THE JOHNS HOPKINS UNIVERSITY

Consolidated Financial Statements and Independent Auditors' Reports Required by Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, and Related Information

Year Ended June 30, 2019

(With Independent Auditors' Report Thereon)

THE JOHNS HOPKINS UNIVERSITY

Table of Contents

	Page
Section A – Financial Statements, Supplementary Information, and Independent Auditors' Report Thereon – June 30, 2019	1
Section B – Independent Auditors' Report 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*	79
Section C – Independent Auditors' Report on Compliance for Each Major Federal Program; Report on Internal Control over Compliance; and Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance	81
Section D – Schedule of Findings and Questioned Costs	83

SECTION A

KPMG LLP
750 East Pratt Street, 18th Floor
Baltimore, MD 21202

Independent Auditors' Report

The Board of Trustees
The Johns Hopkins University:

We have audited the accompanying consolidated financial statements of The Johns Hopkins University (the University), which comprise the consolidated balance sheets as of June 30, 2019 and 2018, the related consolidated statements of activities and cash flows for the years then ended, and the related notes to the consolidated financial statements.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with U.S. generally accepted accounting principles; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of The Johns Hopkins University as of June 30, 2019 and 2018, and the changes in its net assets and its cash flows for the years then ended in accordance with U.S. generally accepted accounting principles.

KPMG LLP is a Delaware limited liability partnership and the U.S. member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative ("KPMG International"), a Swiss entity.

Emphasis of Matter

As discussed in note 1(v) to the consolidated financial statements, in 2019, the University adopted Accounting Standards Update (ASU) 2014-09, *Revenue from Contracts with Customers (Topic 606)*, as amended, and ASU 2018-08, *Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made*. Our opinion is not modified with respect to these matters.

KPMG LLP

Baltimore, Maryland
October 22, 2019

THE JOHNS HOPKINS UNIVERSITY

Consolidated Balance Sheets

June 30, 2019 and 2018

(Dollars in thousands)

Assets		**2019**	**2018**
Cash and cash equivalents	$	347,007	262,356
Operating investments		1,225,501	1,217,481
Cash, cash equivalents, and operating investments		1,572,508	1,479,837
Sponsored research accounts receivable, net		489,650	456,291
Accounts receivable, net		228,858	186,888
Contributions receivable, net		359,545	500,150
Prepaid expenses and deferred charges		77,060	63,150
Student loans receivable, net		27,021	30,834
Investments		7,190,782	5,144,881
Property and equipment, net		2,194,975	2,126,913
Investment in and loans to affiliates		303,984	300,579
Other assets		292,605	242,347
Interests in trusts and endowment funds held by others		113,426	116,098
Total assets	$	12,850,414	10,647,968
Liabilities and Net Assets			
Accounts payable and accrued expenses	$	685,413	636,682
Sponsored research deferred revenues		347,350	353,265
Other deferred revenues		135,875	124,435
Debt		1,254,153	1,246,992
Other long-term liabilities		343,547	306,567
Pension and postretirement obligations		184,612	100,717
Liabilities under split-interest agreements		79,375	78,085
Endowment and similar funds held for others		623,028	621,769
Total liabilities		3,653,353	3,468,512
Net assets:			
Without donor restrictions		3,077,677	2,989,309
With donor restrictions		6,119,384	4,190,147
Total net assets		9,197,061	7,179,456
Total liabilities and net assets	$	12,850,414	10,647,968

See accompanying notes to consolidated financial statements.

THE JOHNS HOPKINS UNIVERSITY

Consolidated Statements of Activities

Years ended June 30, 2019 and 2018

(Dollars in thousands)

	2019	2018
Changes in net assets without donor restrictions:		
Operating revenues:		
Tuition and fees, net of financial aid of $363,694 and $333,558, respectively	$ 690,465	657,682
Grants, contracts, and similar agreements	1,511,335	1,506,621
Facilities and administrative cost recoveries	372,478	360,106
Applied Physics Laboratory contract revenues	1,686,547	1,504,224
Sponsored research revenues	3,570,360	3,370,951
Contributions	123,341	135,812
Net assets released from restrictions	118,411	94,317
Contributions and donor support	241,752	230,129
Clinical services, net	745,197	708,693
Reimbursements from affiliated institutions	598,457	570,649
Other revenues	192,343	143,611
Endowment payout used to support operations	196,770	183,486
Auxiliary enterprises	106,189	104,056
Maryland State aid	27,253	22,857
Investment return	41,331	28,862
Total operating revenues	6,410,117	6,020,976
Operating expenses:		
Compensation	2,909,517	2,738,093
Benefits	913,782	865,426
Compensation and benefits	3,823,299	3,603,519
Subcontractors and subrecipients	518,102	474,121
Contractual services	853,147	781,861
Supplies, materials, and other	652,062	603,358
Depreciation	223,263	211,193
Travel	162,989	153,604
Interest	44,518	47,583
Total operating expenses	6,277,380	5,875,239
Excess of operating revenues over operating expenses	132,737	145,737

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Consolidated Statements of Activities

Years ended June 30, 2019 and 2018

(Dollars in thousands)

		2019	2018
Other changes in net assets without donor restrictions:			
Investment return in excess of endowment payout	$	21,617	38,360
Change in benefit plans funded status, excluding benefits cost		(88,659)	83,572
Other net periodic benefit cost		5,908	(321)
Change in fair value on interest rate swap agreements		(7,832)	5,978
Net assets reclassified		—	(110,892)
Other, net		22,342	21,125
Net assets released from restrictions		2,255	39,220
Other changes in net assets without donor restrictions		(44,369)	77,042
Total changes in net assets without donor restrictions		88,368	222,779
Changes in net assets with donor restrictions:			
Contributions		2,091,797	383,068
Investment return (less than) in excess of endowment payout		(41,894)	122,202
Net assets reclassified		—	110,892
Net assets released from restrictions		(120,666)	(133,537)
Total changes in net assets with donor restrictions		1,929,237	482,625
Total change in net assets		2,017,605	705,404
Net assets at beginning of year		7,179,456	6,474,052
Net assets at end of year	$	9,197,061	7,179,456

See accompanying notes to consolidated financial statements.

THE JOHNS HOPKINS UNIVERSITY

Consolidated Statements of Cash Flows

Years ended June 30, 2019 and 2018

(Dollars in thousands)

	2019	2018
Cash flows from operating activities:		
Changes in net assets	$ 2,017,605	705,404
Adjustments to reconcile changes in net assets to net cash provided by operating activities:		
Depreciation, amortization, and loss on asset disposals	220,664	208,311
Noncash gift of investments	(1,885,023)	—
Contributions restricted for long-term investment	(227,248)	(289,935)
Net realized and unrealized gains from investments	(148,076)	(305,888)
Net unrealized losses (gains) from swaps	7,832	(5,978)
Earnings from joint ventures	(6,203)	(17,041)
Change in benefit plans funded status	83,895	(92,255)
Changes in operating assets and liabilities:		
Sponsored research and accounts receivable, net	(75,329)	(36,590)
Contributions receivable, net	140,605	(29,800)
Prepaid expenses and deferred charges	(13,910)	5,761
Other assets	(54,878)	1,336
Accounts payable and accrued expenses	41,846	40,868
Sponsored research, other deferred revenues and other long-term liabilities	39,293	(57,826)
Interests and liabilities related to trusts and split-interest agreements	4,473	6,442
Net cash provided by operating activities	145,546	132,809
Cash flows from investing activities:		
Purchases of investments	(4,477,898)	(4,351,587)
Proceeds from sales and maturities of investments	4,483,558	4,164,667
Purchases of property and equipment	(285,260)	(237,888)
Repayments of student loans, net of disbursements	3,813	3,839
Loans to affiliates	(1,639)	(39,895)
Repayments of loans to affiliates	7,614	41,956
Capital contributions to joint ventures, net of dividends	(3,177)	(27,351)
Change in endowment and similar funds held for others	(25,735)	(12,645)
Net cash used in investing activities	(298,724)	(458,904)
Cash flows from financing activities:		
Contributions restricted for long-term investment	227,248	289,935
Proceeds from borrowings	125,000	145,000
Early retirement and refinancings of debt	(50,000)	(134,880)
Scheduled debt payments	(64,419)	(56,971)
Net cash provided by financing activities	237,829	243,084
Net increase (decrease) in cash and cash equivalents	84,651	(83,011)
Cash and cash equivalents at beginning of year	262,356	345,367
Cash and cash equivalents at end of year	$ 347,007	262,356

See accompanying notes to consolidated financial statements.

(1) Basis of Presentation and Summary of Significant Accounting Policies

(a) General

The Johns Hopkins University (the University) is a premier, privately endowed institution that provides education and related services to students and others, research and related services to sponsoring organizations, and professional medical services to patients. The University is based in Baltimore, Maryland, but also maintains facilities and operates education programs elsewhere in Maryland, in Washington, D.C., and in certain foreign locations. The University is internationally recognized as a leader in research, teaching, and medical care.

Education and related services (e.g., room, board, etc.) are provided to approximately 26,000 students, including 14,500 full-time students and 11,500 part-time students, and on a net basis provided approximately 11% of the University's operating revenues in both fiscal 2019 and 2018. Approximately 62% of the full-time students are graduate level (including postdoctoral) and 38% are undergraduate level. Students are drawn from a broad geographic area, including most of the states in the United States and numerous foreign countries. The majority of the part-time students are graduate level students from the Baltimore-Washington, D.C. area.

Research and related services (e.g., research training) are provided through approximately 2,100 government and private sponsors. Sponsored research revenues provided approximately 56% of the University's operating revenues in both fiscal years 2019 and 2018. Approximately 86% of those revenues were from departments and agencies of the United States government in both fiscal 2019 and 2018. Major government sponsors include the Department of Health and Human Services, the Department of Defense, the National Aeronautics and Space Administration, and the Agency for International Development.

Professional clinical services are provided by members of the University's faculty to patients at The Johns Hopkins Hospital (the Hospital) and other hospitals and outpatient care facilities in the Baltimore area and produced approximately 12% of the University's operating revenues in both fiscal 2019 and 2018. Services are predominantly provided to patients in the Baltimore area, other parts of Maryland, or surrounding states.

(b) Basis of Presentation and Use of Estimates

The consolidated financial statements include the accounts of the various academic and support divisions, the Applied Physics Laboratory (APL), 63019 Holdings, LLC, Johns Hopkins University Press, and certain other controlled affiliated organizations, including Jhpiego Corporation and Peabody Institute of the City of Baltimore (collectively, the consolidated financial statements). All significant inter-entity activities and balances are eliminated for financial reporting purposes. Investments in organizations that the University does not control, including Dome Corporation, FSK Land Corporation, Johns Hopkins Healthcare LLC, Johns Hopkins Home Care Group, Inc., Johns Hopkins Medical Institutions Utilities LLC (JHMI Utilities LLC), Johns Hopkins Medicine International LLC, and other affiliated entities, are accounted for using the equity method.

The preparation of consolidated financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates and judgments that affect the reported amounts of assets and liabilities and disclosures of contingencies at the dates of the consolidated financial statements and revenues and expenses recognized during the reporting periods. Actual results could differ from those estimates.

Net assets, revenues, gains and losses are classified based on the existence or absence of donor-imposed restrictions into two classes of net assets. Accordingly, net assets of the University are classified and reported as follows:

- *Without donor restrictions* – Net assets that are not subject to donor-imposed stipulations.
- *With donor restrictions* – Net assets subject to donor-imposed stipulations that are more specific than broad limits resulting from a not-for-profit's nature, environment in which it operates, and incorporating documents. Some donors impose restrictions that are temporary in nature, for example, stipulating that resources be used only after a specified date, for particular programs or services, or to acquire buildings or equipment. Other donors impose restrictions that are perpetual in nature, for example, donor-restricted endowment funds stipulating that resources be maintained in perpetuity. For such funds held by the University, the Maryland-enacted version of the Uniform Prudent Management of Investment Funds (UPMIFA) extends those restrictions to related investment returns and to other enhancements (diminishments) for general and specific purposes, primarily divisional and departmental support and student financial aid.

Revenues are reported as increases in net assets without donor restrictions unless their use is limited by donor-imposed restrictions. Expenses are reported as decreases in net assets without donor restrictions. Gains and losses on investments are reported as increases or decreases in net assets without donor restrictions unless their use is restricted by explicit donor stipulations or by law. Under Maryland law, appreciation on donor-restricted endowments is classified as net assets with donor restrictions until appropriated for expenditure. Expirations of temporary restrictions on net assets (i.e., the donor-stipulated purpose has been fulfilled and/or the stipulated time period has elapsed) are reported as net assets released from restrictions and reclassified from net assets with donor restrictions to net assets without donor restrictions. Temporary restrictions on gifts to acquire long-lived assets are considered met in the period in which the assets are placed in service.

(c) Cash, Cash Equivalents, and Operating Investments

The University utilizes cash, cash equivalents, and operating investments to fund daily cash needs. Investments with original maturities at the date of purchase of 90 days or less are classified as cash equivalents. Investments with longer maturities are classified as operating investments. Operating investments, which include U.S. Treasury securities and other highly liquid fixed income investments, are stated at fair value, generally based on quoted market prices, and are used for general operating purposes.

(d) Contributions

Contributions, including unconditional promises to give, are recognized at fair value in the appropriate category of net assets in the period received, except that contributions that impose restrictions met in

the same fiscal year are included in net assets without donor restrictions. Unconditional promises to give are recognized initially at fair value considering anticipated future cash receipts and discounting such amounts at a risk-adjusted rate. These inputs to the fair value estimate are considered Level 3 in the fair value hierarchy (see note 1(f)). Amortization of the discount is included in contributions revenue. Conditional promises to give are not recognized until one or more of the barriers have been overcome for the University to be entitled to the assets transferred and a right of return for the transferred assets or a right of release of the promisor's obligation to transfer assets has expired. Contributions of assets are recorded at their estimated fair value at the date of gift, except that contributions of works of art, historical treasures, and similar assets held as part of collections are not recognized or capitalized. Allowance is made for uncollectible contributions receivable based upon management's judgment and analysis of the creditworthiness of the donors, past collection experience, and other relevant factors.

(e) Investments and Investment Return

Investments in United States government and agency obligations, debt securities, and directly held United States and certain international equities in common collective trust funds (CCTFs) are stated at fair value, which are determined primarily based on quoted market prices. Fair values of CCTFs, similar to mutual funds that are deemed to have a readily determinable fair value (RDFV) are based on published net asset values (NAV). Investments in private equity and venture capital, certain real estate, natural resources, certain international equities in CCTFs and marketable alternatives, (collectively, alternative investments) are stated at estimated fair value based on the funds' net asset values, or their equivalents (collectively NAV) as a practical expedient. If it is probable that alternative investments will be sold for an amount different than NAV, measurement of the alternative investments will be adjusted to fair value. As of June 30, 2019 and 2018, the University had no plans or intentions to sell investments at amounts different from NAV. The NAVs, which are estimated and reported by the general partners or investment managers, are reviewed and evaluated by the University's investment office. These estimated fair values may differ from the values that would have been used had a ready market existed for these investments, and the differences could be significant. Investments in certain real estate assets are recorded at fair value based upon independent third-party appraisals.

Investments are exposed to several risks, including interest rate, credit, liquidity, and overall market volatility. Due to the level of risk associated with certain investment securities, changes in the value of investment securities could occur in the near term, and these changes could materially affect the amounts reported in the accompanying consolidated financial statements. Liquidity risk represents the possibility that the University may not be able to rapidly adjust the size of its portfolio holdings in times of high volatility and financial stress at a reasonable price. If the University was forced to dispose of an illiquid investment at an inopportune time, it might be forced to do so at a substantial discount to fair value.

