC07865-02-00		43,459
HEALTHY TOMORROWS PARTNERSHIP FOR CHILDREN PROGRAM	93.110	5 H17 MC07865-03-00		16,752
HEALTHY TOMORROWS PARTNERSHIP FOR CHILDREN PROGRAM	93.110	1 H17 MC07865-01-00		<u>1,124</u>
				235,0444
Emergency Medical Services for Children				
EMERGENCY MEDICAL SERVICES FOR CHILDREN NETWORK DEVELOPMENT DEMONSTRATION PROJECT (EMSC-NDDP)	93.127	5 U03 MC00007-05-00		496,185
Healthy Communities Access Program				
COMMUNITY ACCESS PROGRAM	93.252	1 G92A403996-01-		-3,253
COMMUNITY ACCESS PROGRAM	93.252	5 G92CS03996-02-		<u>-9,417</u>
				-12,670
Ryan White HIV/AIDS Dental ReimbursementsCommunity Based Dental Partnership				
COMMUNITY BASED DENTAL PARTNERSHIP PROGRAM: DENTISTRY WITH A HUMAN FACE	93.924	5 H65 HA00014-06		154,045
COMMUNITY BASED DENTAL PATNERSHIP	93.924	2 H65HA00014-07-00		<u>154,304</u>
				308,349
Healthy Start Initiative				
ELIMINATING DISPARITIES IN PERINATAL HEALTH	93.926	6 H49 MC00133-08-00		952,079
ELIMINATING DISPARITIES IN PERINATAL HEALTH	93.926	6 H49 MC00133-07-01		120,489
ELIMINATING DISPARITIES IN PERINATAL HEALTH: DOWNSTATE NEW YORK HEALTHY START	93.926	2 H49 MC00133-09-00		<u>30,517</u>
				1,103,085
Total Direct Award Programs: Health Resources & Services Admin				<u>2,129,993</u>
Health Resources & Services Admin-BHP				
Ryan White HIV/AIDS Dental ReimbursementsCommunity Based Dental Partnership				
RYAN WHITE HIV/AIDS DENTAL REIMBURSEMENT PROGRAM	93.924	BHP CU08-3911		148,484
Total Direct Award Programs: Health Resources & Services Admin-BHP				<u>148,484</u>
Center for Disease Control				
Global AIDS				
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE FEDERAL REPUBLIC OF NIGERIA	93.067	1 U2G PS001060-01 S1		143,141

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE FEDERAL REPUBLIC OF NIGERIA	93.067	1 U2G PS001060-01	S2	31,903
IMPLEMENTATION OF PROGRAMS FOR THE PREVENTION, CARE AND TREATMENT OF HIV/AIDS IN THE FEDERAL REPUBLIC OF NIGERIA	93.067	1 U2G PS001060-01		30,002
IMPLEMENTING COMPREHENSIVE HIV PREVENTION SERVICES FOR INJECTING DRUG USERS AND OTHER MOST AT-RISK POPULATIONS	93.067	1 U2G PS000950-01	SC1	53,643
IMPLEMENTING COMPREHENSIVE HIV PREVENTION SERVICES FOR INJECTING DRUG USERS AND OTHER MOST-AT-RISK POPULATIONS	93.067	1 U2G PS000950-01	SC2	160,559
IMPLEMENTING COMPREHENSIVE HIV PREVENTION SERVICES FOR INJECTING DRUG USERS AND OTHER MOST-AT-RISK POPULATIONS	93.067	1 U2G PS000950-01		28,952
STRENGTHEN MOH & DISTRICT HEALTH TEAMS TB/HIV PGRMS IN RWANDA	93.067	1 U2G PS001161-01		52,305
STRENGTHEN MOH & DISTRICT HEALTH TEAMS TB/HIV PRGMS IN RWANDA (OFFSITE)	93.067	1 U2G PS001161-01	S1	71,705
STRENGTHEN MOH & DISTRICT HEALTH TEAMS TB/HIV PRGMS IN RWANDA (ONSITE)	93.067	1 U2G PS001161-01	S2	252,318
SUPPORT IMPLEMENTATION & EXPANSION OF HIGH QUALITY HIV CARE, PREVENTION AND TREATMENT ACTIVITIES IN KENYA UNDER PEPFAR	93.067	1 U2G PS001314-01	S2	191,995
SUPPORT IMPLEMENTATION & EXPANSION OF HIGH QUALITY HIV CARE, PREVENTION AND TREATMENT ACTIVITIES IN KENYA UNDER PEPFAR	93.067	1 U2G PS001314-01		63,632
SUPPORT IMPLEMENTATION AND EXPANSION OF HIGH QUALITY HIV CARE, PREVENTION AND TREATMENT ACTIVITIES IN KENYA UNDER PEPFAR	93.067	1 U2G PS001314-01	S1	132,906
TECHNICAL ASSISTANCE IN SUPPORT OF HIV PREVENTION, CARE AND TREATMENT PROGRAMS IN SUPPORT OF THE PEPFAR	93.067	1 U2G PS001537-01		759
				<u>1,213,820</u>
Human Health Studies_Applied Research and Development				
TUBERCULOSIS TRIALS CONSORTIUM	93.206	5 B02 CDC 200-2003-0 S1		71,784
Centers for Disease Control and Prevention_Investigations and Technical Assistance				
TUBERCULOSIS TRIALS CONSORTIUM	93.283	3 N01 CDC 200-1999-0		315,478
Total Direct Award Programs: Center for Disease Control				<u><u>1,601,082</u></u>
Other DHHS (Non-NIH)				
Comprehensive Community Mental Health Services for Children with Serious Emotional Disturbances (SED)				
SUPPORT FOR PROJECT LAUNCH	93.104	HHSP233200800651P		24,788
Maternal and Child Health Federal Consolidated Programs				
PUBLIC POLICY ANALYSIS AND EDUCATION CENTER OF INFANT AND EARLY CHILDHOOD HEALTH	93.110	MC05056-04-00		310,571
PUBLIC POLICY ANALYSIS AND EDUCATION CENTER OF INFANT AND EARLY CHILDHOOD HEALTH	93.110	MC05056-03-00		9,662
				320,233
Total Direct Award Programs: Other DHHS (Non-NIH)				<u><u>345,021</u></u>
Pass-through Awards				
Health Resources & Services Admin				
Model State-Supported Area Health Education Centers				
MEDICAL & HEALTH RESEARCH ASSOC. OF NEW YORK CITY, INC.	93.107	MHRA 07-CU-01		20,727
Emergency Medical Services for Children				
CHILDREN'S RESEARCH INSTITUTE AT CHILDREN'S NATIONAL MEDICAL CE	93.127	CRICNMC 4518-08-02	1 U07 MC09174-01-00	9,952
UNIVERSITY OF TEXAS, SOUTHWESTERN MEDICAL CENTER	93.127	GMO-801116	H34 MC08509	9,325
				19,277