Investment return included in operating revenues consists of income and realized gains and losses on operating investments, including cash equivalents, and nonpooled endowment funds (except where restricted by donors). Endowment payout for pooled endowment and similar funds approved by the Board of Trustees is also recognized in operating revenues.

Unrealized gains and losses of operating investments and nonpooled endowment funds, any difference between the total return recognized and the payout for pooled endowment and similar funds, and income and realized gains restricted by donors are reported as nonoperating activities.

(f) Fair Value Measurements

Assets and liabilities that are reported at fair value on a recurring basis are categorized into a fair value hierarchy. As described further in the notes to the consolidated financial statements, such assets include investments, deferred compensation assets, and interests in trusts and endowment funds held by others, and such liabilities include interest rate swaps, obligations under deferred compensation arrangements, and endowment and similar funds held for others. Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The three levels of the fair value hierarchy are as follows:

- Level 1: Quoted prices in active markets for identical assets or liabilities.
- Level 2: Observable inputs other than Level 1 prices 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 full 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 asset or liabilities.

When observable prices are not available, certain real asset investments are valued using one or more of the following valuation techniques: market approach – this approach uses prices and other relevant information generated by market transactions involving identical or comparable assets or liabilities; income approach – this approach determines a valuation by discounting future cash flows; or cost approach – this approach is based on the principle of substitution and the concept that a market participant would not pay more than the amount that would currently be required to replace the asset. These valuation techniques may include inputs such as price information, operating statistics, specific and broad credit data, recent transactions, earnings forecasts, discount rates, reserve reports, and other factors.

(g) Split-Interest Agreements and Interests in Trusts

The University's split-interest agreements with donors consist primarily of irrevocable charitable remainder trusts and charitable gift annuity agreements for which the University serves as trustee. Assets held under these arrangements are included in investments and are recorded at fair value. Contribution revenues are recognized at the date the trusts or agreements are established after recording liabilities for the present value of the estimated future payments to be made to the donors and/or other beneficiaries. The liabilities are adjusted during the terms of the trusts for changes in the values of the assets, accretion of the discounts, and other changes in estimates of future benefits. Assets and liabilities under the University's charitable gift annuity agreements were $64,025 and $63,262 classified in investments and $34,810 and $32,897 classified in liabilities under split-interest agreements, respectively, as of June 30, 2019 and 2018.

(h) Property and Equipment

Property and equipment are stated at cost if purchased, or at estimated fair value at the date of gift if donated, less accumulated depreciation and amortization. Depreciation of buildings, equipment, and library collections and amortization of leasehold improvements are computed using the straight-line method over the estimated useful lives of the assets or lease term, if shorter. Land and certain historic buildings are not subject to depreciation. Title to certain equipment purchased using funds provided by government sponsors is vested in the University and is included in property and equipment on the consolidated balance sheets. Certain equipment used by the APL in connection with its performance under agreements with the United States government is owned by the government. These facilities and equipment are not included in the consolidated balance sheets; however, the University is accountable to the government for them. Repairs and maintenance costs are expensed as incurred.

Costs of purchased software are capitalized along with internal and external costs incurred during the application development stage (i.e., from the time the software is selected until it is ready for use). Capitalized costs are amortized on a straight-line basis over the expected life of the software. Computer and software maintenance costs are expensed as incurred.

Costs relating to retirement, disposal, or abandonment of assets for which the University has a legal obligation to perform certain activities are accrued using either site-specific surveys or square foot estimates, as appropriate.

(i) Tuition and Fees, Net of Financial Aid

Student tuition and fees are recorded as revenue as services are provided during the year the related academic services are rendered which generally aligns with the University's fiscal year. Tuition and fees received in advance of services provided are recorded as other deferred revenues and amounted to $97,082 and $87,692 at June 30, 2019 and 2018, respectively. The University provides institutional financial aid to eligible students, generally in an "aid package" that may also include loans, compensation under work-study programs, and/or grant and scholarship awards. The loans are provided primarily through programs of the United States government (including direct and guaranteed loan programs) under which the University is responsible only for certain administrative duties. The institutional grants and scholarships include awards provided from gifts and grants from private donors, income earned on endowment funds restricted for student aid, and University funds.

The composition of student tuition and fees, net revenue was as follows for the years ended June 30, 2019 and 2018:

		2019	2018
Undergraduate programs	$	174,290	183,356
Graduate programs		440,720	399,974
Other programs		75,455	74,352
	$	690,465	657,682

Other programs includes the University's Center for Talented Youth (a gifted education program for school-age children), continuing medical education, health services, and various nondegree programs.

(j) Grants, Contracts, and Similar Agreements

Grants, contracts, and similar agreements are funded by various federal and private sponsors. The vast majority of such agreements are considered nonexchange transactions and restricted by sponsors for specific research or other program purposes. Revenues are recognized within net assets without donor restrictions as conditions are met, (i.e., generally as qualifying expenditures are incurred). These revenues include recoveries of facilities and administrative costs, which are generally determined as a negotiated or agreed-upon percentage of direct costs, with certain exclusions. Payments received from sponsors in advance of conditions being met are reported as sponsored research deferred revenues. Of the $347,350 in sponsored deferred revenues as of June 30, 2019, $281,021 relates to nonexchange contracts and $66,329 relates to exchange contracts.

Approximately 78% and 76% of receivables related to reimbursement of costs incurred under grants and contracts as of June 30, 2019 and 2018, respectively, were from agencies or departments of the United States government. There is no assurance that sponsored research activities can and will continue to be made at current levels as awards are subject to the availability of and annual appropriation of funds. Accordingly, the University estimates that conditional awards outstanding as of June 30, 2019 approximate its recent annual sponsored program activity.

(k) Clinical Services, Net

Clinical services revenues are recognized in the period in which services are rendered based on gross charges less negotiated fixed discounts (explicit price concessions) which include contractual adjustments specific to the third party payer contracts, less amounts for "implicit price concessions". Fixed discounts are generally determined based on regulatory authorities, determined by legislative statute (Medicare and Medicaid), or negotiated in the case of commercial payers. Implicit price concessions are estimated based on the historical collection experience using a portfolio approach as a practical expedient.

The composition of clinical services revenue by primary payer for the years ended June 30, 2019 and 2018 was as follows:

		2019		2018	
PPO/HMO	$	331,409	44.5 %	307,169	43.3 %
Medicare		139,092	18.7	128,864	18.2
Medicaid		72,236	9.7	66,515	9.4
Blue Cross/Blue Shield		59,810	8.0	58,082	8.2
Self Pay		58,132	7.8	51,562	7.3
All other clinical		84,518	11.3	96,501	13.6
	$	745,197	100.0 %	708,693	100.0 %

(l) Affiliated Institutions

The University has separate administrative agreements for the exchange of services with the Hospital and other medical and educational institutions. These agreements are executed on an annual basis based on negotiated rates and reimbursement of actual costs. Costs incurred by the University in providing services to these institutions and the related reimbursements are generally recognized as services are provided and are reported as operating expenses and revenues, respectively, in the appropriate classifications.

The University holds several endowment and similar funds, which are designated for purposes or activities that are carried out by the Hospital and The Johns Hopkins Hospital Endowment Fund Incorporated (JHHEFI). The assets of these funds are included in investments. The carrying values of the funds are adjusted for earnings from and changes in the fair values of the investments and reduced for any distributions paid and are classified as liabilities on the consolidated balance sheets as endowment and similar funds held for others.

(m) Auxiliary Enterprises

Auxiliary enterprises, including residence halls, food service, parking, the press, and telecommunications, provide services to students, faculty, and staff. Fees for such services are recognized as revenue as the services are provided. Student related activities included in auxiliary enterprises amounted to $56,211 and $55,187 in fiscal 2019 and 2018, respectively.

(n) Other Revenues

Other revenues include revenues from royalties and patents, medical and professional reimbursements, joint ventures, and other miscellaneous activities. Such revenues are recognized when goods or services are provided to customers.

(o) Insurance and Self Insurance

The University, together with other institutions, has formed captive insurance companies that arrange and provide professional liability, general liability, and property damage insurance for their shareholders. Defined portions of claims paid by these companies are self-insured. The University's claims liabilities are recognized as claims are incurred using actuarial studies based upon historical claims data, cost trends, and other actuarial estimates. Insurance expenses are recognized as operating expenses as incurred. In addition, the University is self-insured for certain other risks, primarily health, and workers' compensation. Professional insurance liabilities associated with providing clinical services are reflected as gross claims on the consolidated balance sheets. In addition, medical malpractice insurance recoveries of $75,573 and $53,832 as of June 30, 2019 and 2018, respectively, are reported on the consolidated balance sheets as other assets. Accrued self-insurance liabilities, including medical malpractice insurance, aggregated $82,026 and $75,645 as of June 30, 2019 and 2018, respectively.

(p) Refundable Advances from the United States Government

Funds provided by the United States government under the Federal Perkins, Nursing and Health Professions Student Loan programs are loaned to qualified students, administered by the University,

and may be reloaned after collections. These funds are ultimately refundable to the government and are included in other long-term liabilities. These advances totaled $22,244 and $22,682 as of June 30, 2019 and 2018, respectively.

(q) Income Taxes

The University is qualified as a not-for-profit organization under Section 501(c)(3) of the Internal Revenue Code, as amended. Accordingly, it is not subject to income taxes except to the extent it has taxable income from activities that are not related to its exempt purpose. The University annually reviews its tax positions and has determined that there are no material uncertain tax positions that require recognition in the consolidated financial statements.

(r) Leases

The University conducts certain operations in leased facilities, which have minimum lease obligations under noncancelable operating leases. Certain leases contain rent escalations, renewal options, and require payments for taxes, insurance, and maintenance. Rent expense is recognized in operations as incurred, except for escalating rents, which are recognized on a straight-line basis over the life of the lease.

The University also enters into lease agreements that are classified as capital leases. Buildings and equipment under capital leases are initially recorded at the lower of the net present value of the minimum lease payments or the value of the leased asset at the inception of the lease. Depreciation expense related to capital leases totaled $5,624 in both fiscal 2019 and 2018.

(s) Derivative Financial Instruments

The University and its external investment managers are authorized to use specified derivative financial instruments in managing the assets under their control, subject to restrictions and limitations adopted by the Board of Trustees. The University uses interest rate swap agreements to manage interest rate risk associated with certain variable rate debt or to adjust its debt structure. Derivative financial instruments are measured at fair value and recognized in the consolidated balance sheets as assets or liabilities, with changes in fair value recognized in the consolidated statements of activities.

(t) Deferred Compensation Plans

The University maintains deferred compensation plans for certain employees. As of June 30, 2019 and 2018, other investments, included in other assets on the consolidated balance sheets, represent investments held by the University under these deferred compensation agreements. Such amounts approximate the University's related liability to the employees and are included in other long-term liabilities. The assets and liabilities of the deferred compensation plans are categorized in Level 1 of the fair value hierarchy. The fair value of deferred compensation plan assets as of June 30, 2019 and 2018 is $134,852 and $130,232, respectively.

(u) Statement of Cash Flows Supplemental Information

Property and equipment additions included in accounts payable and accrued expenses increased $6,885 and $8,933 as of June 30, 2019 and 2018, respectively.

(v) Recently Adopted Accounting Standards

ASU 2014-09, *Revenue from Contracts with Customers*, *as amended (Topic 606)* was issued by the FASB in May 2014 and is intended to improve the financial reporting requirements for revenue from contracts with customers. Under Topic 606, revenue from contracts with customers is recognized when control of the promised goods or services is transferred in an amount that reflects the consideration to which the University expects to be entitled in exchange for those goods or services (i.e., the transaction price). The ASU establishes a five-step model and application guidance for determining the timing and amount of revenue recognition. The related application guidance in the ASU replaces most existing revenue recognition guidance in GAAP. The ASU became effective for the University for the year ended June 30, 2019. The University's adoption of the ASU did not materially change the timing or amount of revenue recognized by the University. However, the ASU requires that tuition, fees and auxiliary student revenues be presented in the consolidated statement of activities at the transaction price, i.e., net of any institutional student aid. Previously, such revenues were presented gross, i.e., at published rates, followed by a reduction for institutional student aid. Accordingly, the University's 2018 consolidated statement of activities has been revised to conform to the 2019 presentation.

ASU 2018-08, *Clarifying the Scope and the Accounting Guidance for Contributions Received and Contributions Made*, was issued by the FASB in June 2018. The new ASU is intended to assist entities in (1) evaluating whether transactions should be accounted for as contributions (nonexchange transactions) within the scope of Topic 958, *Not-for-Profit Entities*, or as exchange transactions subject to other guidance and (2) determining whether a contribution is conditional. The ASU clarifies that a contribution is conditional if the agreement includes one or more barriers that must be overcome for the recipient to be entitled to the assets transferred and a right of return for the transferred assets or a right of release of the promisor's obligation to transfer assets. The ASU became effective for the University for the year ended June 30, 2019. The University's adoption of the ASU on a modified prospective basis did not have a material effect on its consolidated financial statements.

(w) Recent Accounting Pronouncements

In February 2016, the FASB issued 2016-02, *Leases (Topic 842)*. Under the new provisions, all lessees will report on the balance sheet a right-of-use asset and a liability for the obligation to make payments with the exception of those leases with a term of 12 months or less. The new provisions will be effective for fiscal years beginning after December 15, 2018. The University is evaluating the expected impact of this standard on its consolidated financial statements for adoption in fiscal year 2020. However, the University has concluded that the most significant effects will relate to the recognition of lease liabilities and right-of-use assets for operating leases greater than one year on the consolidated balance sheets, as well as additional disclosures about the University's leases.

(x) Reclassifications

Certain 2018 amounts have been reclassified in order to conform to the 2019 functional expense information presentation. The University reclassified $37,333 in functional expenses between contractual services and supplies, materials and other in the instruction, research and clinical practice and institutional support functions.

(2) Applied Physics Laboratory

The Applied Physics Laboratory (APL), located in Howard County, Maryland, was established during World War II with funding from the United States government. APL functions as a research facility and conducts research and development primarily in national defense and space sciences. The University owns and operates the facility and conducts research under a multiple task order contract with the United States Navy (the Navy Contract) and separate contracts with other government agencies. APL is organized as a Limited Liability Company (LLC), wholly owned by the University, and operates as a division of the University.

In accordance with an agreement between the United States government and the University, APL has been designated a national resource. Under the agreement, if the University determines that it can no longer sponsor APL or the Secretary of the Navy determines that the Navy can no longer contract with the University with respect to APL on mutually satisfactory terms, the University is required to establish a charitable trust to provide for the continued availability of the APL. The trust would be administered by five trustees and the corpus would consist of the University's interest in the APL facilities, including land to the extent necessary, and the balances in the University's APL stabilization, contingency, and research fund on the date the trust is established, less certain costs. Upon termination of the trust, the corpus, in whole or in part, as determined by the trustees, would be returned to and held and used by the University for such educational or research purposes and in such manner as the trustees and University agree.

The University works under an omnibus contract with the U.S. Navy. The most recent contract provides for a five-year initial term ending in September 2017, plus a five-year renewal option, which was exercised in February 2017 and subsequently amended in May 2019 to increase the aggregate purchase limit to $7,117,558 over the ten-year contract period ending September 2022.

Approximately 73% and 18% of APL's revenues in both fiscal years 2019 and 2018 were from the Department of Defense (primarily under the Navy Contract) and the National Aeronautics and Space Administration, respectively. Contract work includes evaluation and design of various types of missile systems and command, control, and communication systems, assessment of submarine technologies, design of space systems for precision tracking, location and navigation, and conduct of space experiments. The contracts define costs for which reimbursements may be received and provide a management fee to the University. The Navy Contract requires that a portion of the fees earned under the Navy Contract be retained and used for various purposes, including, among other things, working capital, capital projects, and reserves.