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National Bioterrorism Hospital Preparedness Program JACOBI HOSPITAL CENTER	93.889	JACOBH PT07-1762	HSRA	85,551
HIV Emergency Relief Project Grants	93.914	SHRI CU08-3934		40,064
	93.914	PUBHS 93-EVL-4645		213,048
NEW YORK STATE DEPARTMENT OF HEALTH AIDS INSTITUTE	93.914	SHRI 002089-06	93SEC4624M	63,568
New York State Health Research Incorporated	93.914	SHRI 003603-01		52,868
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.914	SHRI 002089-06	5 R01 93SEC4624M	<u>-10,613</u> 358,935
Maternal and Child Health Services Block Grant to the States	93.994	SDH C019041		78,282
	93.994	SDH C019041		0
	93.994	NYSDOH C019458		21,504
	93.994	SDH C021666		4,965
NEW YORK STATE DEPARTMENT OF HEALTH	93.994	NYSDOH C-023845	HHS	<u>13,818</u> 118,569
Total Pass-through Programs: Health Resources & Services Admin				603,059
Center for Disease Control				
NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGINE	93.000	NYCDOHMH CU52300001	1 CDC	271,959
NEW YORK CITY POLICE FOUNDATION	93.000	NYCPFDN CU08-4283		182,382
NEW YORK CITY POLICE FOUNDATION	93.000	NYCPFDN CU52282602		46,927
NEW YORK STATE HEALTH RESEARCH INCORPORATED	93.000	SHRI 1765-05	CCU22201210	-18,343
Global AIDS				
TULANE UNIVERSITY	93.067	TULANE CU08-9856	U62/CCU622410-05W1	131,705
Project Grants and Cooperative Agreements for Tuberculosis Control Programs				
DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, WA	93.116	DVAMC V688P-2933	2 R01 CDC	111,180
Centers for Research and Demonstration for Health Promotion and Disease Prevention				
PUBLIC HEALTH SOLUTIONS	93.135	PUBHS 08-CU-01	U90/CCU221298	26,086
Trauma Care Systems Planning and Development				
NEW YORK ACADEMY OF MEDICINE	93.952	NYAM CU08-7393	5 U01 PS000698-02	37,644

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

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Total Pass-through Programs: Center for Disease Control				789,540
Substance Abuse & MHS Admin				
WESTCHESTER COUNTY DEPARTMENT OF HEALTH	93.000	WCDH CU52210801	MH T116540-01	5,501
Total Pass-through Programs: Substance Abuse & MHS Admin				5,501
Other DHHS (Non-NIH)				
	93.551	ALIANZA CU08-4413	*DHHS/AIA	65,257
	93.778	SDH C-019882		15,148
	93.778	SDH C-019882		<u>6,395</u>
				21,543
Total Pass-through Programs: Other DHHS (Non-NIH)				86,800
Total: Department of Health & Human Services				5,709,480
National Institute of Health				
Direct Awards				
National Heart, Lung, & Blood Institute				
Cardiovascular Diseases				
NETWORK FOR CARDIOTHORACIC SURGICAL INVESTIGATIONS IN CARDIOVASCULAR MEDICINE	93.837	5 U01 HL088951-02		376,009
Total Direct Award Programs: National Heart, Lung, & Blood Institute				376,009
Nat. Inst. of Neurological Disorder & Stroke				
NORTH AMERICAN SITES	93.000	5 U01 NS043975-09	NAS	744,578
Total Direct Award Programs: Nat. Inst. of Neurological Disorder & Stroke				744,578
Pass-through Awards				
National Institute on Aging				
Special Programs for the Aging_Title III, Part D_Disease Prevention and Health Promotion Services				
CLINICAL - UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.043	CUCSD ADC-008 10-00- DHA	1 R01 AG	5,075

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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Aging Research				
CLINICAL - UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	CUCSD ADC-008 10-00- TPA	5 U01 AG10483	8,720
CLINICAL - UNIVERSITY OF CALIFORNIA, SAN DIEGO	93.866	CUCSD ADC-008 10-00- BEL	5 U01 AG10483	<u>5,184</u>
				13,904
Total Pass-through Programs: National Institute on Aging				<u>18,979</u>
Nat. Inst. of Allergy & Infectious Disease				
IMMUNE TOLERANCE NETWORK				
	93.000	ITN10220-00SC	1 N01-AI-15416	22,531
Mental Health Research Grants				
SOCIAL AND SCIENTIFIC SYSTEMS, INCORPORATED	93.242	SSS CU5225602	5 U01 AI068632-02	102,323
Allergy, Immunology and Transplantation Research				
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC CU810177-01	U01 AI068614-03	35,364
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 0000654720	5 U01 AI1068614-04	97,187
FRED HUTCHINSON CANCER RESEARCH CENTER	93.855	FHCRC 000066153	5-U01 AI068614-03	<u>282,735</u>
				415,286
Microbiology and Infectious Diseases Research				
CLINICAL - SOCIAL & SCIENTIFIC SYSTEMS, INCORPORATED	93.856	CSCLSC AACTG.42.UICT	NIAID U01AI38858	10,911
CLINICAL - SOCIAL & SCIENTIFIC SYSTEMS, INCORPORATED	93.856	CSCLSC 200VC002	2U01-AI38858	<u>20,992</u>
				31,903
Total Pass-through Programs: Nat. Inst. of Allergy & Infectious Disease				<u>572,043</u>
National Cancer Institute				
NATIONAL CHILDHOOD CANCER FOUNDATION				
	93.395	NCCF 16485	U10 CA98543-05	-1
Cancer Biology Research				
CLINICAL - CANCER THERAPY & RESEARCH FDN. OF SW TEXAS	93.396	CCTRFST UCOPX4	5U10 CA-34729	6,471
Cancer Control				
UNIVERSITY OF TEXAS HEALTH SCIENCE CNTR AT SAN ANTONIO	93.399	CUTHSCSA CU800817	5 U01 CA37429	8,185
Total Pass-through Programs: National Cancer Institute				<u>14,655</u>

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Nat. Inst. of Child Health & Human Dvlpt.				
GEORGE WASHINGTON UNIVERSITY	93.000	GWU CU810171-01	U10 HD040485-09	133,962
Child Health and Human Development				
GEORGE WASHINGTON UNIVERSITY	93.865	GWU CU80049502	GOL U01 DK61055	103,915
Total Pass-through Programs: Nat. Inst. of Child Health & Human Dvlpt.				237,877
National Heart, Lung, & Blood Institute				
Lung Diseases				
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.838	*BWH CU80210201	5 U01 HL074227-05	340,505
BRIGHAM AND WOMEN'S HOSPITAL, INCORPORATED	93.838	BHW CU80203003	5 U10 HL074227-06	-24,722
Total Pass-through Programs: National Heart, Lung, & Blood Institute				315,783
Nat. Inst. of Neurological Disorder & Stroke				
MASSACHUSETTS GENERAL HOSPITAL				
	93.000	*MGH 80210401	5 R01 NS052592-03	23
Extramural Research Programs in the Neurosciences and Neurological Disorders				
MEDICAL UNIVERITY OF SOUTH CAROLINA	93.853	MUSC08-066	1 U01 NS058728-01	3,155
UNIVERSITY OF TEXAS HEALTH SCIENCE CNTR AT SAN ANTONIO	93.853	UTHSCSA 126155-24	2 U01 NS0385239-09A1	59,448
Total Pass-through Programs: Nat. Inst. of Neurological Disorder & Stroke				62,603
Total Pass-through Programs: Nat. Inst. of Neurological Disorder & Stroke				62,626
Nat. Inst. of Diabetes & Digestive & Kidney Diseases				
UNIVERSITY OF SOUTH FLORIDA				
	93.000	USF 6199-1144-00-D	HHSN267200800019C	9,988
Diabetes, Digestive, and Kidney Diseases				
UNIVERSITY OF SOUTH FLORIDA	93.847	USF 6119-1094-00-X-W NUT	5 U01 DK063790-07	3,410
UNIVERSITY OF SOUTH FLORIDA	93.847	USF 6119-1094-00-X-W	5 U01 DK063790-07	17,381
Total Pass-through Programs: Nat. Inst. of Diabetes & Digestive & Kidney Diseases				20,791
Total Pass-through Programs: Nat. Inst. of Diabetes & Digestive & Kidney Diseases				30,779
National Institute on Drug Abuse				
Mental Health Research Grants				
NEW YORK STATE RESEARCH FOUNDATION FOR MENTAL HYGIENE	93.242	SRFMH 903-1682A	1 R34 MH082654-01	29,041
Total Pass-through Programs: National Institute on Drug Abuse				29,041

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Other NIH				
JOSLIN DIABETES CENTER	93.000	JDBCTR 801978-01	1 U01 DK074556-01	295
Human Genome Research UNIVERSITY OF IOWA	93.172	UIO 1000609126-02	5 R01 HG 003330-03	9,284
Neurosciences and Neurological Disorders NEW YORK UNIVERSITY MEDICAL CENTER	93.853	NYUMC 04-0612	5 R01 NS051623-02	33,747
Total Pass-through Programs: Other NIH				43,326
Total: National Institute of Health				2,445,696
Grand Total: Department of Health & Human Services				8,155,176

National Science Foundation
Direct Awards

National Science Foundation
Mathematical and Physical Sciences

JOINT COLUMBIA-CUNY-NYU NUMBER THEORY SEMINAR	47.049	DMS-03-12270		3,622
Education and Human Resources INFORMATION TECHNOLOGY -- EVALUATING EDUCATION -- WHAT ARE WE MEASURING AND HOW?	47.076	REC-02-19347	A01	-30
Total Direct Award Programs: National Science Foundation				3,592
Total: National Science Foundation				3,592

Department of Energy
Direct Awards
Department of Energy

Office of Science Financial Assistance Program

A SYMPOSIUM IN HONOR OF PROFESSOR ERIC J. HALL ENTITLED "FROM BEANS TO GENES: A FORTY YEAR ODYSSEY	81.049	DE-FG02-08ER64703		29,253
Total Direct Award Programs: Department of Energy				29,253

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Pass-through Awards				
Department of Energy				
Office of Science Financial Assistance Program				
ARGONNE NATIONAL LABS	81.049	ARGNTL CU02770901	DOE	-13,359
Total Pass-through Programs: Department of Energy				-13,359
Total: Department of Energy				15,894
Department of Defense				
Direct Awards				
Department of the Navy				
Basic and Applied Scientific Research				
GS ADMINISTRATIVE SUPPORT ONR SERRANO COHORT 8	12.300	DNONR CU08-8680	GAS	90,015
GS ADMISSIONS ONR SERRANO COHORT 7	12.300	N00014-08-1-0214	GAD	3,783
GS ADMISSIONS ONR SERRANO COHORT 8	12.300	DN ONR CU08-8680		54,039
GS FINANCIAL AID ONR SERRANO COHORT 6	12.300	N00014-06-1-1097	GFA	81,832
GS FINANCIAL AID ONR SERRANO COHORT 7	12.300	N00014-08-1-0214	GFA	50,400
GS FINANCIAL AID ONR SERRANO COHORT 8	12.300	DNONR CU08-8680	GFA	96,598
GS INFO TECH ONR SERRANO COHORT 8	12.300	DN ONR CU08-8680	GIT	16,763
GS STUDENT SERVICES ONR SERRANO COHORT 7	12.300	*ONR CU02812001	GSS	677
GS STUDENT SERVICES ONR SERRANO COHORT 8	12.300	DN ONR CU08-8680	GSS	118,992
HOSTOS SUBCONTRACT ONR SERRANO COHORT 2	12.300	N00014-03-1-0986	GS3	-3,329
HOSTOS SUBCONTRACT ONR SERRANO COHORT 6	12.300	N00014-06-1-1097	HOS HOS	-9,951
HOSTOS SUBCONTRACT ONR SERRANO COHORT 8	12.300	N00014-08-1-1127	HOS	37,881
SIPA ADMISSIONS ONR SERRANO COHORT 8	12.300	DN ONR CU08-8680	SAD	9,697
SIPA FINANCIAL AID ONR SERRANO COHORT 8	12.300	DN ONR CU08-8680	SFA	6,927
SIPA STUDENT SERVICES ONR SERRANO COHORT 8	12.300	DN ONR CU08-8680	SSS	25,372
Total Direct Award Programs: Department of the Navy				579,696
Other DOD				
SUPPORT FOR PRESIDENT'S EMERGENCY PLAN FOR AIDS RELIEF (PEPFAR) FUNDED RENOVATIONS IN MOZAMBIQUE	12.000	DDEF N68171-07-1-000		199,861
Total Direct Award Programs: Other DOD				199,861
Total: Department of Defense				779,557

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Department of Education				
Pass-through Awards				
Department of Education				
Safe and Drug-Free Schools and Communities_National Programs				
	84.184	NYCBE CU02681501		45,844
Total Pass-through Programs: Department of Education				45,844
Total: Department of Education				45,844
Department of Agriculture				
Direct Awards				
Department of Agriculture				
Agricultural Research_Basic and Applied Research				
URBAN ENVIROMENTAL STEWARDSHIP PROJECT: UNDERSTANDING EMERGING FORMS OF CIVIC INNOVATION	10.001	SFES 06JV11242300158		4,478
Agricultural Market and Economic Research				
EVALUATION OF PATHOGENS AND PESTICIDES AFFECTING HONEY BEE HEALTH	10.290	USDA 58-1275-7-370		15,587
Total Direct Award Programs: Department of Agriculture				20,065
Pass-through Awards				
Department of Agriculture				
Agricultural and Rural Economic Research				
	10.250	UCR S-00000278	ERS 58-7000-7-0099	54,907
Total Pass-through Programs: Department of Agriculture				54,907
Total: Department of Agriculture				74,972

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Department of Interior					
Direct Awards					
Department of Interior					
Earthquake Hazards Reduction Program					
2006 USGS INTERGOVERNMENTAL PERSONNEL ACT FOR ROBERT WORREST	15.807	DI	CU02457102		2,758
Total Direct Award Programs: Department of Interior					2,758
Pass-through Awards					
Department of Interior					
Rivers, Trails and Conservation Assistance					
DEPARTMENT OF THE INTERIOR	15.921	DI	NPS H5284050018	DI N/A	14,660
Total Pass-through Programs: Department of Interior					14,660
Total: Department of Interior					17,418
Department of Justice					
Direct Awards					
Department of Justice					
Community Prosecution and Project Safe Neighborhoods					
EVALUATION OF PROJECT SAFE NEIGHBORHOODS/CHICAGO GUN PROJECT	16.609	DJ	106062		19,235
Total Direct Award Programs: Department of Justice					19,235
Total: Department of Justice					19,235
Department of State					
Direct Awards					
Department of State					
TIBETAN ECO TOURISM PROJECT	19.000	DS	SECAPE- 05GR144DT		13,795
TIBETAN ECOTOURISM TRAINING PROJECT YEAR 2	19.000	DS	SECAPE06GR150(CS)		25,187
GS ADMINISTRATIVE SUPPORT DOS SERRANO COHORT 8	19.202	DS	S-LMAQM-08-GR-092 GAS		65,995
GS ADMISSIONS DOS SERRANO COHORT 7	19.202	DS	SLMAQM-07-GR-200 GAD		5,007