APL principally provides services under cost plus fixed-fee contracts for which revenue is recognized in the period that costs are incurred. Contract accounts receivable are recorded at invoiced amounts. The allowance for doubtful accounts is estimated based on historical trends of past-due accounts, and specific identification and review of past-due accounts.

Under ASU 2014-09, revenue from contracts with customers is recognized when control of the promised goods or services is transferred in an amount that reflects the consideration to which the University expects to be entitled in exchange for those goods or services (i.e., the transaction price).

Contracts awarded by federal and other sponsors, which are considered exchange transactions, are recognized as revenue as performance obligations are satisfied, which is generally as qualifying expenditures are incurred. Total revenue from contracts was $1,662,619 and $1,477,569 for the years ended June 30, 2019 and 2018, respectively.

Total revenue from nonexchange transactions was $23,929 and $26,655 for the years ended June 30, 2019 and 2018, respectively.

(3) Accounts Receivable

Accounts receivable, net are summarized as follows as of June 30, 2019 and 2018:

		2019	2018
Affiliated institutions, primarily the Hospital (note 11)	$	56,124	37,445
Students		23,895	19,959
Others		64,307	45,495
Total, net of allowances of $8,498 in 2019 and $8,656 in 2018		144,326	102,899
Receivables for clinical professional fees, net of explicit and implicit price concessions of $155,736 in 2019 and $153,484 in 2018		84,532	83,989
	$	228,858	186,888

The mix of gross accounts receivable for clinical professional fees from patients and third-party payors consisted of the following as of June 30, 2019 and 2018: commercial third parties 44% for both years; Medicare 20% and 21%, respectively; Medicaid 14% and 15%, respectively; Blue Cross/Blue Shield 5% and 6%, respectively; and patients 17% and 14%, respectively.

(4) Contributions Receivable

Contributions receivable, net are summarized as follows as of June 30, 2019 and 2018:

		2019	2018
Unconditional promises scheduled to be collected in:			
Less than one year	$	202,776	136,160
One year to five years		175,124	401,188
Over five years		13,925	13,825
		391,825	551,173
Less unamortized discount (interest rates ranging from 0.7% to 5.1%) and allowances for uncollectible contributions		32,280	51,023
	$	359,545	500,150

As of June 30, 2019 and 2018, 62% and 68%, respectively, of the gross contributions receivable were due from ten donors. Approximately 90% and 52% of contribution revenues for fiscal 2019 and 2018, respectively, were from ten donors. As of June 30, 2019, the University had also been informed of bequest intentions and conditional promises to give aggregating in excess of $900,000, which have not been recognized as assets or revenues. Once recognized, these gifts will generally be restricted for specific purposes stipulated by the donors, primarily endowments for faculty support, scholarships, or general operating support of a particular department or division of the University.

(5) Investments and Investment Return

The overall investment objective of the University is to invest its assets in a prudent manner that will achieve a long-term rate of return sufficient to fund a portion of its annual operating activities and increase investment value after inflation. The University diversifies its investments among various asset classes incorporating multiple strategies and managers. The Committee on Investments of the Board of Trustees oversees the University's investment program in accordance with established guidelines, which cover asset allocation and performance objectives and impose various restrictions and limitations on the managers. These restrictions and limitations are specific to each asset classification and cover concentrations of market risk (at both the individual issuer and industry group levels), credit quality of fixed-income and short-term investments, use of derivatives, investments in foreign securities, and various other matters. The managers may make use of exchange-traded interest rate futures contracts, forward currency contracts, and other derivative instruments.

Investments are summarized as follows as of June 30, 2019 and 2018:

		2019	2018
Operating investments	$	1,225,501	1,217,481
Investments		7,190,782	5,144,881
	$	8,416,283	6,362,362
Cash and cash equivalents	$	301,847	2,354
United States government and agency obligations		1,253,009	1,469,911
Debt securities		375,421	361,565
United States equities		1,107,571	699,824
International equities		801,319	934,030
Private equity and venture capital		1,240,850	792,624
Real estate		543,953	451,520
Natural resources		534,966	300,104
Marketable alternatives		2,257,347	1,350,430
	$	8,416,283	6,362,362

The following table summarizes the University's investments as of June 30, 2019 and 2018 for which NAV was used as a practical expedient to estimate fair value:

		Fair value determined using NAV		Unfunded commitments		Redemption frequency	Redemption notice period
		2019	2018	2019	2018	2019	2019
International equities	$	472,683	629,794	9,800	—	61% Monthly 21% Quarterly 12% Annually 6% 3- to 5-Year	1 to 90 days
United States equities		213,266	—	24,200	—	12% Monthly 3% Quarterly 59% Annually 26% 2- to 5-Year	1 to 90 days
Private equity and venture capital		1,197,873	792,624	639,226	406,185	N/A	N/A
Real estate		445,655	308,334	287,827	298,039	N/A	N/A
Natural resources		482,075	292,566	120,433	117,350	N/A	N/A
Marketable alternatives		2,257,347	1,350,430	221,199	129,472	See chart below	5 to 90 days [1]
	$	5,068,899	3,373,748	1,302,685	951,046		

[1] Investments that are not redeemable total $222,744 and $212,266 as of June 30, 2019 and 2018, respectively.

The commitments may be drawn down over the next several years upon request by the general partners and fund managers. The University expects to finance these commitments with available cash and expected proceeds from the sales of securities.

Marketable alternatives have the following redemption periods as of June 30, 2019 and 2018:

		2019	2018
Quarterly redemptions	$	682,513	434,754
Annual redemptions		506,839	223,213
Quarterly or annually over 1- to 3-year period		558,851	324,313
Rolling 3- to 5-year redemptions		286,400	155,884
Drawdown funds over 10-year period		222,744	212,266
	$	2,257,347	1,350,430

Information with respect to investee strategies and redemptions for those investments in funds whose fair value is estimated based upon reported NAVs follow:

(a) International Equities

This includes commingled funds that invest in publicly traded common stock of developed and emerging market companies. One fund offers annual liquidity while all other funds allow monthly or quarterly redemptions with various notice requirements ranging from 1 to 120 days.

(b) Private Equity and Venture Capital

This includes funds making investments in leveraged buyouts of both public and private companies, as well as investments in venture capital, growth-stage investing, and distressed debt. These are limited partnerships where distributions are made to investors through the liquidation of the underlying assets. It is expected to take up to 10 years to fully distribute these assets.

(c) Real Estate

This includes limited partnerships making investments in real estate. These investments make distributions to investors through the liquidation of underlying assets. It is expected to take up to 15 years to fully distribute these assets.

(d) Natural Resources

This includes limited partnerships making investments in oil and gas, timber, agriculture, minerals, and other commodities. These investments make distributions to investors through the liquidation of the underlying assets. It is expected to take up to 15 years to fully distribute these assets.

(e) Marketable Alternatives

This includes multi-strategy, credit and distressed debt, relative value, and event-driven funds in hedge fund and drawdown formats. Hedge funds have various redemption periods as summarized in the table

above, with notice requirements ranging from 20 to 90 days. Drawdown funds are limited partnerships where distributions are made to investors through the liquidation of the underlying assets. It is expected to take up to 10 years to fully distribute these drawdown funds.

Investment return is classified in the consolidated statements of activities as follows for the years ended June 30, 2019 and 2018:

		2019	2018
Without donor restrictions:			
Operating, including endowment payout	$	238,101	212,348
Nonoperating		21,617	38,360
With donor restrictions		(41,894)	122,202
	$	217,824	372,910

(6) Fair Value Measurements

The following table presents investments that are measured at fair value on a recurring basis as of June 30, 2019:

	Fair value as of June 30, 2019	Level 1	Level 2	Level 3	Funds at NAV
Operating investments:					
United States government and agency obligations	$ 872,208	872,208	—	—	—
Debt securities	353,293	182,249	171,044	—	—
Total operating investments	1,225,501	1,054,457	171,044	—	—
Investments, at fair value:					
Cash and cash equivalents	301,847	301,847	—	—	—
United States government and agency obligations	380,801	380,801	—	—	—
Debt securities	22,128	16,898	2,222	3,008	—
United States equities	1,107,571	894,305	—	—	213,266
International equities	801,319	328,636	—	—	472,683
Private equity and venture capital	1,240,850	—	—	42,977	1,197,873
Real estate	543,953	19,998	—	78,300	445,655
Natural resources	534,966	14,596	—	38,295	482,075
Marketable alternatives	2,257,347	—	—	—	2,257,347
Total investments, at fair value	7,190,782	1,957,081	2,222	162,580	5,068,899
Total investments	$ 8,416,283	3,011,538	173,266	162,580	5,068,899

The following table presents investments that are measured at fair value on a recurring basis as of June 30, 2018:

	Fair value as of June 30, 2018	Level 1	Level 2	Level 3	Funds at NAV
Operating investments:					
United States government and agency obligations	$ 874,372	874,372	—	—	—
Debt securities	343,109	143,994	199,115	—	—
Total operating investments	1,217,481	1,018,366	199,115	—	—

	Fair value as of June 30, 2018	Level 1	Level 2	Level 3	Funds at NAV
Investments, at fair value:					
Cash and cash equivalents	$ 2,354	2,354	—	—	—
United States government and agency obligations	595,539	595,539	—	—	—
Debt securities	18,456	18,456	—	—	—
United States equities	699,824	699,824	—	—	—
International equities	934,030	304,236	—	—	629,794
Private equity and venture capital	792,624	—	—	—	792,624
Real estate	451,520	18,871	—	124,315	308,334
Natural resources	300,104	7,538	—	—	292,566
Marketable alternatives	1,350,430	—	—	—	1,350,430
Total investments, at fair value	5,144,881	1,646,818	—	124,315	3,373,748
Total investments	$ 6,362,362	2,665,184	199,115	124,315	3,373,748

The methods and assumptions used to estimate the fair value of investments are defined in note 1(f).

The following table presents the University's activity for Level 3 investments measured at fair value on a recurring basis for the years ended June 30, 2019 and 2018:

	Debt securities	Private equity and venture capital	Real estate	Natural resources
Balance as of June 30, 2017	$ —	—	120,091	—
Net realized and unrealized losses	—	—	4,224	—
Sales and distributions	—	—	—	—
Balance as of June 30, 2018	—	—	124,315	—
Net realized and unrealized losses	9	—	(45,700)	—
Sales and distributions	—	—	(315)	—
Purchases and contributions	2,999	42,977	—	38,295
Balance as of June 30, 2019	$ 3,008	42,977	78,300	38,295

For the years ended June 30, 2019 and 2018, the University did not have any transfers between fair value levels.

(7) Property and Equipment

Property and equipment, net, are summarized as follows as of June 30, 2019 and 2018:

		2019	2018	Range of useful lives
Land	$	116,825	115,815	N/A
Land improvements		113,199	112,192	15 years
Buildings and leasehold improvements		3,449,885	3,338,224	10–40 years
Equipment		1,062,860	1,008,385	7–15 years
Capitalized software costs		128,035	125,453	3–10 years
Library collections		347,330	330,602	25 years
Construction in progress		217,109	144,753	N/A
		5,435,243	5,175,424	
Less accumulated depreciation and amortization		3,240,268	3,048,511	
	$	2,194,975	2,126,913	

(8) Debt

Debt is summarized as follows as of June 30, 2019 and 2018:

		2019	2018
Bonds payable, net	$	843,018	896,438
Notes payable – taxable		280,864	214,799
Commercial paper revenue notes – tax-exempt		67,169	67,169
Capital lease obligations (note 15)		63,102	68,586
	$	1,254,153	1,246,992

(a) Bonds Payable

Bonds payable were 1) issued by the Maryland Health and Higher Educational Facilities Authority (MHHEFA) or 2) taxable bonds issued directly, and consist of the following as of June 30, 2019 and 2018:

		2019	2018
Revenue Bonds Series 2005A, variable effective rate (1.83%), due July 2036	$	69,265	69,265
Taxable Bonds 2009 Series A, 5.25%, due July 2019		—	50,000
Revenue Bonds Series 2012A, 4.00% to 5.00%, due July 2041		153,150	153,150
Taxable Bonds 2013 Series A, 4.08%, due July 2053		355,000	355,000
Revenue Bonds Series 2013B, 4.25% to 5.00%, due July 2041		99,625	99,625
Taxable Bonds 2015 Series A, 3.75%, due July 2045		150,000	150,000
Subtotal		827,040	877,040
Premium and discount, net		20,495	24,116
Debt issuance cost, net		(4,517)	(4,718)
	$	843,018	896,438

The bonds payable outstanding as of June 30, 2019 and 2018 are unsecured general obligations of the University. The loan agreements generally provide for semiannual payments of interest.

(b) Notes Payable – Taxable

Notes payable – taxable consist of the following as of June 30, 2019 and 2018:

		2019	2018
Note due December 2019	$	7,907	15,169
Note due April 2020		—	50,000
Note, 2.74%, due November 2023		25,000	25,000
Note, 2.89%, due November 2024		24,030	25,000
Note, 2.90%, due November 2024		23,927	24,630
Note, 2.94%, due November 2027		25,000	25,000
Note, 3.83%, due October 2028		25,000	—
Note, 3.92%, due November 2028		50,000	—
Notes, 4.16%, due May 2048		50,000	50,000
Note, 4.50%, due November 2049		50,000	—
	$	280,864	214,799

The note due December 2019 is secured by certain of the University's property and bears interest at a fixed rate of 8.88%. The note is due in annual installments.

The note due April 2020, in the principal amount of $50,000, was an unsecured general obligation of the University and bore interest at a variable rate, 2.42% as of June 30, 2018. The note was retired in November 2018.

The notes due November 2023 through November 2049 are unsecured general obligations of the University.

(c) Commercial Paper

Under the commercial paper program, the University may have commercial paper outstanding of up to $400,000. The notes are unsecured, bear interest at rates that are fixed at the date of issue and may have maturities up to 270 days from the date of issue. The notes outstanding as of June 30, 2019 bear interest at a weighted average rate of 1.52%.

The tax-exempt commercial paper revenue notes were issued by MHHEFA to finance and refinance the costs of qualified assets. It is anticipated that the University will continuously renew maturing notes for a period of up to 120% of the estimated useful lives of the related assets.

(d) Interest Costs

Total interest costs incurred and paid were $51,551 in 2019 and $53,519 in 2018, of which $4,114 in 2019 and $3,074 in 2018 were capitalized.

(e) Other Credit Agreements

The University maintains standby liquidity and line of credit agreements with several commercial banks as follows:

Amount	Maturity	Purpose
$ 100,000	March 2020	Revolving line of credit
100,000	November 2020	Standby liquidity agreement
50,000	December 2020	Standby liquidity agreement
150,000	March 2020	Lines of credit
50,000	July 2020	Line of credit

To support liquidity under the bond and commercial paper revenue notes programs, the University has two standby liquidity agreements with commercial banks. These agreements are intended to enable the University to fund the purchase of variable rate demand bonds, which are tendered and not remarketed, and to pay the maturing principal of and interest on commercial paper notes in the event they cannot be remarketed. Advances under these agreements are unsecured, bear interest at a rate that varies based on certain market indices, and are due by the stated expiration date unless extended by a term loan. There were no borrowings under any of the University's standby credit facilities during fiscal 2019 and 2018.

The University may borrow up to $100,000 under a revolving line of credit designated for working capital purposes at APL. Advances under the revolving line of credit are unsecured, due on demand, and bear interest at a rate that varies based on certain market indices. There were no borrowings outstanding on the revolving line of credit as of June 30, 2019 and 2018.

(f) Interest Rate Swap Agreements

Under interest rate swap agreements, the University and the counterparties agree to exchange the difference between fixed rate and variable rate interest amounts calculated by reference to specified notional principal amounts during the agreement period. Notional principal amounts are used to express the volume of these transactions, but the cash requirements and amounts subject to credit risk are substantially less.

The following table summarizes the general terms of the University's fixed payor swap agreements as of June 30, 2019:

Effective date	Notional amount	Termination date	Interest rate paid	Interest rate received
June 2005	$ 69,265	July 2036	3.87%	SIFMA, 1.9% as of June 30, 2019
July 2007	7,290	July 2027	3.45	67.0% of 1-month LIBOR, 1.61% as of June 30, 2019
July 2008	27,565	July 2020	3.43	67.0% of 1-month LIBOR, 1.61% as of June 30, 2019
Total	$ 104,120			

Parties to interest rate swap agreements are subject to market risk for changes in interest rates and risk of credit loss in the event of nonperformance by the counterparty.

The fair value of each swap is the estimated amount the University would receive or pay to terminate the swap agreement at the reporting date considering current interest rates and creditworthiness of the swap counterparties. The aggregate fair value of the University's interest rate swap agreements as of June 30, 2019 and 2018 was a liability of $23,971 and $16,139, respectively, excluding accrued interest, and is reported as other long-term liabilities. Changes in the fair value of the interest rate swap agreements are reported as nonoperating activities. The change in fair value was a loss of $7,832 in fiscal 2019 and a gain of $5,978 in fiscal 2018.

The University is required to post collateral under these agreements when certain thresholds are exceeded. As of June 30, 2019 and 2018, these thresholds were met and no collateral was posted.

(g) Annual Principal Payments

The following table summarizes the aggregate annual maturities of bonds payable, notes payable, and the maturities of specific tax-exempt commercial paper revenue note tranches, for the five fiscal years subsequent to June 30, 2019:

Fiscal year	Bonds payable	Notes payable	Commercial paper notes	Total
2020	$ 8,595	9,570	—	18,165
2021	8,590	2,719	—	11,309
2022	8,595	2,826	—	11,421
2023	16,655	3,823	—	20,478
2024	8,060	30,567	7,310	45,937
Thereafter	776,545	231,359	59,859	1,067,763
	$ 827,040	280,864	67,169	1,175,073

Due to requirements to pay the trustee in advance of the payment due date, scheduled maturities in the table above are reflected in the fiscal year that they will be paid to the trustee.

(9) Net Assets

Net assets without donor restrictions consists of the following as of June 30, 2019 and 2018:

	2019	2018
Net investment in plant	$ 940,822	879,921
Board designated endowment funds	973,320	958,270
Undesignated	1,163,535	1,151,118
	$ 3,077,677	2,989,309

Net assets with donor restrictions consists of the following as of June 30, 2019 and 2018:

	2019	2018
Donor-restricted endowment funds	$ 5,302,619	3,232,250
Contributions receivable for endowment	118,466	222,940
Contributions receivable for operating	174,237	197,910
Contributions restricted for facilities	116,326	96,232
Land subject to time and purpose restrictions	26,300	71,000
Perpetual trusts for scholarship and program support	61,157	60,322
Other contributions, including annuities and other trusts	320,279	309,493
	$ 6,119,384	4,190,147

Other contributions, including annuities and other trusts are restricted for faculty support, research, and program support.

(10) University Endowment

The University's endowment consists of approximately 4,100 individual funds established for a variety of purposes and includes both donor-restricted endowment funds and funds designated by the Board of Trustees to function as endowments. Net assets associated with endowment funds are classified and reported based on the existence or absence of donor-imposed restrictions.

The Board of Trustees of the University has interpreted the Maryland enacted version of Uniform Prudent Management of Institutional Funds Act (UPMIFA) as allowing the University to appropriate for expenditure or accumulate so much of an endowment fund as the University determines is prudent for the uses, benefits, purposes, and duration for which the endowment fund is established, subject to the intent of the donor as expressed in the gift instrument.

The Board of Trustees of the University manages and invests the individual endowment funds in the exercise of ordinary business care and prudence under facts and circumstances and considering the purposes, factors, and other requirements of UPMIFA. The University classifies as net assets with donor restrictions (a) the original value of gifts donated, which are donated to the endowment, (b) the original value of subsequent gifts to the endowment, and (c) accumulations to the endowment, which are not expendable on a current basis in accordance with the directions of the applicable donor gift instrument at the time the accumulation is added to the fund. At times, the fair value of individual donor restricted endowment funds may be in an underwater position (fall below historical book value) and are reported in net assets with donor restrictions. With respect to underwater endowments the spending occurs only to the extent that the fair value of the endowment fund is 75% of historical book value.

The University has adopted investment policies for its endowment, including board-designated funds, which attempt to provide a predictable stream of funding in support of the operating budget, while seeking to preserve the real value of the endowment assets over time. The University relies on a total return strategy under which investment returns are achieved through both appreciation (realized and unrealized) and yield (interest and dividends). Investments are diversified by asset class, as well as by investment manager and style, with a focus on achieving long-term return objectives within prudent risk constraints.

Subject to the intent of the donor, the Board of Trustees appropriates for expenditure or accumulates funds in the endowments in the exercise of ordinary business care and prudence under the facts and circumstances and considering the purposes, factors, and other requirements of UPMIFA. The annual appropriation is determined in the context of the University's spending rate policy. The current policy, which is based on a long-term investment return assumption as well as an estimated inflation factor, targets the appropriation to be in a range of 4.5% to 5.5% of the prior three years' average value of the endowment.

Endowment net assets consist of the following as of June 30, 2019:

		Without donor restrictions	With donor restrictions	Total
Investments by type of fund:				
Donor-restricted endowments:				
Historical gift value	$	—	4,483,000	4,483,000
Appreciation		—	819,619	819,619
Board-designated endowments		973,320	—	973,320
Total endowment net assets	$	973,320	5,302,619	6,275,939

Endowment net assets consist of the following as of June 30, 2018:

		Without donor restrictions	With donor restrictions	Total
Investments by type of fund:				
Donor-restricted endowments:				
Historical gift value	$	—	2,405,921	2,405,921
Appreciation		—	826,329	826,329
Board-designated endowments		958,270	—	958,270
Total endowment net assets	$	958,270	3,232,250	4,190,520

As of June 30, 2019 and 2018, donor-restricted endowments with original gift values of $244,503 and $93,454 were underwater by $1,077 and $239, respectively. These deficits resulted from unfavorable market fluctuations that occurred shortly after the investment of newly established endowments and authorized appropriation that was deemed prudent.

Changes in endowment net assets for the years ended June 30, 2019 and 2018 are as follows:

		Without donor restrictions	With donor restrictions	Total
Endowment net assets, June 30, 2017	$	1,002,871	2,741,880	3,744,751
Investment return		77,609	253,356	330,965
Contributions and designations		30,642	267,648	298,290
Appropriation for expenditure		(41,960)	(141,526)	(183,486)
Endowment reclass		(110,892)	110,892	—
Endowment net assets, June 30, 2018		958,270	3,232,250	4,190,520
Investment return		41,413	144,934	186,347
Contributions and designations		18,634	2,077,208	2,095,842
Appropriation for expenditure		(44,997)	(151,773)	(196,770)
Endowment net assets, June 30, 2019	$	973,320	5,302,619	6,275,939

As a result of the fiscal year 2018 adoption of ASU 2016-14, *Presentation of Financial Statements of Not-for-Profit Entities,* the University conducted a review of endowments classified as without donor restrictions and determined some endowments were misclassified due to a policy change. This resulted in an FY18 endowment reclass of $110,892 from net assets without donor restrictions to net assets with donor restrictions.

Endowments are to be utilized for the following purposes as of June 30, 2019:

		Without donor restrictions	With donor restrictions	Total
Faculty support	$	290,870	1,679,825	1,970,695
Scholarship support		168,052	2,631,509	2,799,561
Program support		394,430	458,734	853,164
Research		119,968	532,551	652,519
	$	973,320	5,302,619	6,275,939

Endowments are to be utilized for the following purposes as of June 30, 2018:

	Without donor restrictions	With donor restrictions	Total
Faculty support	$ 282,530	1,567,012	1,849,542
Scholarship support	165,977	733,415	899,392
Program support	392,343	439,108	831,451
Research	117,420	492,715	610,135
	$ 958,270	3,232,250	4,190,520

(11) Affiliated Institutions

Reimbursements from affiliated institutions consist of the following for the years ended June 30, 2019 and 2018:

	2019	2018
Johns Hopkins Health System	$ 42,819	50,588
Johns Hopkins Hospital	323,490	293,478
Johns Hopkins Bayview Medical Center	81,260	77,689
Other Johns Hopkins entities	124,633	122,899
Other affiliated medical institutions	26,255	25,995
	$ 598,457	570,649

(a) The Johns Hopkins Health System (JHHS)

JHHS is incorporated and governed separately from the University and is the parent entity of an academically based health system, which includes the Hospital, Johns Hopkins Bayview Medical Center, Howard County General Hospital, Suburban Hospital, Sibley Memorial Hospital, All Children's Hospital, and other related organizations. The University and JHHS have established a Board of Johns Hopkins Medicine (JHM) to direct, integrate, and coordinate the clinical activities of the two organizations. JHM does not have the authority to incur debt or issue guarantees and its annual budgets require the approval of the Boards of Trustees of both the University and JHHS.

Reimbursements from JHHS relate primarily to purchased services for clinical and nonclinical operations.

(b) The Hospital

The Hospital is a member of JHHS and serves as the primary teaching facility of the University's School of Medicine. Because of the closely related nature of their operations, the University and the Hospital share facilities and provide services to each other to fulfill their purposes more effectively. The sharing of facilities and services is negotiated annually and set forth in a Joint Administrative

Agreement (JAA). Charges to the Hospital under the JAA, related primarily to the provision of professional medical services from the University, aggregated $229,354 in fiscal 2019 and $224,230 in fiscal 2018. Charges to the University under the JAA, related primarily to contractual services, aggregated $48,820 in fiscal 2019 and $47,089 in fiscal 2018, and are included in operating expenses in the consolidated statements of activities.

(c) Johns Hopkins Bayview Medical Center (JHBMC)

JHBMC is a community-based teaching hospital and long-term care facility. The University and JHBMC also share facilities and provide services to each other and negotiate the costs annually under a JAA. Charges to JHBMC under the JAA, related primarily to the provision of professional medical services from the University, aggregated $75,874 in fiscal 2019 and $73,200 in fiscal 2018.

(d) The Johns Hopkins Hospital Endowment Fund Incorporated (JHHEFI)

In July 2007, the University and JHHEFI entered into an agreement whereby JHHEFI transferred approximately $381,000 to the University to invest in the University's Endowment Investment Pool (EIP) and have the University manage these assets on JHHEFI's behalf. The funds were invested with other University assets in the University's name and title, and in accordance with the University's EIP investment policies and objectives. JHHEFI receives payouts as determined by their Board of Trustees and may terminate the agreement upon 180 days' written notice with liquidations to be made over a three-year period as specified in the agreement. The assets are included in investments in the consolidated balance sheets, and a corresponding liability of $502,375 and $501,217 is included in endowment and similar funds held for others as of June 30, 2019 and 2018, respectively. The corresponding liability has a fair value measurement of Level 3. JHHEFI's assets represent approximately 9.9% of the combined investment pool of $5,055,993 as of June 30, 2019.

(e) Jointly Owned Entities

As of June 30, 2019 and 2018, the University and JHHS and its affiliates jointly own several entities that are accounted for on the equity method. The University's aggregate investments in and advances to these joint ventures was approximately $297,274 and $294,320 as of June 30, 2019 and 2018, respectively. Equity in operating earnings of affiliates aggregated approximately $7,613 in fiscal 2019 and $19,589 in fiscal 2018.

In 2005, one of these entities, JHMI Utilities LLC, was formed to provide utility services for the East Baltimore campus. The University and Hospital, each owning 50% of JHMI Utilities LLC, provide all of its funding, including debt service, through payments for services received. Utility and telecommunications services provided to the University in fiscal 2019 and 2018 were approximately $31,895 and $32,136, respectively. JHMI Utilities LLC entered into an agreement with the University to finance a portion of the costs of installation of an enterprise information technology system that will provide integrated patient care information and service across JHM. The project has been successfully implemented with the total project cost at approximately $277,200 as of June 30, 2019. The cost of implementing the enterprise information technology strategy was financed through a combination of loans from, or guarantees by, the University and JHHS. The University has committed to funding up to $36,800 of the project. As of June 30, 2019 and 2018, $19,500 and $20,952, respectively, was

outstanding on the loan. In addition, the University has agreed to guarantee a pooled loan of up to $16,800.

Although the University's ownership interest in each of the jointly owned entities is generally 50%, the University and JHHS have entered into separate agreements whereby certain activities or lines of business within these entities are not shared equally.

The following table summarizes the aggregate condensed financial information of the jointly owned entities and the University's proportionate share of the entities as of and for the years ended June 30, 2019 and 2018, respectively:

	2019		2018	
	Total	University interest	Total	University interest
Assets	$ 1,298,710	588,185	1,264,217	583,303
Liabilities	832,480	372,761	812,429	376,808
Operating revenues	2,812,007	1,181,709	2,672,243	1,153,492
Operating expenses	2,787,401	1,174,096	2,614,578	1,133,902

(12) Pension and Postretirement Benefit Plans

The University has several benefit plans that are available to substantially all full-time employees. Most of these plans are defined contribution plans for which the University's policy is to fund benefit costs as earned. The University also has a defined benefit pension plan covering bargaining unit employees and those classified as support staff. Benefit plan expenses were $249,164 in fiscal 2019 and $242,787 in fiscal 2018, including $229,224 and $215,957, respectively, related to defined contribution plans. Of the total benefit expense, APL's defined contribution plan accounted for $81,167 in fiscal 2019 and $75,487 in fiscal 2018.

Effective July 1, 2011, the University closed the support staff pension plan to new participants other than bargaining unit employees. In addition, the University offered a choice to current participants between the current support staff pension plan and its 403(b) plan. The University has retiree benefits plans that provide postretirement medical benefits to employees, including those at APL, who meet specified minimum age and service requirements at the time they retire. The University pays a portion of the cost of participants' medical insurance coverage. The University's portion of the cost for an individual participant depends on various factors, including the age, years of service, and time of retirement or retirement eligibility of the participant. The University has established a trust fund for its retiree benefits plans and intends to make contributions to the fund approximately equal to the annual net postretirement benefit cost.

Effective July 1, 2018, APL adopted an amendment to the postretirement medical plan for employees who retired after December 31, 2012. For those employees, the percentage of premium paid by APL would become a fixed dollar amount beginning in 2021 and it would be based on the premium rates of 2020. The plan change increased the accumulated postretirement benefit obligation by $9,272 for the year ended June 30, 2019.

In 2010, the Patient Protection and Affordable Care Act and the Health Care and Education Reconciliation Act (collectively, the Health Care Acts) were signed into law. The Health Care Acts include several provisions that may affect the University's postretirement benefit plans, and have been considered in the measurement of the postretirement benefit obligation.