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GS ADMISSIONS DOS SERRANO COHORT 8	19.202	DS SLMAQM-08-GR-092		38,519
GS FINANCIAL AID DOS SERRANO COHORT 3	19.202	DS SLMAQM-03-H-0096 GSS		-42,376
GS FINANCIAL AID DOS SERRANO COHORT 5	19.202	DS SLMAQM-05-GR-104 GFA		3,787
GS FINANCIAL AID DOS SERRANO COHORT 6	19.202	DS SLMAQM06GR176 GFA		50,400
GS FINANCIAL AID DOS SERRANO COHORT 7	19.202	DS SLMAQM-07-GR-200 GFA		90,251
GS FINANCIAL AID DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 GFA		114,622
GS INFO TECH DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 GIT		8,919
GS STUDENT SERVICES DOS SERRANO COHORT 5	19.202	DS SLMAQM-05-GR-104 GSS		4,303
GS STUDENT SERVICES DOS SERRANO COHORT 6	19.202	DS SLMAQM06GR176 GSS		178
GS STUDENT SERVICES DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 GSS		90,597
HOSTOS SUBCONTRACT DOS SERRANO COHORT 5	19.202	DS SLMAQM-05-GR-104 HOS		15,210
HOSTOS SUBCONTRACT DOS SERRANO COHORT 6	19.202	DS SLMAQM06GR176 HOS HOS		18,380
HOSTOS SUBCONTRACT DOS SERRANO COHORT 7	19.202	DS SLMAQM-07-GR-200 HOS		224,091
SIPA ADMISSIONS DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 SAD		7,106
SIPA FINANCIAL AID DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 SFA		5,081
SIPA STUDENT SERVICES DOS SERRANO COHORT 8	19.202	DS S-LMAQM-08-GR-092 SSS		<u>19,353</u>
				719,423,
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		505,031
Total Direct Award Programs: Department of State				<u>1,263,436</u>
Pass-through Awards				
Department of State				
USAID Foreign Assistance for Programs Overseas				
ACDI VOCA	98.001	ACDI AFPA000600140	AFP-A-00-03-00036-00	-53,254
USAID Development Partnerships for University Cooperation and Development				
RELIEF INTERNATIONAL	98.012	RI CU08-7845	AID267A00070050400	290,871
Total Pass-through Programs: Department of State				<u>237,617</u>
Total: Department of State				<u>1,501,053</u>
Department of Transportation				
Pass-through Awards				
Department of Transportation				
State and Community Highway Safety				
New York State Department of Motor Vehicles	20.600	SNYGTSC C-001711		42,728

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

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Total Pass-through Programs: Department of Transportation				42,728
Total: Department of Transportation				42,728
Environmental Protection Agency				
Direct Awards				
Environmental Protection Agency				
Science To Achieve Results (STAR) Fellowship Program				
MONITORING RESIDENTIAL EXPOSURE TO PYRETHROID INSECTICIDES DURING PREGNANCY IN NEW YORK CITY	66.514	EPA FP-91689801-0		8,427
Surveys, Studies, Investigations and Special Purpose Grants within the Office of the Administrator				
COLLECTION AND ANALYSIS OF RECYCLING DATA IN EPA REGION 9	66.610	EPA X1-96982901		-4,996
Total Direct Award Programs: Environmental Protection Agency				3,431
Total: Environmental Protection Agency				3,431
Federal Government				
Direct Awards				
Other Federal				
TROWBRIDGE SETTLEMENT BENEFITS FOR WKCR	99.999	GMISC CU026316		48,549
Total Direct Award Programs: Other Federal				48,549
Total: Federal Government				48,549
Nat. Endowment for the Arts & Humanities				
Direct Awards				
Nat. Endowment for the Arts & Humanities				
Promotion of the Arts_Grants to Organizations and Individuals				
COMPOSER PORTRAITS: AMERICAN MASTERS	45.024	NEA 08-3148-7279		15,000
Promotion of the Humanities_Division of Preservation and Access				
ENCYCLOPAEDIA IRANICA	45.149	NEH PM-50023-07		137,013
GRANTS TO PRESERVE AND CREATE ACCESS TO HUMANITIES COLLECTIONS - NY CHAMBER OF COMMERCE	45.149	NEH PC-50075-07		<u>98,792</u>
				235,805

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, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Promotion of the Humanities_Professional Development NEW PERSPECTIVES ON EARLY MODERN CHINA	45.163	NEH AZ-50012-07		8,256
Total Direct Award Programs: Nat. Endowment for the Arts & Humanities				259,061
Total: Nat. Endowment for the Arts & Humanities				259,061
Other Agencies / Gov't Direct Awards				
National Archives and Records Administration				
National Historical Publications and Records Grants THE SELECTED PAPERS OF JOHN JAY (YEAR 5)	89.003	NHPRC CU08-8269		152,129
Total Direct Award Programs: National Archives and Records Administration				152,129
Pass-through Awards				
College and University				
WGBH Educational Foundation	45.000	WGBH CU08-9908		92,233
Total Pass-through Programs: College and University				92,233
Total: Other Agencies / Gov't				244,362
Total: OTHER PROGRAMS				11,210,872

OTHER PROGRAMS (Other Sponsored Training)

Department of Health & Human Services
Direct Awards

Health Resources & Services Admin

Nurse Anesthetist Traineeships NURSE ANESTHETIST TRAINEESHIP	93.124	2 A22 HP00047-09-00		24,772
AIDS Education and Training Centers HARLEM PEER EDUCATOR TRAINING SITE	93.145	5 U20HA06172-04-00		328,488
HARLEM PEER EDUCATOR TRAINING SITE	93.145	5 U20 HRSA HA06172-0		231,327

The Trustees of Columbia University in the City of New York

Supplemental Schedule of Expenditures of Federal Awards

For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
HARLEM PEER EDUCATOR TRAINING SITE	93.145	5 U20 HRSA HA06172-0		11,140
HARLEM PEER EDUCATOR TRAINING SITE	93.145	1 U20 HRSA HA06172-0		547
NEW YORK/NEW JERSEY AIDS EDUCATION AND TRAINING CENTER	93.145	5 H4A HA 00071-05-02		334,709
REGIONAL AIDS ETC - NEW YORK/NEW JERSEY AIDS EDUCATION AND TRAINING CENTER	93.145	5 H4A HA00071-07-00		<u>2,991,900</u>
				3,898,117
Advanced Education Nursing Grant Program				
ADVANCED EDUCATION NURSING GRANTS	93.247	1 D09 HP09353-01-00		129,576
Public Health Training Centers Grant Program				
PUBLIC HEALTH TRAINING CENTERS	93.249	5 D20 HP00016-07-00		134,686
PUBLIC HEALTH TRAINING CENTERS	93.249	5 D20 HP00016-08-00		<u>132,190</u>
				266,876
Nurse Education, Practice and Retention Grants				
NURSE EDUCATION PRACTICE AND RETENTION	93.359	5 D11 HP07346-02-00		-11,110
Public Health Traineeships				
PUBLIC HEALTH TRAINEESHIP	93.964	5 A03 HP01173-13-00		107,377
Total Direct Award Programs: Health Resources & Services Admin				<u>4,415,602</u>
Center for Disease Control				
Innovations in Applied Public Health Research				
DOCTORAL DISSERTATION: THE EFFECTS OF PARENTAL WORK ON CHILD OBESITY	93.061	1 R36 DP001175-01		948
Centers for Disease Control and Prevention_Investigations and Technical Assistance				
CENTERS FOR PUBLIC HEALTH PREPAREDNESS	93.283	U90/CCU224241-05		742,033
PARENTAL INFLUENCES ON YOUNG ADULT SEXUAL RISK BEHAVIORS	93.930	1 R36 DP001161-01		8,049
Total Direct Award Programs: Center for Disease Control				<u>751,030</u>
Agency for Healthcare Research & Quality				
Research on Healthcare Costs, Quality and Outcomes				
DOCTORAL DISSERTATION: MEDICARE ADVANTAGE?	93.226	1 R36 HS016836-01A1		12,669
Total Direct Award Programs: Agency for Healthcare Research & Quality				<u>12,669</u>