The University uses a June 30 measurement date for its defined benefit pension plan and retiree benefit plans. Information relating to the benefit obligation, assets, and funded status of the defined benefit pension plan and the postretirement benefit plans as of and for the years ended June 30, 2019 and 2018 is summarized as follows:

	Pension plan		Postretirement plans	
	2019	2018	2019	2018
Change in benefit obligation:				
Benefit obligation at beginning of year	$ 691,268	697,585	245,014	277,368
Service cost	13,978	15,664	7,034	7,824
Interest cost	28,592	26,915	9,720	9,674
Participant contributions	—	—	10,718	10,840
Plan amendment	—	—	9,272	—
Actuarial loss (gain)	77,036	(27,655)	6,868	(40,798)
Benefits paid	(22,145)	(21,241)	(21,547)	(21,025)
Medicare subsidies received	—	—	940	1,131
Benefit obligation at end of year	788,729	691,268	268,019	245,014
Change in plan assets:				
Fair value of plan assets at beginning of year	531,825	495,292	303,740	286,689
Actual return on plan assets	30,075	30,944	18,665	20,446
University contributions	19,940	26,830	—	5,659
Participant contributions	—	—	10,643	10,840
Benefits paid	(22,145)	(21,241)	(21,547)	(21,025)
Medicare subsidies received	—	—	940	1,131
Fair value of plan assets at end of year	559,695	531,825	312,441	303,740
Funded status recognized as pension and postretirement obligations, net	$ (229,034)	(159,443)	44,422	58,726

The accumulated benefit obligation for the pension plan was $763,194 and $668,452 as of June 30, 2019 and 2018, respectively.

The table below reflects the net pension and postretirement benefit cost reported in operating as benefits expense and nonoperating as other net periodic benefit cost for the years ended June 30, 2019 and 2018:

	Pension plan		Postretirement plans	
	2019	2018	2019	2018
Operating:				
Service cost	$ 13,978	15,664	7,034	7,824
Total operating, included in benefits	13,978	15,664	7,034	7,824
Nonoperating:				
Interest cost on accumulated benefit obligation	28,592	26,915	9,720	9,674
Amortization of prior service credit (cost)	(167)	(167)	350	(788)
Expected return on plan assets	(31,944)	(29,379)	(20,994)	(19,796)
Amortization of actuarial loss (gain)	9,481	13,797	(946)	65
Total nonoperating	5,962	11,166	(11,870)	(10,845)
Total net pension and postretirement benefit cost (credit)	$ 19,940	26,830	(4,836)	(3,021)

The table below reflects the changes in plan assets and benefits obligations recognized as nonoperating items for the years ended June 30, 2019 and 2018:

	Pension plan		Postretirement plans	
	2019	2018	2019	2018
Net loss (gain) for the year	$ 78,906	(29,221)	9,199	(41,444)
New unrecognized prior service cost	—	—	9,272	—
Amortization of prior service credit (cost)	167	167	(350)	788
Amortization of net gain (loss)	(9,481)	(13,797)	946	(65)
Net loss (gain) recognized in nonoperating activities	$ 69,592	(42,851)	19,067	(40,721)

The table below reflects the amortization of amounts expected to be recognized as components of net periodic benefit expense in nonoperating activities during fiscal 2020:

	Pension plan	Postretirement plans
Net loss	$ (15,579)	(78)
Prior service credit (cost) amortization	167	(350)
	$ (15,412)	(428)

The weighted average assumptions used to determine benefit obligations and net periodic benefit costs are as follows:

	Pension plan		Postretirement plans	
	2019	2018	2019	2018
Weighted average assumptions used to determine benefit obligations at June 30:				
Discount rate	3.50 %	4.18%	3.42%–3.56%	4.14%–4.21%
Average rate of compensation increase	2.90	2.90	N/A	N/A
Rate of increase in healthcare costs for next year	N/A	N/A	6.30	6.60
Weighted average assumptions used to determine net periodic benefit cost:				
Discount rate	4.18 %	3.90%	4.14%–4.21%	3.80%–3.94%
Expected rate of return on plan assets	6.75	6.75	7.00	7.00
Rate of compensation increase	2.90	2.90	N/A	N/A
Rate of increase in healthcare costs	N/A	N/A	6.60	6.90

The expected long-term rate of return for the assets of the plans is based on historical and expected long-term future asset class returns. The rate is reviewed annually and adjusted as appropriate to reflect changes in projected market performance or in the targeted asset allocations.

The rate of increase in healthcare costs was assumed to begin with an initial rate of 6.6% in 2019 and decrease to 4.5% in 2036 and to remain at that level thereafter. Assumed healthcare cost trend rates have

a significant effect on the reported postretirement benefit cost and obligation. A one-percentage-point change in the assumed rates used at June 30, 2019 would have the following effects:

	Increase	Decrease
Total service and interest cost components	$ 303	(278)
Postretirement benefit obligation	6,656	(5,981)

(a) Plans' Assets

The purpose of the pension and postretirement plans is to meet the retirement benefit obligations of eligible University employees. The plans' assets are invested with the objective of meeting these obligations under the rules stipulated by the Employee Retirement Income Security Act.

An asset allocation has been established, which endeavors to adequately cover the liability stream posed by the beneficiaries of the plans and minimize the frequency and amount of the plans' contributions by the University. The intended benefits of this diversification are reduced risk and improved investment returns.

(b) Pension Plan

The following table presents the fair value and categorization within the fair value hierarchy of the assets of the defined benefit pension plan as of June 30, 2019 and 2018:

	2019			2018		
	Total	Level 1	Funds at NAV	Total	Level 1	Funds at NAV
Cash and cash equivalents	$ 170	170	—	445	445	—
Fixed income securities	203,656	195,711	7,945	172,219	164,159	8,060
United States equities and international equities	275,814	275,814	—	259,486	259,486	—
Real assets	—	—	—	20,737	—	20,737
Marketable alternatives	80,055	—	80,055	78,938	—	78,938
Total	$ 559,695	471,695	88,000	531,825	424,090	107,735

(c) Postretirement Plans

The following table presents the fair value and categorization within the fair value hierarchy of the assets of the postretirement plans as of June 30, 2019 and 2018:

	2019			2018		
	Total	Level 1	Funds at NAV	Total	Level 1	Funds at NAV
Cash and cash equivalents	$ 2,481	2,481	—	3,532	3,532	—
Fixed income securities	92,038	92,038	—	87,609	87,609	—
United States equities and international equities	175,372	175,372	—	170,162	170,162	—
Marketable alternatives	42,550	—	42,550	42,437	—	42,437
Total	$ 312,441	269,891	42,550	303,740	261,303	42,437

The Plans have no unfunded commitments to fund managers as of June 30, 2019 and 2018.

The University's target asset allocations for the pension plan and the postretirement plans as of June 30, 2019 and 2018:

	Pension plan		Postretirement plans	
	2019	2018	2019	2018
Fixed income securities	30 %	30 %	35 %	35 %
United States equities and international equities	55	55	55	55
Real estate	5	5	—	—
Marketable alternatives	10	10	10	10
Total	100 %	100 %	100 %	100 %

(d) Cash Flows

The University expects to contribute $27,300 to the pension plan in fiscal 2020.

The benefits expected to be paid and Medicare subsidies to be received in the five years subsequent to June 30, 2019 and in aggregate for the five fiscal years thereafter are as follows:

Fiscal year	Pension plan	Postretirement plans	Medicare subsidies
2020	$ 27,684	11,840	1,751
2021	29,392	12,735	525
2022	31,230	13,490	550
2023	32,984	14,184	576
2024	34,760	14,851	597
2025–2029	198,153	81,748	3,372

(13) Functional Expense Information

Operating expenses by nature and function are summarized as follows for the year ended June 30, 2019:

	2019 Programs							
	Instruction, research and clinical practice	APL	Student services	Auxiliaries	Libraries	Total programs	Institutional support	Total expenses
Compensation	$ 1,826,521	761,393	56,958	17,993	15,931	2,678,796	230,721	2,909,517
Benefits	482,055	338,237	16,841	4,776	4,437	846,346	67,436	913,782
Subcontractors and subrecipients	330,044	188,058	—	—	—	518,102	—	518,102
Contractual services	521,281	68,111	39,587	36,399	7,590	672,968	180,179	853,147
Supplies, materials and other	404,935	160,748	12,090	29,686	8,535	615,994	36,068	652,062
Depreciation	96,544	63,125	4,760	8,123	15,917	188,469	34,794	223,263
Travel	119,636	29,767	4,710	498	396	155,007	7,982	162,989
Interest	29,992	92	1,252	2,721	805	34,862	9,656	44,518
Total	$ 3,811,008	1,609,531	136,198	100,196	53,611	5,710,544	566,836	6,277,380

Operating expenses by nature and function are summarized as follows for the year ended June 30, 2018:

	2018 Programs							
	Instruction, research and clinical practice	APL	Student services	Auxiliaries	Libraries	Total programs	Institutional support	Total expenses
Compensation	$ 1,734,475	688,533	56,853	17,143	16,069	2,513,073	225,020	2,738,093
Benefits	447,689	325,010	16,686	4,237	4,332	797,954	67,472	865,426
Subcontractors and subrecipients	323,009	151,112	—	—	—	474,121	—	474,121
Contractual services	502,171	65,480	37,517	36,233	7,002	648,403	133,458	781,861
Supplies, materials and other	398,147	129,251	11,132	29,012	8,739	576,281	27,077	603,358
Depreciation	92,458	58,445	4,517	7,897	15,107	178,424	32,769	211,193
Travel	114,692	26,364	3,983	454	426	145,919	7,685	153,604
Interest	31,186	1,397	1,312	2,889	840	37,624	9,959	47,583
Total	$ 3,643,827	1,445,592	132,000	97,865	52,515	5,371,799	503,440	5,875,239

Costs related to the operation and maintenance of property, including depreciation of property and equipment and interest on related debt, are allocated to program and supporting activities based upon periodic inventories of facilities. Other net periodic benefit costs recorded in nonoperating expense were $(5,908) and $321 for the years ended June 30, 2019 and 2018, respectively.

(14) Liquidity and Availability

The University regularly monitors liquidity required to meet its operating needs and other contractual commitments, while also striving to maximize the investment of its available funds.

As of June 30, 2019, the following assets could readily be available within one year to meet general expenditures:

	2019	2018
Cash and cash equivalents	$ 347,007	262,356
Operating investments	1,001,292	1,027,478
Sponsored research accounts receivable, net	489,650	456,291
Accounts receivable, net	228,858	186,888
Contributions receivable, net	94,089	51,742
Approved endowment payout for upcoming fiscal year	326,650	204,797
Investments in and loans to affiliates	6,980	7,569
Payout from interests in trusts and endowment funds held for others	5,317	4,336
Financial assets available to meet general expenditures over the next year	$ 2,499,843	2,201,457

The University has various sources of liquidity at its disposal, including cash and cash equivalents, marketable debt securities, a line of credit for working capital purposes, and a commercial paper facility.

The University's cash flows have seasonal variations during the year attributable to tuition billings, patient service billings and concentration of contributions received at calendar and fiscal year-end. Operating investments have been reduced for an estimate of expenditures that will occur on grants and gifts beyond one year, as well as, cash received for capital contributions. Principal and interest on student loans are not included as those amounts are used solely to make new loans and are, therefore, not available to meet current operating needs. Based on historical experience, only the portion of contributions receivable for operations expected to be received within one year is considered liquid. Investments in and loans to affiliates include only the loan principal payments due from affiliates in the next year.

(15) Lease Commitments

The University leases other facilities used in its academic and research operations under long-term operating leases expiring at various dates to 2032, subject to renewal options in certain cases. Certain of these facilities are leased from affiliated entities.

The aggregate annual minimum guaranteed rents to be paid to the expiration of the initial terms of these leases are as follows as of June 30, 2019:

		Affiliates	Others	Total
2020	$	16,620	34,506	51,126
2021		13,486	31,332	44,818
2022		12,107	26,328	38,435
2023		8,215	21,264	29,479
2024		6,394	20,128	26,522
After 2024		23,088	38,827	61,915
	$	79,910	172,385	252,295

Rental expense for the long-term operating leases was $54,440 and $48,517 in fiscal 2019 and 2018, respectively.

The University also leases building and leasehold improvements and certain equipment under capital leases. The following is a summary of minimum lease payments for these leases as of June 30, 2019:

2020	$	7,987
2021		8,050
2022		8,283
2023		8,524
2024		8,772
After 2024		42,842
Minimum lease payments		84,458
Less imputed interest (at rates from 3.24% to 8.41%)		21,356
Present value of minimum lease payments	$	63,102

As of June 30, 2019, the gross amount of assets and accumulated depreciation thereon accounted for as capital leases amounted to $95,149 and $51,043, respectively.

(16) Other Commitments and Contingencies

(a) Guarantees

The University and the Hospital have also provided guarantees of principal and interest payments related to loans granted to JHMI Utilities LLC under the MHHEFA Pooled Loan Program. As of June 30, 2019, the University's guarantee amounted to $16,761 and continues until maturity of the loans occurring through 2029.

(b) Regulatory and Legal Matters

Amounts received and expended by the University under various federal and state programs are subject to audit by governmental agencies. In the opinion of management, audit adjustments, if any, will not have a material adverse effect on the financial position of the University.

The University is subject to various claims, litigation, tax, and other assessments in connection with its domestic and foreign operations. In the opinion of management, adequate provision has been made for losses on these matters, where material, including insurance for malpractice and general liability claims, and their ultimate resolution will not have a material adverse effect on the financial position of the University.

(i) Specific Matters

Estate of Arturo Giron Alvarez, et al. v. The John Hopkins University, et al., Case No: 1:15-cv-00950-MJG (D. Md.). On April 1, 2015, the above-styled complaint was filed against The Johns Hopkins University (the University), its Bloomberg School of Public Health and its School of Medicine, The Johns Hopkins Health System Corporation and The Johns Hopkins Hospital (collectively, the Johns Hopkins Defendants), as well as another institution and a pharmaceutical company (collectively, defendants). The claims arose from human experiments conducted in Guatemala between 1946 and 1948 (the Study) under the auspices of the United States Public Health Service, the Guatemala government, and the Pan-American Sanitary Bureau. Now on their third amended complaint, plaintiffs allege that physicians and scientists employed by defendants approved, encouraged, and directed nonconsensual and nontherapeutic human experiments in Guatemala, in which research subjects were intentionally exposed to and infected with venereal diseases without informed consent, and that the individuals were not advised about the consequences of the experiments or given follow-up care, treatment, or education. The third amended complaint alleges claims under both the Guatemala civil code and the federal Alien Tort Statute (the ATS), and seeks compensatory damages in excess of $75 and punitive damages of $1,000,000. The Johns Hopkins Defendants dispute both the factual allegations and legal claims. The Johns Hopkins Defendants have also advised us that they did not initiate, pay for, direct, or conduct the Study. In 2010, the United States government accepted responsibility for the Study and apologized to all who were affected by it. A prior lawsuit against officials of the United States government for the same injuries alleged in the suit against the Johns Hopkins Defendants was dismissed; see Garcia v. Sebelius, 867 F.Supp. 2d 125, 144 (D.D.C. 2012).

On August 30, 2017, the Court issued a memorandum decision dismissing all of plaintiffs' Guatemala law claims, but denying defendants' motion to dismiss the third amended complaint with respect to the ATS claims. On May 16, 2018, defendants filed a motion for judgment on the pleadings, based upon the Supreme Court's decision in Jesner v. Arab Bank, PLC, 138 S. Ct.1386 (2018), which holds that the ATS does not authorize federal courts to create federal common law causes of action against foreign corporations, as doing so would usurp Congress's role and violate the separation of powers. Defendants argued that although the Supreme Court's formal holding applied to foreign corporations – the only type of corporation that was a party to the case – the Supreme Court's reasoning should apply to domestic corporations as well. On January 3, 2019, the Honorable Theodore D. Chuang denied the motion, declining to extend the majority's reasoning in Jesner to domestic corporations. On April 23, 2019, however, Judge Chuang granted defendants' Motion to Certify Interlocutory Appeal, and on May 17, 2019, the Fourth Circuit granted defendants' petition for permission to appeal. Defendants' opening brief was submitted on July 29, 2019.