Other DHHS (Non-NIH)

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, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Centers for Disease Control and Prevention_ Investigations and Technical Assistance				
CENTERS FOR PUBLIC HEALTH PREPAREDNESS	93.283	U90/CCU224241-04		142,715
Biomedical Research and Research Training				
FACULTY DEVELOPMENT IN PRIME CARE	93.859	2 D55 HP05154-04-00		318,501
Total Direct Award Programs: Other DHHS (Non-NIH)				461,216
Pass-through Awards				
Health Resources & Services Admin				
Geriatric Education Centers				
MOUNT SINAI SCHOOL OF MEDICINE	93.969	MSSM 0253-6151-4609		70,921
MOUNT SINAI SCHOOL OF MEDICINE	93.969	MSSM 0253-6151-4609	1 D31 HP08803-01-00	1,002
Total Pass-through Programs: Health Resources & Services Admin				71,923
Center for Disease Control				
ASSOCIATION FOR PREVENTION TEACHING AND RESEARCH	93.000	APTAR CU52303001	CDC	25,227
Project Grants and Cooperative Agreements for Tuberculosis Control Programs				
NEW JERSEY DEPARTMENT OF HEALTH	93.116	NJDH CU00-0713	CDC	97,159
Total Pass-through Programs: Center for Disease Control				122,386
Substance Abuse & MHS Admin				
Block Grants for Community Mental Health Services				
AMERICAN PSYCHIATRIC ASSOCIATION	93.958	APSYA CU08-9623	SAMSA	18,790
Total Pass-through Programs: Substance Abuse & MHS Admin				18,790
Total: Department of Health & Human Services				5,853,616

National Institute of Health

Direct Awards

National Cancer Institute

Cancer Research Manpower				
TRAINING PROGRAM IN CANCER-RELATED POPULATION SCIENCES	93.398	5 R25 CA094061-07		275,161

The Trustees of Columbia University in the City of New York
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For year ended June 30, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
TRAINING PROGRAM IN CANCER-RELATED POPULATION SCIENCES	93.398	2 R25 CA094061-06		23,378
Total Direct Award Programs: National Cancer Institute				298,539
Nat. Inst. of General Medical Sciences				
Biomedical Research and Research Training				
IMSD AT COLUMBIA'S MAILMAN SCHOOL OF PUBLIC HEALTH	93.859	2 R25 GM062454-05A2		405,828
Total Direct Award Programs: Nat. Inst. of General Medical Sciences				405,828
Fogarty International Center				
International Research and Research Training				
BUILDING CAPACITY TO REDUCE ARSENICOSIS IN BANGLADESH	93.989	5 D43 TW005724-07		149,624
INTERNATIONAL TRAINING PROGRAM IN EPIDEMIOLOGY OF AIDS	93.989	5 D43 TW000231-14		521,254
INTERNATIONAL TRAINING PROGRAM IN EPIDEMIOLOGY OF AIDS	93.989	5 D43 TW000231-13 SUP		-5,000
Total Direct Award Programs: Fogarty International Center				665,878
Other NIH				
Allergy, Immunology and Transplantation Research				
SUMMER IMMUNOLOGY RESEARCH PROGRAM FOR HIGH SCHOOL SCIENCE TEACHERS	93.855	1 R25 A1080566-01		22,055
Total Direct Award Programs: Other NIH				22,055
Pass-through Awards				
Nat. Inst. of Arthritis & Muscul. & Skin Disease				
Arthritis, Musculoskeletal and Skin Diseases Research				
NORTHSHORE - LONG ISLAND JEWISH HEALTH SYSTEM	93.846	NSLIJHS 08-0110	7 R01 AR047984-06	3,882
Total Pass-through Programs: Nat. Inst. of Arthritis & Muscul. & Skin Disease				3,882
Nat. Inst. of Child Health & Human Dvlpt.				
Child Health and Human Development Extramural Research				
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	93.865	UCSF CU08-7768	5 R25 HD045810-05	2,151
Total Pass-through Programs: Nat. Inst. of Child Health & Human Dvlpt.				2,151

Fogarty International Center
International Research and Research Training

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
WEILL (JOAN & SANFORD I.) MEDICAL COLLEGE OF CORNELL UNIVERSITY	93.989	CUMC CU51866904	5 D43 TW000018-20	4,186
Total Pass-through Programs: Fogarty International Center				4,186
Total: National Institute of Health				1,402,519
Grand Total: Department of Health & Human Services				7,256,135

National Science Foundation
Direct Awards

National Science Foundation

INSTITUTIONAL ALLOWANCE FOR MARK HOFNER (MATHEMATICAL SCIENCES RESEARCH FELLOWSHIP)	47.000	NSF CU08-9130		2,250
Mathematical and Physical Sciences				
COLLABORATIVE RESEARCH: EMSW21-RTG: JOINT COLUMBIA-CUNY-NYU RESEARCH TRAINING GROUP IN NUMBER THEORY	47.049	DMS-0739400		71,828
POSTDOCTORAL FELLOWSHIP FOR MARCEL AGUEROS	47.049	AST-06-02099		1,088
RESEARCH AND ROLLING EXHIBITS (RARE)	47.049	PHY-05-25975	MC	58,903
RESEARCH AND ROLLING EXHIBITS (RARE)	47.049	PHY-05-25975		19,562
RET WEB SITE	47.049	NSF CU52237902		7,117
STUDENT SUPPORT FOR 9TH INTERNATIONAL WORKSHOP ON NON-NEUTRAL PLASMA PHYSICS	47.049	PHY-0832767		5,000
				163,498

Social, Behavioral, and Economic Sciences

DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE: PATRONS AND PORK AS ALTERNATIVE METHODS OF TARGETING RESOURCES	47.075	SES-07-19989		1,218
DOCTORAL DISSERTATION RESEARCH IN POLITICAL SCIENCE: THE QUALITY OF GOVERNMENT PERFORMANCE IN ARGENTINE MUNICIPALITIES	47.075	SES-06-15547		-10
DOCTORAL DISSERTATION RESEARCH: JUSTICE FOR ALL? HOW RACE INFLUENCES THE INTAKE PROCESS IN JUVENILE	47.075	SES-0752232		2,692
PECASE: RETHINKING THE VALUE OF CHOICE: CONSIDERING CULTURALINDIVIDUAL, & SITUATIONAL MEDIATORS OF INTRINSIC MOTIVATION	47.075	BCS-0094309		26,928
				30,828

Education and Human Resources

TRACK 2, GK12: TECHNOLOGY INTEGRATION PARTNERSHIPS: BRINGING EMERGING STEM RESEARCH INTO GRADES 5-12	47.076	DGE-03-38329		297,363
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Total Direct Award Programs: National Science Foundation				493,939
Total: National Science Foundation				493,939

National Aeronautics & Space Administration
Pass-through Awards

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
National Aeronautics & Space Administration				
Aerospace Education Services Program				
CORNELL UNIVERSITY	43.001	CU NO.48240-7884	NNG05GH17H	33,297
Total Pass-through Programs: National Aeronautics & Space Administration				33,297
Total: National Aeronautics & Space Administration				33,297

Department of Energy
Pass-through Awards

Department of Energy				
Office of Science Financial Assistance Program				
BROOKHAVEN NATIONAL LABORATORY	81.049	BNL #122048	DE-AC02-98CH10886	42,637
Total Pass-through Programs: Department of Energy				42,637
Total: Department of Energy				42,637

Department of Defense
Direct Awards

Department of the Army				
Military Medical Research and Development				
MULTIPLE DETERMINANTS OF ALCOHOL USE AMONG AFRICAN AMERICANS	12.420	W81XWH-04-1-0829		678
Total Direct Award Programs: Department of the Army				678