In the meantime, expert discovery has closed and the bulk of the factual discovery has been completed. Summary judgment motions are due on November 14, 2019.

(17) Subsequent Events

The University evaluated subsequent events through October 22, 2019, which is the date the consolidated financial statements were issued. There were no additional matters that required adjustment to or disclosure in the consolidated financial statements.

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Research and Development Cluster:				
Applied Physics Laboratory (APL)				
Department of Agriculture Direct Programs:				
Agriculture and Food Research Initiative	10.310	Direct	$ —	(71)
Department of Agriculture Total – APL			—	(71)
National Oceanic and Atmospheric Administration Direct Programs:				
National Oceanic and Atmospheric Administration Programs	11.UNKNOWN	Direct	—	578,401
National Oceanic and Atmospheric Administration Total – APL			—	578,401
Department of Defense:				
Navy: Basic and Applied Scientific Research	12.300	Direct	115,841	1,412,316
Cornell University	12.300	72804-10350	—	(827)
George Mason University	12.300	E2044951	—	20,249
University of South Florida	12.300	1201-1021-00-A	—	86,106
Subtotal			115,841	1,517,844
Military Medical Research and Development	12.420	Direct	—	58,996
University of Pittsburgh	12.420	0055367 (413528-1)	—	5,849
Subtotal			—	64,845
Basic Scientific Research	12.431	Direct	322,723	918,740
Duke University	12.431	313-0835	—	59,863
Subtotal			322,723	978,603
Uniformed Services University Medical Research Projects	12.750	Direct	—	366,038
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	12.750	3835/905761	—	20,862
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	12.750	3767/908044	—	39,431
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	12.750	4651/950134	—	59,372
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	12.750	4797	—	13,455
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	12.750	4814/962460	—	62,799
Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.	12.750	2425	—	2,483
Subtotal			—	564,440
Air Force Defense Research Sciences Program	12.800	Direct	10,080	1,001,077
University of Texas	12.800	26-0201-51-62	—	213,602
Subtotal			10,080	1,214,679
Department of Defense	12.UNKNOWN	Direct	93,919,068	1,230,994,352
2 Circle, Inc.	12.UNKNOWN	2C2018AWS-01	—	40,024
Assett, Inc.	12.UNKNOWN	2017-003	—	476,628
CFD Research Corp	12.UNKNOWN	9243	—	288
CFD Research Corp	12.UNKNOWN	9,246	—	169,362
CFD Research Corp	12.UNKNOWN	9177-15	—	380
Continental Controls	12.UNKNOWN	CC&D PO 4410	—	33
Echo Ridge LLC	12.UNKNOWN	ER2016-PO-03	—	120,222
Florida State University	12.UNKNOWN	FSU R00864	—	301
Freent Technologies	12.UNKNOWN	HQ7107-1-2017	—	233,681
Harvard University	12.UNKNOWN	123723-5043737	—	(1)
INT Tech	12.UNKNOWN	JHU-APL FA8222-005	—	287
INT Tech	12.UNKNOWN	JHU-APL N-16-4151	61,319	115,705
Intelligent Automation	12.UNKNOWN	2222-4	—	1,755
Linkplus Corp.	12.UNKNOWN	LPC-001	—	(339)
Makai Ocean Engineering, Inc.	12.UNKNOWN	MOE-SUB-2018-001	—	10,303
Plasmonics, Inc.	12.UNKNOWN	0002	—	761
Plasmonics, Inc.	12.UNKNOWN	APLARL001	—	64,929
Plasmonics, Inc.	12.UNKNOWN	APLARL002	—	16,397
Plasmonics, Inc.	12.UNKNOWN	APLONR001	—	82,000
Pacific Science and Engineering Group, Inc.	12.UNKNOWN	18-1-0259	2,326	348,189
Planetary Science Institute	12.UNKNOWN	6047-43780	—	(996)
RDRTec, INC.	12.UNKNOWN	4335-APL-2018-01 (REV 01)	—	13,241
Sentient Science	12.UNKNOWN	SS2017-1215	—	428
Soartech Technologies	12.UNKNOWN	10383-02_SC-18-020	—	63,205
Soartech Technologies	12.UNKNOWN	SC-17-017	—	21,018
Sysense, Inc.	12.UNKNOWN	2009-001	—	103
Wagner	12.UNKNOWN	9500-001	—	343
Subtotal			93,982,713	1,232,772,599
Department of Defense Total – APL			94,431,357	1,237,113,010
Department of Interior:				
Department of Interior	15.UNKNOWN	Direct	—	1
Scribe Biosciences	15.UNKNOWN	01	—	242,116
Scribe Biosciences	15.UNKNOWN	02	—	46,805
Subtotal			—	288,922
Department of Interior Total – APL			—	288,922
Department of Justice:				
National Institute of Justice Research, Evaluation, and Development Project Grants	16.560	Direct	1,250	419,931
Department of Justice	16.UNKNOWN	Direct	41,715	2,754,435
Department of Justice Total – APL			42,965	3,174,366
Department of State:				
Department of State	19.UNKNOWN	Direct	44,687	2,455,850
Department of State Total – APL			44,687	2,455,850
Department of Transportation:				
Department of Transportation	20.UNKNOWN	Direct	—	1,655,933
Department of Transportation Total – APL			—	1,655,933
National Aeronautics and Space Administration:				
Science	43.001	Direct	2,251,459	13,765,967
Aeolis Research Inc.	43.001	AR002	—	9,802
Aerospace	43.001	4600005864	—	15,679

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Andrews University	43.001	220304	$ —	69,296
Andrews University	43.001	220306	—	97
Arizona State University	43.001	15-728	—	41,820
Boston University	43.001	4500001622	—	(718)
Boston University	43.001	4500002708	—	969
Boston University	43.001	4500003038	—	36
Brown University	43.001	00000805	—	28,647
Cornell University	43.001	77067-10932	—	436
Dartmouth College	43.001	R1059	512	198,041
Dartmouth College	43.001	R1131	—	3,988
Embry-Riddle Aeronautical University	43.001	61536-1	—	25
George Mason University	43.001	E2045061	—	280
Montana State University	43.001	G190-18-W7153	—	20,386
North Carolina State University	43.001	2016-3138-01	—	28,559
Plancius Research	43.001	2018-08-0001	—	42,706
Planetary Science Institute	43.001	1336	—	19,631
Planetary Science Institute	43.001	1557 JHU APL	—	10
Planetary Science Institute	43.001	1528-JHU-APL	—	15,633
Planetary Science Institute	43.001	1542-JHU/APL	—	20,659
Purdue University	43.001	4103-62413	—	9,621
Purdue University	43.001	17034087	—	1,812
Smithsonian Astrophysical Observatory	43.001	GO5-16001X	—	196
Smithsonian Astrophysical Observatory	43.001	DD5-16076X	—	2,167
SETI Institute	43.001	SC 3263	—	236
Space Telescope Science Institute	43.001	HST-GO-13492.01-A/115954	—	5,458
Southwest Research Institute	43.001	K99096CT	—	19,280
The Aeorspace Corporation	43.001	4,600,006,505	—	905
Universities Space Research Association	43.001	5721.01	—	96
University Corporation for Atmospheric Research	43.001	SUBAWD000389	—	64,708
University Corporation for Atmospheric Research	43.001	SUBAWD000261	—	37,290
University Corporation for Atmospheric Research	43.001	SUBAWD000132	—	852
University Corporation for Atmospheric Research	43.001	SUBAWD001148	—	50
University of Colorado	43.001	1554848	—	9,199
University of Idaho	43.001	AMK148-SB-001	—	27,416
University of Maryland	43.001	61787-Z6072201	—	29,647
University of Maryland	43.001	68221-Z6167201	—	6,988
University of Maryland	43.001	65773-Z6124202	—	2,952
University of Massachusetts	43.001	17-009264 A	—	26,722
University of Nevada	43.001	UNR 19-28	—	1,119
University of Tennessee	43.001	A18-0377-S001	—	33,004
University of Tennessee	43.001	A16-1253-S001	—	14,720
Subtotal			2,251,971	14,576,387
Cross Agency Support	43.009	Direct	—	118
Space Technology	43.012	Direct	—	32
National Aeronautics and Space Administration	43.UNKNOWN	Direct	82,393,502	279,781,187
Asrc Federal	43.UNKNOWN	ESE5-00229	—	49
Asrc Federal	43.UNKNOWN	ESE5-00425	—	813
Asrc Federal	43.UNKNOWN	05232016	—	10
Arizona State University	43.UNKNOWN	15-707	—	41,074
Arizona State University	43.UNKNOWN	11-553	686	173,495
Arizona State University	43.UNKNOWN	11-605	—	62,445
Arizona State University	43.UNKNOWN	17-208	—	281
Arizona State University	43.UNKNOWN	17-256	—	131,474
Genesis Engineering	43.UNKNOWN	LETTER CONTRATCOF4/6/09	—	387
Honeybee Robotics	43.UNKNOWN	484.SBC.001	—	28,741
New Jersey Institute of Technology	43.UNKNOWN	996575	—	535,464
Plasma Processes LLC	43.UNKNOWN	6006-029-JK-092618REV2	—	26,859
Princeton University	43.UNKNOWN	SUB0000158	459	697,981
Princeton University	43.UNKNOWN	SUB0000192	—	30,151
Southwest Research Institute	43.UNKNOWN	499879Q	496,212	1,131,506
Southwest Research Institute	43.UNKNOWN	599768Q	—	3,784
Southwest Research Institute	43.UNKNOWN	699044X	1,264	1,268,654
Southwest Research Institute	43.UNKNOWN	699082KC	—	(1,430)
Southwest Research Institute	43.UNKNOWN	692005N	—	202,344
Southwest Research Institute	43.UNKNOWN	D99024L	—	(7,481)
Southwest Research Institute	43.UNKNOWN	J99037LW	—	25
Southwest Research Institute	43.UNKNOWN	K99032MEC	3,851,636	10,954,008
Southwest Research Institute	43.UNKNOWN	L99002VS	—	82
Southwest Research Institute	43.UNKNOWN	M99014PK	—	10,773
University of California – Los Angeles	43.UNKNOWN	2090-S-SA444	—	142,298
University of California – Los Angeles	43.UNKNOWN	0995-S-SA812	20,250	432,648
University of Arizona	43.UNKNOWN	Y551879	—	6,075
University of Arizona	43.UNKNOWN	284925	—	131
University of Arizona	43.UNKNOWN	Y603234	—	2,063,950
University of California	43.UNKNOWN	00008211	—	32,921
University of Texas	43.UNKNOWN	UTA16-001082	—	258,540
Subtotal			86,764,009	298,009,239
National Aeronautics and Space Administration Total – APL			89,015,980	312,585,776
National Science Foundation:				
Engineering Grants	47.041	Direct	—	3,017
Mathematical and Physical Sciences	47.049	Direct	—	13,418
Geosciences	47.050	Direct	104,625	2,065,512
Stanford University	47.050	61667147-122389	—	19,234
Subtotal			104,625	2,084,746
Computer and Information Science and Engineering	47.070	Direct	—	113,067
National Science Foundation Total – APL			104,625	2,214,248
Department of Energy:				
Office of Science Financial Assistance Program	81.049	Direct	—	63,460
Nuclear Energy Research, Development and Demonstration	81.121	Direct	3,626	1,100

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Collaborative Research: Interactive Effects of Altered Rainfall Timing and Warming on Soil Processes and Plant Responses In Grassland	81.409	Direct	$ —	89,151
Los Alamos National Security: Department of Energy	81.UNKNOWN	453084	—	36,486
Sandia National Laboratories	81.UNKNOWN	1905112	—	248,141
Sandia National Laboratories	81.UNKNOWN	2026151	—	211,183
Lawrence Livermore National Laboratory	81.UNKNOWN	LLNL B621535	—	145,697
Subtotal			—	641,507
Department of Energy Total – APL			3,626	795,218
Department of Health and Human Services:				
State of Oregon: Public Health Emergency Preparedness	93.069	134673	—	19,956
Research on Healthcare Costs, Quality and Outcomes	93.226	Direct	—	43,343
Colorado Tri-County Health Department: Centers for Disease Control and Mental Health Research Grants	93.242	Direct	82,327	895,992
Prevention Investigations and Technical Assistance	93.283	E4459	—	3,946
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Direct	—	453,640
Protecting and Improving Health Globally: Building and Strengthening Public Health Impact, Systems, Capacity and Security	93.318	Direct	—	72,356
National Center for Advancing Translational Sciences	93.350	Direct	—	91,403
Maryland Department of Health and Mental Hygiene: Public Health Emergency Response: Cooperative Agreement for Emergency Response: Public Health Crisis Response	93.354	FY19-JHUAPL-PHCROPIOID-G1	—	1,539
Transmission and Prevention Control, Public Health Preparedness, Vaccine	93.823	Direct	—	32,573
Cardiovascular Diseases Research	93.837	Direct	—	56
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	Direct	—	47,772
Vision Research	93.867	Direct	—	18
Department of Health and Human Services	93.UNKNOWN	Direct	2,500	931,942
Fedpoint Systems LLC	93.UNKNOWN	FEDPOINT001	—	22,741
Subtotal			2,500	954,683
Department of Health and Human Services Total – APL			84,827	2,617,277
Executive Office of the President				
Executive Office of the President	95.UNKNOWN	Direct	—	1,195,066
Executive Office of the President Total – APL			—	1,195,066
Department of Homeland Security:				
District of Columbia Government: Homeland Security Grant Program	97.067	16UASI137-01	—	1,476
District of Columbia Government	97.067	17UASI137-01	—	272,071
District of Columbia Government	97.067	18UASI137-01	—	17,187
Subtotal			—	290,734
Department of Homeland Security	97.UNKNOWN	Direct	393,098	34,137,476
SRS TECHNOLOGIES	97.UNKNOWN	WG-07-S-034	—	945
Subtotal			393,098	34,138,421
Department of Homeland Security Total – APL			393,098	34,429,155
Director of National Intelligence:				
Director of National Intelligence	99.UNKNOWN	Direct	2,427,913	20,794,726
Lear Corporation	99.UNKNOWN	LEAR JHUAPL SUB	—	109
Subtotal			2,427,913	20,794,835
Director of National Intelligence Total – APL			2,427,913	20,794,835
United States Government – Classified:				
United States Government – Classified	99.UNKNOWN	Direct	6,021,358	73,985,954
United States Government – Classified Total – APL			6,021,358	73,985,954
Research and Development Cluster Total – APL			192,570,436	1,693,883,940
Other Divisions:				
Department of Agriculture:				
Agricultural Research Basic and Applied Research	10.001	Direct	—	105,285
Agricultural Research Basic and Applied Research	10.001	DAA2-17-62963-1	—	(23)
Agricultural Research Basic and Applied Research	10.001	DAA2-17-62983-1	—	(3,073)
U.S. Civilian Research and Development Foundation	10.001	DAA3-18-64089-1	—	53,584
Subtotal			—	155,773
University of Delaware: Agricultural and Rural Economic Research, Cooperative Agreements and Collaborations	10.250	42734	56,129	122,677
University of Kentucky Research Foundation: Consumer Data and Nutrition Research	10.253	3200000900-17-240	—	8,995
Agriculture and Food Research Initiative	10.310	Direct	392,805	1,024,717
Albany State University	10.310	2017-67024-26278-02	—	113,424
Albany State University	10.310	ASU-2016-0001	—	11,135
Cornell University	10.310	85012-11041	—	36,455
West Virginia University	10.310	15-788-JHU	—	(569)
Subtotal			392,805	1,185,162
Maryland Department of Health and Mental Hygiene: Special Supplemental Nutrition Program for Women, Infants, and Children	10.557	M00B4400529	—	1,912,951
Department of Agriculture Total – Other Divisions			448,934	3,385,558
National Oceanic and Atmospheric Administration:				
Sea Grant Support	11.417	Direct	—	4,261
Fisheries Development and Utilization Research and Development Grants and Cooperative Agreements Program	11.427	Direct	24,249	55,808
Climate and Atmospheric Research	11.431	Direct	—	157,142
Rand Corporation	11.431	Z768601	—	86,831
Subtotal			—	243,973
National Oceanic and Atmospheric Administration Total – Other Divisions			24,249	304,042