Department of the Navy

Basic and Applied Scientific Research				
GS FINANCIAL AID ONR SERRANO COHORT 3	12.300	N00014-04-1-0427	GS5	104,298
GS FINANCIAL AID ONR SERRANO COHORT 4	12.300	N00014-05-1-0309	GS4	25,200
GS INTERNSHIP ONR SERRANO COHORT 3	12.300	N00014-04-1-0427	GS3	-66,660
GS STUDENT SERVICES ONR SERRANO COHORT 3	12.300	N00014-04-1-0427	GS2	3,240
SIPA ADMISSIONS ONR SERRANO COHORT 2	12.300	N00014-03-1-0986	S1	-3,240
Total Direct Award Programs: Department of the Navy				62,838
Total: Department of Defense				63,516

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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<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Department of Commerce				
Direct Awards				
Department of Commerce				
Coastal Zone Management Estuarine Research Reserves				
AND CLIMATIC CHANGES IN HUDSON RIVER NERR WETLANDS	11.420	NOA NA08NOS4200273		20,823
Total Direct Award Programs: Department of Commerce				20,823
Total: Department of Commerce				20,823

Department of Education
Direct Awards

Department of Education

COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIA STUDIES	84.015	DE P015A060144-07	PR	98,207
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060144-07	LIB	77,960
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060144	INS	31,414
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060144-07	SYP	13,357
COLUMBIA UNIVERSITY NATIONAL RESOURCE CENTER FOR SOUTH ASIAN STUDIES	84.015	DE P015A060144-07	OUT	6,361
CURRICULM AND RESEARCH DEVELOPMENT	84.015	DE P015A060078-CRD		44,874
EAST EUROPEAN, RUSSIAN AND EURASIAN NATIONAL RESOURCE CENTERAND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B060127-07		8,721
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP FOR THE INSTITUTE OF AFICAN STUDIES COLUMBIA UNIVERSIT	84.015	DE-P015B060002-08	SCO	119,500
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B060127		209,730
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B060144-07		160,708
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS	84.015	DE P015B060144-07		4,400
FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIPS FOR THE INSTITUTE OF AFRICAN STUDIES, COLUMBIA UNIVERSITY	84.015	DE P015B060002-07	A	5,495
ILAS NRC/FLAS TITLE VI	84.015	DE-P015B060078		253,012
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015A060078-07		312,818
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015A060078-07	LIB	22,559
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015B060078-07		16,693
ILAS NRC/FLAS TITLE VI APPLICATION	84.015	DE P015A060078- 07	INS	-8,677

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
MIDDLE EAST INSTITUTE NATIONAL RESOURCE CENTERS, COLUMBIA UNIVERSITY	84.015	DE P015A060101-07 PRI		125,510
MIDDLE EAST INSTITUTE NATIONAL RESOURCE CENTERS, COLUMBIA UNIVERSITY	84.015	DE P015A060101-07 INS		54,652
MIDDLE EAST INSTITUTE NATIONAL RESOURCE CENTERS, COLUMBIA UNIVERSITY	84.015	DE P015A060101-07 LIB		31,437
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-08 OUT		40,992
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-08 STA		39,618
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-08		38,725
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-08 EAL		5,933
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015B060025		5,189
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-07 LIB		3,456
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-07 OUT		1,346
NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-07 PRI		865
NATIONAL RESOURCE CTR-EAST EUROPEAN, RUSSIAN & EURASIAN AREAAND AREA FELLOWSHIPS	84.015	DE P015A060127-07 LIB		37,568
NATIONAL RESOURCES CENTER AND FOREIGN LANGUAGE AREA STUDIES	84.015	DE P015A060025-08 EAL		74,243
WEST EUROPEAN NATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AND AREA FELLOWSHIPS	84.015	DE P015A060127-07 CTR		82,732
WEST EUROPEANUNATIONAL RESOURCE CENTER AND FOREIGN LANGUAGE AND AREA FELLOWSHIPS	84.015	DE P015A060127-07 INS		<u>95,379</u>
				2,014,777
FULBRIGHT HAYS DOCTORAL DISSERTATION RESEARCH ABROAD PROGRAM 2008-2009	84.022	DE P022A080064		107,603
FULBRIGHT-HAYS DOCTORAL DISSERTATION RESEARCH ABROAD PROGRAM2007-2008	84.022	DE P022A070058		<u>40,618</u>
				148,221
Fund for the Improvement of Postsecondary Education				
BLENDED EDUCATION FOR POST DOCTORAL GENERAL DENTISTRY RESIDENCY TRAINING PROGRAMS	84.116	P116B041314		7,839
JACOB JAVITS FELLOWSHIP 2007/2008	84.170	P170B070032-08		85,962
JACOB JAVITS FELLOWSHIP 2007/2008	84.170	DE P1708050022-08		63,837
JACOB JAVITS FELLOWSHIP 2008/2009	84.170	DE P170B080002		<u>252,072</u>
				401,871
Centers for International Business Education				
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-08 OTP		85,869
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-07 OTP		79,423
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-08		62,730
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-08 INS		60,740
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-08 CH2		59,711
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-07 CHZ		10,419
COLUMBIA UNIVERSITY CIBER	84.220	DE P220A060005-07		<u>7,982</u>
				366,874
Total Direct Award Programs: Department of Education				<u><u>2,939,582</u></u>
Pass-through Awards				

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.			Pass-through/Contract Number	Expenditures
Department of Education						
NEW YORK UNIVERSITY	84.015	NYU	F6025-01	CTR	DE-P015A6018-01	58,077
NEW YORK UNIVERSITY	84.015	NYU	F6025-01	INS	DE-P015A6018-01	39,290
NEW YORK UNIVERSITY	84.015	NYU	F6025-01	LIB	DE-P015A6018-01	4,960
NEW YORK UNIVERSITY	84.015	NYU F6014-01			DE-P015B060168-01	<u>6,125</u>
						108,452
Career and Technical Education -- Basic Grants to States						
FAMILY SERVICES OF WESTCHESTER	84.048	FSW	CU02831201		DE	668
Total Pass-through Programs: Department of Education						<u>109,120</u>
Total: Department of Education						<u>3,048,702</u>
Department of State						
Direct Awards						
Department of State						
GS FINANCIAL AID DOS SERRANO COHORT 4	19.202	DS	SLMAQM-04GR180	GIT		40,642
Total Direct Award Programs: Department of State						<u>40,642</u>
Pass-through Awards						
Department of State						
Academic Exchange Programs - Graduate Students						
INSTITUTE OF INTERNATIONAL EDUCATION	19.400	IIE	CU08-8491		DS	57,235
Total Pass-through Programs: Department of State						<u>57,235</u>
Total: Department of State						<u>97,877</u>
Dept. of Housing & Urban Development						
Direct Awards						
Dept. of Housing & Urban Development						
General Research and Technology Activity						
DOCTORAL DISSERTATION: THE PUBLIC AND URBAN DEVELOPMENT IN BROOKLYN: AN HISTORICAL-ETHNOGRAPHIC CASE STUDY	14.506	HUD	H-21541SG			495

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
THE POLITICAL ECONOMY OF INCLUSIONARY HOUSING: ADOPTION, IMPLEMENTATION, AND NEIGHBORHOOD EFFECTS	14.506	HUD H-21558SG		9,601
Total Direct Award Programs: Dept. of Housing & Urban Development				10,096
Total: Dept. of Housing & Urban Development				10,096
Nat. Endowment for the Arts & Humanities Direct Awards				
Nat. Endowment for the Arts & Humanities				
Promotion of the Arts_Grants to Organizations and Individuals				
THE NEA ARTS JOURNALISM INSTITUTE IN CLASSICAL MUSIC AND OPERA AT COLUMBIA	45.024	NEA DCA 08-13		193,786
THE NEA ARTS JOURNALISM INSTITUTE IN CLASSICAL MUSIC AND OPERA AT THE COLUMBIA UNIVERSITY GRADUATE SCHOOL OF JOURNAL.	45.024	NEA DCA 07-08		20,552
				214,338
Promotion of the Humanities_Fellowships and Stipends				
"FREE" LABOR AND TRADE IN THE CHINESE PACIFIC, 1760-1860	45.160	NEH FA-53399-07		-6
Total Direct Award Programs: Nat. Endowment for the Arts & Humanities				214,332
Total: Nat. Endowment for the Arts & Humanities				214,332
Other Agencies / Gov't Direct Awards				
Japan US Friendship Commission				
Japan-US Friendship Commission Grants				
2007-2008 JAPAN-US FRIENDSHIP COMMISSION PRIZE FOR THE TRANSLATION OF JAPANESE LITERATURE	90.300	JAPUS 07-31		1,500
Total Direct Award Programs: Japan US Friendship Commission				1,500
Total: Other Agencies / Gov't				1,500
Total: OTHER PROGRAMS (Other Sponsored Training)				11,282,854

HIGHWAY SAFETY CLUSTER

Department of Transportation
Direct Awards

Department of Transportation

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Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
State and Community Highway Safety				
CRITICAL STUDIES TO ADVANCE BRAIN INJURY BIOMECHANICS THROUGH SIMON	20.600	DTNH22-08-C-00088		137,420
Total Direct Award Programs: Department of Transportation				137,420
Total: Department of Transportation				137,420
Total: HIGHWAY SAFETY CLUSTER				137,420

TRIO CLUSTER

Department of Education
Direct Awards

Department of Education

TRIO_Talent Search				
DOUBLE DISCOVERY CENTER - TALENT SEARCH/2005-2006	84.044	DE P044A020712-03		728
TALENT SEARCH PROGRAM	84.044	DE P044A060143-07		397,013
				397,741
TRIO_Upward Bound				
UPWARD BOUND - 2007/2008	84.047	DE P047A040986		-3,479
UPWARD BOUND PROGRAM	84.047	DE P047A080458		1,036,424
				1,032,945
TRIO_McNair Post-Baccalaureate Achievement				
RONALD E. MCNAIR POST-BACCALAUREATE ACHIEVEMENT	84.217	DE P217A030194-06 A01		4,812
RONALD E. MCNAIR POSTBACCALAUREATE ACHIEVEMENT PROGRAM	84.217	DE P217A070257		122,812
				127,624
Total Direct Award Programs: Department of Education				1,558,310
Total: Department of Education				1,558,310
Total: TRIO CLUSTER				1,558,310

FOREIGN FOOD DONATION CLUSTER-USAID

Department of State
Pass-through Awards

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, 2009

Federal Grantor / Pass-through Grantor	CFDA No	Project No.	Pass-through/Contract Number	Expenditures
Department of State				
Food for Peace Development Assistance Program (DAP)				
ASIAN DISASTER PREPAREDNESS CENTERE	98.007	ADPC CT-01-04	AID DFD-A-00-03-0005-00	45,558
Total Pass-through Programs: Department of State				45,558
Total: Department of State				45,558
Total: FOREIGN FOOD DONATION CLUSTER-USAID				45,558
HEAD START CLUSTER				
Department of Health & Human Services				
Direct Awards				
Admin for Children & Families				
Head Start				
COLUMBIA UNIVERSITY EARLY HEADSTART	93.600	02CH9933/05		478,466
COLUMBIA UNIVERSITY EARLY HEADSTART	93.600	02CH9933/04		27,629
COLUMBIA UNIVERSITY EARLY HEADSTART	93.600	02CH9933/03		16,770
EARLY HEAD START	93.600	02CH9933/06		2,038,486
Total Direct Award Programs: Admin for Children & Families				2,561,351
Pass-through Awards				
Other DHHS (Non-NIH)				
Head Start				
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	NYCHRA 660TCOL	2 R01 DHHS	438,107
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	NYCHRA 660TCOL	DHHS CU09-0533	283,307
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	NYCHRA CU50738316	2 R01 DHHS	302
NEW YORK CITY HUMAN RESOURCES ADMINISTRATION	93.600	*NYCHRA CU50738314	2 R01 DHHS	-2,994
Total Pass-through Programs: Other DHHS (Non-NIH)				718,722
Total: Department of Health & Human Services				3,280,073
Grand Total: Department of Health & Human Services				3,280,073
Total: HEAD START CLUSTER				3,280,073

The Trustees of Columbia University in the City of New York
Supplemental Schedule of Expenditures of Federal Awards
For year ended June 30, 2009

<u>Federal Grantor / Pass-through Grantor</u>	<u>CFDA No</u>	<u>Project No.</u>	<u>Pass-through/Contract Number</u>	<u>Expenditures</u>
Grand Total Federal Award Expenditures:				<u><u>686,700,736</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, 2009 (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, 2009, 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 grantor/pass-through/project number, and the pass-through/contract number, if applicable, on the schedule, represents the Federal identification number assigned to the applicable program. CFDA numbers and pass-through numbers are provided when applicable.

2. Official Agency Names

Full names of the sponsoring agencies included on the accompanying schedules are as follows:

DHHS	Department of Health & Human Services
NSF	National Science Foundation
DEFENSE	Department of Defense
	Department of the Army
	Department of the Navy
	Department of the Air Force
	Advanced Research Projects Agency
	National Security Agency
	Office of the Secretary of Defense
NASA	National Aeronautics & Space Administration
EDUCATION	Department of Education
COMMERCE	Department of Commerce
ENERGY	Department of Energy
OTHER AGENCIES	Other Federal Government Agencies:
	Central Intelligence Agency
	Department of Agriculture
	Department of Homeland Security
	Department of Housing & Urban Development
	Department of Labor
	Department of Interior
	Department of Justice
	Department of State
	Department of Transportation
	Environmental Protection Agency
	Library of Congress
	National Archives and Records Administration
	National Endowment for the Arts & Humanities
	National Institute of Health
	Nuclear Regulatory Commission
	Japan US Friendship Commission
	United States Institute of Peace
	Social Security Administration
	State/City Government

The Trustees of Columbia University in the City of New York
Notes to Summary Schedule of Expenditures of Federal Awards
Year ended June 30, 2009 (expenditures in thousands)

United States Agency for International Development

Subrecipient

During fiscal year 2009, the University provided \$86,851 to subrecipients in the following programs:

Research and development	\$ 55,890
HIV Demonstration, Research, Public and Professional Education Projects	\$ 20,014
Other	\$ 10,947

3. Facility and Administrative Costs

The University's negotiated predetermined cost rates for the year ended June 30, 2009 were as follows:

	Rate
All campuses, excluding Lamont-Doherty Earth Observatory	
On-campus	60.3 %
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 %
Off-campus modified	

4. Guaranteed Student Loan Programs

The University does not guarantee any federal loan funds related to the loan programs, but instead, processes and authorizes loans to students which are guaranteed by the federal government and granted ultimately by banks.