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
National Institute of Standards and Technology:				
Measurement and Engineering Research and Standards	11.609	Direct	$ —	14,215
University of Delaware: Arrangements for Interdisciplinary Research Infrastructure	11.619	0000049472	—	123,742
University of Delaware	11.619	PC1.0-12	—	63,389
University of Delaware	11.619	0000053427	—	3,032
Subtotal			—	190,163
Science,. Technology, Business and/or Education Outreach	11.620	Direct	—	137,790
National Institute of Standards and Technology Total – Other Divisions			—	342,168
United States Department of Commerce				
Department of Defense:				
Wake Forest University: Department of Defense Excess Equipment	12.000	WFUHS 330606	—	13,508
Basic and Applied Scientific Research	12.300	Direct	1,256,107	6,606,363
Brown University	12.300	00001129	—	266,864
Brown University	12.300	N00014-16-1-2355	—	155,436
University of Massachusetts	12.300	18-010270 A 00	—	324,501
University of Minnesota	12.300	A006141806	—	211,081
University of Nevada Las Vegas	12.300	17-259-00/GR08554	—	(6,025)
University of Notre Dame	12.300	203369JHU	—	48,693
University of Utah	12.300	10049662-JHU	—	27,800
Subtotal			1,256,107	7,634,713
Department of Defense HIV/AIDS Prevention Program	12.350	Direct	—	11,385,304
Basic Scientific Research – Combating Weapons of Mass Destruction	12.351	Direct	211,015	1,074,425
University of Maryland College Park	12.351	Z9041101 PO 23729	—	2,580
University of Maryland College Park	12.351	18471-Z9405003	—	82,999
Subtotal			211,015	1,160,004
Military Medical Research and Development	12.420	Direct	4,456,450	24,977,033
Baylor College of Medicine	12.420	W81XWH-17-1-0579	—	18,136
Carolinas Healthcare System	12.420	300301433 (A18-0259-	—	90,701
Childrens Research Institute	12.420	30004403	—	24,832
CMC Corp – Boston Childrens Hospital	12.420	RSTFD0000683593	—	36,734
Henry M. Jackson Foundation	12.420	3159	—	17,386
Kennedy Krieger Institute	12.420	90081865	—	19,494
Massachusetts Eye and Ear Infirmary	12.420	38029	—	34,096
Massachusetts Eye and Ear Infirmary	12.420	W81XWH-14-1-0187	—	31,286
Memorial Sloan-Kettering Cancer Center	12.420	BD516977C	—	768
National Trauma Institute	12.420	NTI-CLOTT17-03	—	56,189
National Trauma Institute	12.420	NTI-MIMIC17-02	—	191,683
Purdue University	12.420	13000691-020	—	68,547
Tissue Testing Technologies, LLC	12.420	90077036	—	40,020
University of Alabama at Birmingham	12.420	000422086-013	—	56,481
University of California San Diego	12.420	95921678	—	21,737
University of California San Diego	12.420	105637007	—	15,557
University of California San Diego	12.420	W81XWH-17-2-0051	—	21,983
University of California San Francisco	12.420	10780sc	—	18,384
University of Iowa	12.420	S00523-01	—	28,839
University of Maryland Baltimore County	12.420	18491	—	2,409
University of Maryland Baltimore	12.420	SR00002886	—	296,484
University of Massachusetts Medical Center	12.420	WA00339038	—	(214)
University of Miami	12.420	SPC-000962	—	13,988
University of Michigan	12.420	3003957277	—	61,944
University of Michigan	12.420	3003630941	—	(5,095)
University of Michigan	12.420	SUBK00009615	—	23,506
University of Pittsburgh	12.420	0041321 (409701-1)	—	81,884
University of Pittsburgh	12.420	0023106 (407565-1)	—	87,789
University of Texas-Dallas	12.420	1604938	—	59,191
Vanderbilt University Medical Center	12.420	VUMC 69451	—	111,281
Vanderbilt University Medical Center	12.420	VUMC37447	—	193,421
Vanderbilt University Medical Center	12.420	VUMC63707	—	20,002
Veterans Bio-Medical Research Institute	12.420	W81XWH-17-1-0549-Sub	—	1,740
Wake Forest University	12.420	WFUHS 441061	—	(10,720)
Wake Forest University	12.420	WFUHS 441058 ER-08	43,092	122,513
Wake Forest University	12.420	WFUHS 441081 CF-11	—	106,144
Wake Forest University	12.420	WFUHS 441036 CTA-06	—	134,439
Wake Forest University	12.420	WFUHS 441035 CTA-05	—	227,543
Subtotal			4,499,542	27,298,135
Basic Scientific Research	12.431	Direct	705,932	2,227,673
National Center for Manufacturing Sciences	12.431	201843-130707	—	199,811
Tufts University	12.431	W911-NF-16-1-0095	—	264,390
Subtotal			705,932	2,691,874
Basic, Applied, and Advanced Research in Science and Engineering	12.630	Direct	6,094,444	12,040,061
Henry M. Jackson Foundation: Uniformed Services University Medical Research	12.750	2998	—	179,501
Henry M. Jackson Foundation	12.750	4725	—	4,785
Subtotal			—	184,286
Air Force Defense Research Sciences Program	12.800	Direct	214,553	2,078,137
Cornell University	12.800	76123-10591	—	291,895
Florida State University	12.800	R01891	—	148,947
Montana State University College of Engineering	12.800	G140-18-W6947	—	10,312
Ohio State University	12.800	60038238	—	140,116
University of Maryland College Park	12.800	38061-Z8165002	—	163,356
University of Maryland College Park	12.800	43636-Z8184001	—	12,299
University of New Mexico	12.800	707824-8727	—	127,298
University of Washington – Applied Physics Lab	12.800	UWSC7987	—	215,462
Subtotal			214,553	3,187,822
Language Grant Program	12.900	Direct	—	150
Mathematical Sciences Grants Program	12.901	Direct	—	3,900
Information Security Grants	12.902	Direct	—	127,024
Maryland Procurement Office	12.902	H98230-16-D-0026	156,009	7,084,016
Subtotal			156,009	7,211,040

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Research and Technology Development	12.910	Direct	$ 2,276,890	6,814,298
Baylor College of Medicine	12.910	HR0011-18-0025	—	19,931
BBN Technologies	12.910	14544	—	599,876
Brown University	12.910	00001312	—	59,399
Massachusetts Institute of Technology	12.910	5710004017	—	129,073
Montana State University College of Engineering	12.910	G166-19-W7329	—	36,284
Rutgers University	12.910	5880	24,563	27,810
University of Colorado	12.910	1553838	—	596
University of Colorado Boulder	12.910	1557226	—	82,784
Subtotal			2,301,453	7,770,051
Department of Defense	12.UNKNOWN	Direct	273,311	6,076,197
Academy of Applied Science	12.UNKNOWN	W911SR-15-2-001	—	4,000
Aimdyn Corporation	12.UNKNOWN	HR0011-18-9-0033	—	66,621
Akita Innovations	12.UNKNOWN	90076286	—	44,690
Antiradical Therapeutics LLC	12.UNKNOWN	SanFlow: A Therapeut	—	4,799
Applied Research LLC	12.UNKNOWN	109-1	—	117,048
Ashvattha Therapeutics LLC	12.UNKNOWN	90082755	—	131,292
BAE Systems, Inc.	12.UNKNOWN	848178-10	—	11,342
Booz Allen Hamilton, Inc.	12.UNKNOWN	S900294BAH	—	97,680
Brimrose Corporation of America	12.UNKNOWN	90077677	—	35,658
Charles Stark Draper Laboratory	12.UNKNOWN	DL-H-543166	—	242
DCS Corp	12.UNKNOWN	APX02-008	—	62,593
Dog Star Technologies	12.UNKNOWN	90076467	—	78,849
Engineering Research and Consulting, Inc.	12.UNKNOWN	PS170051	—	8,877
General Electric Corporation	12.UNKNOWN	401119022	—	206,733
Henry M. Jackson Foundation	12.UNKNOWN	90077649	—	6,047
Henry M. Jackson Foundation	12.UNKNOWN	873925	—	(652)
Intelligent Computing Machines LLC	12.UNKNOWN	90083429	—	73,507
Intermountain Medical Center	12.UNKNOWN	W81XWH-17-PRMRP-IRA	—	83,514
Juxtopia LLC	12.UNKNOWN	JXTCDMRP15-1	—	(137,241)
Luna Innovations Incorporated	12.UNKNOWN	Subcontract: 332702J	—	234,554
Massachusetts Institute of Technology	12.UNKNOWN	PO 12-7000354785	—	169,788
Nalas Engineering Services	12.UNKNOWN	HDTRA1-17-C-0060	—	258,037
National Trauma Institute	12.UNKNOWN	NTRAP-18-03	—	25,638
Northrop Grumman Corporation	12.UNKNOWN	PO 8140000949	—	192,719
NorthShore University HealthSystem Research Institute	12.UNKNOWN	EH15-036-S2	—	26,577
Raytheon Systems	12.UNKNOWN	90013	—	224,412
Reservoir Labs	12.UNKNOWN	STTR MDA17-T002	—	30,000
Resurgo LLC	12.UNKNOWN	SC-JHU-2016-001	—	8,840
Special Aerospace Services LLC	12.UNKNOWN	SC-JHU-2016-001	—	11,035
Stottler Henke	12.UNKNOWN	90082252	—	10,818
Survice Engineering Company	12.UNKNOWN	s17-085011	—	30,610
Survice Engineering Company	12.UNKNOWN	s19-085001	—	4,361
Tissue Testing Technologies LLC	12.UNKNOWN	90078414	—	55,508
Triwest Healthcare Alliance	12.UNKNOWN	90075750	—	2,415
Triwest Healthcare Alliance	12.UNKNOWN	M67400-14-T-0248	—	(610)
University of California San Francisco	12.UNKNOWN	8399sc	—	16,968
University of Illinois at Chicago	12.UNKNOWN	A003571407	—	36,245
Valneva Austria GMBH	12.UNKNOWN	VLA1701	—	380,228
Wet Labs, Inc.	12.UNKNOWN	F2010-001	—	39
Xerox Corp.	12.UNKNOWN	P312359	—	(12,010)
X-therma, Inc.	12.UNKNOWN	KK1867	—	20,946
X-therma, Inc.	12.UNKNOWN	W81XWH-16-C-0066	—	84,631
Subtotal			273,311	8,783,545
Department of Defense Total – Other Divisions			15,712,366	89,364,393
Central Intelligence Agency:				
Central Intelligence Agency	13.UNKNOWN	Direct	—	(144,924)
Central Intelligence Agency Total – Other Divisions			—	(144,924)
Department of Housing and Urban Development:				
General Research and Technology Activity	14.506	Direct	410,395	797,771
Department of Housing and Urban Development Total – Other Divisions			410,395	797,771
Department of Interior:				
University of Maryland College Park: Department of Interior	15.UNKNOWN	54663-Z9108201	—	302,813
Department of Interior Total – Other Divisions			—	302,813
Department of Justice:				
OVW Technical Assistance Initiative	16.526	Direct	84,385	198,971
National Institute of Justice Research, Evaluation, and Development Project Grants	16.560	Direct	106,078	464,773
Research Triangle Institute	16.560	1-340-0215514-65041L	—	473,103
University of Nevada Las Vegas	16.560	16-921L-00	—	16,615
University of Virginia	16.560	GG11826 150671	—	206,623
University of Virginia	16.560	GG11917151334	—	186,706
Subtotal			106,078	1,347,820
Crime Victim Assistance/Discretionary Grants	16.582	Direct	—	159,307
Governor's Office of Crime Control: Project Safe Neighborhoods	16.609	PSNM-2016-0038	—	(86)
Baltimore City Public Schools: Department of Justice	16.UNKNOWN	90069163	—	122,413
Chesapeake Regional Information Systems	16.UNKNOWN	90068927	—	(2,837)
Governor's Office of Crime Control	16.UNKNOWN	DEXB7400035	—	31,184
Urban Institute	16.UNKNOWN	08929-000-00-JHU-01	—	(6,132)
Subtotal			—	144,628
Department of Justice Total – Other Divisions			190,463	1,850,640

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Department of State:				
Aspen Institute: Professional and Cultural Exchange Programs – Citizen Exchanges	19.415	90076156	$ 97,133	198,717
Department of State Total – Other Divisions			97,133	198,717
Department of Transportation:				
University Transportation Centers Program: Texas A&M University	20.701	12-S171236	—	132,059
Department of Transportation Total – Other Divisions			—	132,059
National Aeronautics and Space Administration:				
Science	43.001	Direct	376,131	4,114,189
Aeolis Research	43.001	AR001	—	16,171
Boston University	43.001	4500002360	—	9,940
Drexel University	43.001	850021_JHU	—	17,983
Duke University	43.001	343-0541	—	63,845
Jet Propulsion Laboratory	43.001	1594154	—	52,495
Jet Propulsion Laboratory	43.001	1599551	—	22,074
Jet Propulsion Laboratory	43.001	1609871	—	27,002
Jet Propulsion Laboratory	43.001	1617548	—	31,175
Million Concepts LLC	43.001	1	—	1,566
Rochester Institute of Technology	43.001	31977-01	—	9,861
Smithsonian Astrophysical Observatory	43.001	AR7-18011X	—	28,432
Smithsonian Astrophysical Observatory	43.001	G06-17092X	—	20,672
Smithsonian Astrophysical Observatory	43.001	G08-19001C	—	3,000
Smithsonian Astrophysical Observatory	43.001	GO6-17078B	—	10,700
Southwest Research Institution	43.001	H99076CT	—	10,639
Southwest Research Institution	43.001	K99089JRG	—	158,360
Space Telescope Science Institute	43.001	51242	—	5,913
State University of New York at Stony Brook	43.001	67732	—	31,476
University of Arizona	43.001	384295	—	72,039
University of Arizona	43.001	466909	—	2,066
University of Maryland College Park	43.001	58019-Q1525201	—	1,227
Universities Space Research Association	43.001	0570006	—	117,580
Virginia Polytechnic Institute	43.001	426704-19446	—	1,043
Subtotal			376,131	4,829,448
Aeronautics	43.002	Direct	—	151,368
Jet Propulsion Laboratory	43.002	1408487	—	83,149
Subtotal			—	234,517
Exploration	43.003	Direct	—	591,076
Education	43.008	Direct	—	1,016,393
Cross Agency Support	43.009	Direct	—	736,181
Space Technology	43.012	Direct	—	188,104
Michigan Technological University	43.012	1607060Z5	—	106,380
Subtotal			—	294,484
National Aeronautics and Space Administration	43.UNKNOWN	Direct	137,167	1,266,107
Alcyon, Inc.	43.UNKNOWN	NNG15CR66C Oct Autho	—	508,153
ASRC Federal	43.UNKNOWN	METSB0046	—	(142)
Baylor College of Medicine	43.UNKNOWN	NCC9582	—	(167,320)
Jet Propulsion Laboratory	43.UNKNOWN	1548315	—	105,830
Southwest Research Institution	43.UNKNOWN	F99082DRC	—	27,053
Space Telescope Science Institution	43.UNKNOWN	49721	—	7,488
Space Telescope Science Institution	43.UNKNOWN	51152	—	26,753
Space Telescope Science Institution	43.UNKNOWN	HST-AR-14325.002-A	—	451
Space Telescope Science Institution	43.UNKNOWN	HST-AR-14592.001-A	—	26,746
Space Telescope Science Institution	43.UNKNOWN	HST-AR-15012.001-A	—	52,761
Space Telescope Science Institution	43.UNKNOWN	HST-AR-15052.001-A	—	6,823
Space Telescope Science Institution	43.UNKNOWN	HST-AR-15632.005-A	—	12,303
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13294.017-A	—	24,899
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13334.01-A	—	3,725
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13364.38-A	—	16,778
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13678.001-A	—	20,895
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13743.001-A	—	23,709
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13773.006-A	—	3,239
Space Telescope Science Institution	43.UNKNOWN	HST-GO-13862.001-A	—	6,853
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14059.002-A	—	(404)
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14069.005-A	—	(7)
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14071.001-A	—	8,844
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14119.001-A	—	33,063
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14155.008-A	—	21,774
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14164.010-A	—	6,853
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14206.001-A	—	15,492
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14211.002-A	—	12,803
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14268.009-A	—	600
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14608.001-A	—	19,254
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14617.002-A	—	8,475
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14638.002-A	—	6,931
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14689.005-A	—	51,148
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14694.001-A	—	20,564
Space Telescope Science Institution	43.UNKNOWN	HST-GO-14755.002-A	—	6,842
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15062.004-A	—	11,689
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15145.001-A	—	148,782
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15146.001-A	—	43,359
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15173.01-A	—	21,599
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15180.002-A	—	14,932
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15186.001-A	—	10,444
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15216.001-A	—	3,393
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15269.001-A	—	89,719
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15285.002-A	—	8,264