The University offers student financial assistance through the following guaranteed student loan programs:

Federal Agency	Federal Family Education Loan Programs	Federal CFDA No.	Loans Issued for the year ended June 30, 2009
Education	Federal Subsidized Stafford Loan Program	84.032	\$ 57,552
Education	Federal Unsubsidized Stafford Loan Program	84.032	\$ 91,629
Education	Federal Plus Loan Program	84.032	\$ 10,809
Education	Federal Graduate Plus Loan Program	84.032	\$ 75,725

The Trustees of Columbia University in the City of New York
Notes to Summary Schedule of Expenditures of Federal Awards
Year ended June 30, 2009 (expenditures in thousands)

5. Student Loan Programs

The University administers the following loan programs:

<u>Federal Agency</u>	<u>Program</u>	<u>Federal CFDA No.</u>	<u>Loans issued for year ended June 30, 2009</u>	<u>Outstanding Principal Balance at June 30, 2009</u>
Education	Perkins Loan	84.038	\$ 4,650	\$ 62,897
DHHS	Health Professionals	93.342	669	5,707
DHHS	Nursing Student	93.364	209	1,113

6. Other Federal Loans

The University also has two loans from the U.S. Department of Education for \$3,262 in connection with housing programs. The loans bear interest rates from 3.0% to 5.5% and mature in 2020 and 2021.

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, 2009 was \$528. This expense was charged to one program, the Federal Work-Study 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 \$5,500,000 expended and 3% on expenditures over \$5,500,000.

**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 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, 2009, and have issued our report thereon dated October 28, 2009, which included an explanatory paragraph related to the adoption of Statement of Financial Accounting Standards No. 157 "Fair Value Measurements." 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.

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 control deficiency 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 misstatements on a timely basis. A significant deficiency is a control deficiency, or combination of control deficiencies, that adversely affects the entity's ability to initiate, authorize, record, process, or report financial data reliably in accordance with generally accepted accounting principles such that there is more than a remote likelihood that a misstatement of the entity's financial statements that is more than inconsequential will not be prevented or detected by the entity's internal control.

A material weakness is a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that a material misstatement of the financial statements will not be prevented or detected by the entity's internal control.

Our consideration of internal control over financial reporting was for the limited purpose described in the first paragraph of this section and would not necessarily identify all deficiencies in internal control that might be 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 other matters that we reported to management of the University in a separate letter dated October 28, 2009.

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 those specified parties.

PricewaterhouseCoopers LLP

New York, New York
October 28, 2009

**Report of Independent Auditors on Compliance with Requirements
Applicable to 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 U.S. Office of Management and Budget (OMB) Circular A-133 Compliance Supplement that are applicable to each of its major federal programs for the year ended June 30, 2009, 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 Trustees of Columbia University in the City of New York'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 of the University's compliance with those requirements.

In our opinion based upon our audit and the report of other auditors, the University complied, in all material respects, with the requirements referred to above that are applicable to each of its major federal programs for the year ended June 30, 2009. However, the results of our auditing procedures also disclosed other 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 item 09-1.

Internal Control Over Compliance

The 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, we considered the University's internal control over compliance with requirements that could have a direct and material effect on a major federal program in order to determine our auditing procedures for the purpose of expressing our opinion on compliance but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance in accordance with OMB Circular A-133. 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 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 control deficiency in an entity's internal control over compliance 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 noncompliance with a type of compliance requirement of a federal program on a timely basis. A significant deficiency is a control deficiency, or combination of control deficiencies, that adversely affects the entity's ability to administer a federal program such that there is more than a remote likelihood that noncompliance with a type of compliance requirement of a federal program that is more than inconsequential will not be prevented or detected by the entity's internal control.

A material weakness is a significant deficiency, or combination of significant deficiencies, that results in more than a remote likelihood that material noncompliance with a type of compliance requirement of a federal program will not be prevented or detected by the entity's internal control. 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 would not necessarily identify all deficiencies in internal control that might be 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 response 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 response and accordingly, we express no opinion on it.

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 those specified parties.

PricewaterhouseCoopers LLP

New York, New York
March 31, 2010

The Trustees of Columbia University in the City of New York
Schedule of Findings and Questioned Costs
For the year ended June 30, 2009

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
93.941	HIV Demonstration, Research, Public and Professional Education Projects
93.943	Epidemiologic Research Studies of AIDS and HIV
98.000	Microbiology and Infectious Diseases Research
93.926	Healthy Start Initiative
93.145	AIDS Education and Training Centers

Dollar threshold used to distinguish between
 Type A and Type B programs: \$3,000,000

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, 2009

Section II—Financial Statement Findings

None noted.

Section III—Federal Award Findings and Questioned Costs Section

Part A - PricewaterhouseCoopers Findings:

09-1 Enhance Procedures over Student Withdrawals

Applies to all Title IV student financial aid in the student financial aid cluster.

Condition

The following exceptions were noted during our audit:

- (1) Of the 55 student withdrawals tested, we noted four return of funds were made after the required 45 day period. The late returns ranged from 2 days late to 273 days late.
- (2) Of the 55 student withdrawals tested, we noted that a refund relating to a Pell grant was not processed in the amount of \$439.
- (3) Of the 55 student withdrawals tested, 1 return of funds was processed in an incorrect amount due to a transposition error. The student withdrawal was processed in the amount of \$7,347 and the correct amount was \$8,129.

The University has taken corrective action for each instance noted above.

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.

Cause

Staff transition and administrative error resulted in the late return of funds and the incorrect withdrawal calculations.

Effect

In the instances cited above, the University did not comply with the administrative requirements of this program in that certain credit accounts and student withdrawals were not refunded timely or for the correct amount.

Recommendation

The University has a Letter of Credit posted under the Department of Education regulation 34 CFR 668.173 (d)(2) and (3) (i) relating to the 2008 audit year. We recommend the University discuss with the Department of Education the Letter of Credit requirements relating to the current year findings in this area.

We recommend that the University continue to enforce policies and procedures in place to ensure that student withdrawals are identified and returned within the required time frame and in the correct amount.

Management's View and Corrective Action Plan

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

The Trustees of Columbia University in the City of New York
Schedule of Findings and Questioned Costs, Continued
For the year ended June 30, 2009

Status of Prior Year's Findings

Part A - PwC Findings

08-1 Enhance Timeliness of Financial Status Reports

2009 Status - Resolved. The University implemented new tools and processes in fiscal year 2009 to ensure timely filing of Financial Status Reports.

08-2 Enhance Procedures over Student Withdrawals

2009 Status - Refer to 09-1 for current year finding and steps the University has implemented to correct the noted deficiency.

08-3 Documentation Retention Procedures - Federal Work Study Agreements with Employers

2009 Status - Resolved. The University implemented a new process to ensure signed Federal Work Study agreements are maintained.

COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK
OFFICE OF THE CONTROLLER

Management's Response and Corrective Action Plan Regarding OMB Circular A133
Audit Finding For the Year Ended June 30, 2009

09-1 Enhance Procedures over Student Withdrawals

Management's View and Corrective Action Plan

We agree with the findings. We have completed a self audit and have determined that the late return rate continues to decrease over the last 3 years. However, as it is still above the Department of Education guidelines of 5%, we have agreed to increase our Letter of Credit with the Department by \$14,021 for a total of \$119,691.

We have incorporated additional manual process improvements this year which are expected to help reduce the late return rate.

Additionally, we are in the process of purchasing a software product that will provide an electronic, standardized, and centralized means of processing withdrawal requests and forms. Central administration will work to enforce utilization of this electronic form for withdrawal processing across the University. This electronic form process is scheduled to be in place by the 2010 Summer Term.

Responsible person Contact Name: Laurie Schaffler, Associate Vice President, Student Administrative Services: Contact Number (212) 854-2268



Cheryl Ross
Controller

The Trustees of Columbia University in the City of New York