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15317.001-A	$ —	3,724
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15340.001-A	—	39,010
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15341.001-A	—	35,574
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15419.003-A	—	55,006
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15469.004-A	—	19,243
Space Telescope Science Institution	43.UNKNOWN	HST-GO-15640.001-A	—	12,683
Space Telescope Science Institution	43.UNKNOWN	JWST-ERS-01366.062-A	—	5,921
Space Telescope Science Institution	43.UNKNOWN	STI-503633	—	345,122
Space Telescope Science Institution	43.UNKNOWN	STSCI-51038	—	24,685
Trident Vantage Systems	43.UNKNOWN	TVS-2018-09-001	—	69,781
University of Arizona	43.UNKNOWN	414786	—	2,815
Universities Space Research Association	43.UNKNOWN	SOF 05-0041	—	26,864
Universities Space Research Association	43.UNKNOWN	SOF-06-0015	—	6,583
Universities Space Research Association	43.UNKNOWN	SOF-06-0017	—	23,410
Universities Space Research Association	43.UNKNOWN	SOF-06-0022	—	28,499
Subtotal			137,167	3,236,437
National Aeronautics and Space Administration Total – Other Divisions			513,298	10,938,536
National Endowment for the Humanities:				
Promotion of the Humanities Division of Preservation and Access	45.149	Direct	—	33,435
Brown University	45.149	00001298	—	23,485
Subtotal			—	56,920
University of Nebraska: Promotion of the Humanities Research	45.161	25-1620-0040-003	—	2,746
Promotion of the Humanities Office of Digital Humanities	45.169	Direct	—	92,348
National Endowment for the Humanities Total – Other Divisions			—	152,014
Institute of Museum and Library Services:				
Museums for America	45.301	Direct	—	49,032
National Leadership Grants	45.312	Direct	—	39,140
Institute of Museum and Library Services Total – Other Divisions			—	88,172
National Science Foundation:				
Engineering Grants	47.041	Direct	1,091,710	6,840,621
Accelevir Diagnostics LLC	47.041	1738428	—	22,915
Clemson University	47.041	1887-206-2011582	—	12,159
Columbia University	47.041	1(GG012507-02)	—	63,009
Columbia University	47.041	1S(GG012507-03)	—	2,500
Cornell University	47.041	82179-10928	—	87,315
Rutgers University	47.041	5804	—	154,099
University of California Irvine	47.041	2015-3267	—	60,455
University of Delaware	47.041	50280	—	19,341
University of Maryland Baltimore County	47.041	20168	—	6,268
University of Pittsburgh	47.041	0056171(012000-1)	—	20,077
University of Massachusetts Lowell	47.041	S52100000033927	—	19,546
Western Michigan University	47.041	JHU8789	—	6,812
Subtotal			1,091,710	7,315,117
Mathematical and Physical Sciences	47.049	Direct	264,035	9,794,737
Cornell University	47.049	75737-10673	—	650,949
National Radio Astronomy Observatory	47.049	354304	—	14,162
National Radio Astronomy Observatory	47.049	SOSPA6-013	—	1,528
North Carolina State University	47.049	2018-0220-01	—	574
Princeton University	47.049	SUB0000151	—	305,905
Princeton University	47.049	SUB0000176	—	44,874
University of Illinois Urbana Champaign	47.049	2014-00657-03(15790)	—	211,989
University of Wisconsin Madison	47.049	630K265	—	392,594
Subtotal			264,035	11,417,312
Geosciences	47.050	Direct	105,359	1,478,651
Massachusetts Institute of Technology	47.050	5710003464	—	262,393
University of Colorado	47.050	1554463	—	3,559
University of Utah	47.050	10040652-JHU	—	73,387
University of Wyoming	47.050	1002799 – JHU	—	5,985
Subtotal			105,359	1,823,975
Computer and Information Science and Engineering	47.070	Direct	148,074	7,124,325
Indiana University	47.070	BL-4812517-JHU	—	49,102
Indiana University	47.070	BL-4812534-JHU	—	9,220
Massachusetts Institute of Technology	47.070	5710004104	—	(11,448)
University of Maryland College Park	47.070	52679-Z3106201	—	1,491
Virginia Polytechnic Institute	47.070	320486-19446	—	13,377
Subtotal			148,074	7,186,067
Biological Sciences	47.074	Direct	11,994	4,410,757
Cary Institute of Ecosystem Studies	47.074	3335/200201938	—	5,296
Cary Institute of Ecosystem Studies	47.074	3392 200201974	—	366
Cold Spring Harbor Laboratory	47.074	52560315	—	48,980
Cold Spring Harbor Laboratory	47.074	52580213 PO920983SV	—	227,134
Cold Spring Harbor Laboratory	47.074	52670113/PO921029-SV	—	18,000
Penn State University	47.074	5670-JHU-NSF-1497	—	120,911
University of California Los Angeles	47.074	0830 G TA328	—	156,651
University of Illinois Urbana Champaign	47.074	092629-17184	—	22,443
University of Georgia	47.074	RC284-652/S001173	—	19,200
University of North Carolina	47.074	5108643	—	41,138
University of North Carolina	47.074	5-37036	—	(2,117)
Subtotal			11,994	5,068,759
Social, Behavioral, and Economic Sciences	47.075	Direct	542,282	1,422,556
Montclair State University	47.075	1650861-JHU	—	47,999
NORC at the University of Chicago	47.075	5987.JHU.00	—	25,179
University of Maryland College Park	47.075	1540916	—	4,348
University of Michigan	47.075	3003986094	—	8,538
Subtotal			542,282	1,508,620

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Education and Human Resources	47.076	Direct	$ 155,193	5,064,743
University of Wisconsin Madision	47.076	782K482	—	59,936
Subtotal			155,193	5,124,679
Office of International Science and Engineering	47.079	Direct	46,433	105,765
U.S. Civilian Research and Development Foundation	47.079	OISE-17-63221	—	26,682
U.S. Civilian Research and Development Foundation	47.079	USB1-31147-XX-13	—	167,865
Subtotal			46,433	300,312
University of Maryland College Park: Office of Cyberinfrastructure	47.080		—	105,383
Nanofiber Solutions: National Science Foundation	47.UNKNOWN	90072290	—	746
Pathovax LLC	47.UNKNOWN	90077467	—	43,167
University of Notre Dame	47.UNKNOWN	90062704	—	8,000
Subtotal			—	51,913
National Science Foundation Total – Other Divisions			2,365,080	39,902,137
Department of Veteran Affairs:				
Department of Veteran Affairs	64.UNKNOWN	Direct	—	52,275
Veterans Education and Research Association	64.UNKNOWN	VERANNE1506	—	3,150
Reefpoint Group LLC	64.UNKNOWN	0045-18-JHM-001	—	30,935
Department of Veteran Affairs Total – Other Divisions			—	86,360
Environmental Protection Agency:				
Science to Achieve Results (STAR) Research Program	66.509	Direct	120,750	732,083
University of Washington	66.509	UWSC10111	—	46,397
Yale University	66.509	GK000291(CON80000090)	—	80,133
Yale University	66.509	GK000292(CON-8000009)	—	51,950
Yale University	66.509	GK000597(CON80000091)	—	238,235
Yale University	66.509	GK000598(CON-8000009)	—	5,244
Yale University	66.509	GK000599(CON-8000009)	—	73,664
Subtotal			120,750	1,227,706
Swarthmore College: Environmental Protection Agency	66.UNKNOWN	83555501	—	(3,848)
Environmental Protection Agency Total – Other Divisions			120,750	1,223,858
Department of Energy:				
Office of Science Financial Assistance Program	81.049	Direct	557,679	5,261,218
Fermi National Accelerator Laboratory	81.049	652719	—	18,303
Sirius Thinking Ltd	81.049	90081653	—	6,818
University of California Riverside	81.049	S-000685	—	149,529
University of Delaware	81.049	51427	—	52,060
University of New Mexico	81.049	889445-8727	—	169,592
Subtotal			557,679	5,657,520
Conservation Research and Development	81.086	Direct	—	(204)
Renewable Energy Research and Development	81.087	Direct	69,716	164,974
3M Corp	81.087	3500520384	—	111,164
University of Vermont	81.087	31576SUB52264	—	239,213
Subtotal			69,716	515,351
Stewardship Science Grant Program	81.112	Direct	56,080	287,607
University of Notre Dame: Predictive Science Academic Alliance Program	81.124	202199JHU	—	13,200
Advanced Research Projects Agency – Energy	81.135	Direct	—	1,153,902
Fluor Marine Propulsion LLC: Department of Energy	81.UNKNOWN	7009145	—	1,225
Iowa State University	81.UNKNOWN	401-20-13	—	30,215
Lawrence Berkeley National Laboratory	81.UNKNOWN	B626902	—	33,894
National Security Technologies	81.UNKNOWN	169843	—	34,003
Oak Ridge National Laboratory	81.UNKNOWN	4000166532	—	56,323
Sandia National Laboratories	81.UNKNOWN	1955274	—	36,268
Sandia National Laboratories	81.UNKNOWN	PO 1721402	—	39,082
University of Tennessee Battelle	81.UNKNOWN	4000110265	—	22,523
Subtotal			—	253,533
Department of Energy Total – Other Divisions			683,475	7,880,909
Department of Education:				
Department of Education: Frankford High School	84.010	1009/F17	—	242
National Resource Centers Program for Foreign Language and Area Studies or Foreign Language and International Studies Program and Foreign Language and Area Studies Fellowship Program	84.015	Direct	—	238,102
Overseas Programs – Group Projects Abroad	84.021	Direct	—	67,578
Maryland Department of Education: Special Education-Grants to States	84.027	171578	—	122,994
Maryland Department of Education	84.027	171579	—	163,438
Maryland Department of Education	84.027	171580	—	401,277
Maryland Department of Education	84.027	171581	—	101,944
Maryland Department of Education	84.027	180553	—	(1)
Maryland Department of Education	84.027	180675	—	16,032
Maryland Department of Education	84.027	181726	—	367,620
Maryland Department of Education	84.027	181729	—	70,740
Maryland Department of Education	84.027	181732	—	362,773
Maryland Department of Education	84.027	181734	—	1,147,858
Maryland Department of Education	84.027	190319	—	77,407
Maryland Department of Education	84.027	190320	—	46,479
Maryland Department of Education	84.027	190321	—	40,491
Subtotal			—	2,919,052
Maryland Department of Education: Special Education-Preschool Grants	84.173	181728	—	343,738
Maryland Department of Education	84.173	180848	—	183,708
Subtotal			—	527,446

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Maryland Department of Education: Special Education-Grants for Infants and Families	84.181	180294	$ —	291,783
Maryland Department of Education: Javits Gifted and Talented Students Education	84.206	Direct	—	161,996
Education Research, Development and Dissemination	84.305	Direct	601,132	2,369,303
Temple University	84.305	300138-JHU	—	(8,555)
University of Virginia	84.305	GM10144 150874	—	10,176
University of Virginia	84.305	GM10149 150263	—	129,701
University of Virginia	84.305	GM10150 150367	—	126,035
Subtotal			601,132	2,626,660
Maryland Department of Education: Special Education-State Personnel Development	84.323	171237	—	4,366
Kennedy Krieger Institute: Research in Special Education	84.324	113108	—	7,205
Texas A&M University: English Language Acquisition State Grants	84.365	02-S170225	—	49,896
University of California-Davis: Supporting Effective Instruction State Grant	84.367	09-002383-14	—	42,525
WESTED: Grants for Enhanced Assessment Instruments	84.368	S-00015260	—	779
Kentucky State Dept of Education: Comprehensive Literacy Development	84.371	Doc ID: PON 2540	—	128,928
SRI International: Special Education-Technical Assistance on State Data Collection	84.373	51-001280	—	122,596
State Fiscal Stabilization Fund (SFSF) Investing in Innovation (i3) Fund, Recovery Act	84.396	Direct	138,662	140,458
Texas A&M University: Investing in Innovation (i3) Fund	84.411	U411A110004	—	281,418
Texas A&M University: Supporting Effective Educator Development Program	84.423	02-S170237	—	22,877
Jobs for the Future: Department of Education	84.UNKNOWN	16-178	—	124,520
Maryland Higher Education Commission	84.UNKNOWN	LDP 18100	—	26,705
Maryland Higher Education Commission	84.UNKNOWN	WESP 19100	—	27,845
Teachley LLC	84.UNKNOWN	90081163	—	2,533
Texas A&M University	84.UNKNOWN	02-S130261	—	29,820
Subtotal			—	211,423
Department of Education Total – Other Divisions			739,794	7,845,330
Department of Health and Human Services:				
Global AIDS	93.067	Direct	13,917,507	74,045,801
Cardno Emerging Markets USA, Ltd	93.067	4727-012-18-CR-01	—	48,174
Columbia University	93.067	GG008363-12	—	84,470
Emory University	93.067	A140029	—	45,911
Excellence Community Education Welfares	93.067	ECEWS LOCATE SA 01	—	(10,839)
Sante Espoir Vie Cote Divoire	93.067	U2GGH001036	—	458,237
Subtotal			13,917,507	74,671,754
Geisinger Health Systems: Prevent Blindness America: Chronic Diseases: Research, Control, and Prevention	93.068	61608101	—	218,848
Birth Defects and Developmental Disabilities – Prevention and Surveillance	93.073	Direct	—	204,918
Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077	Direct	10,838	1,611,233
American Heart Association	93.077	FX-ATRAC-JHU-02	13,484	66,633
Portland State University	93.077	207STR594	—	22,072
University of Vermont	93.077	32359SUB2489	—	507,573
University of Vermont	93.077	SUB51461 Johns Hopki	—	139,398
Virginia Commonwealth University	93.077	FP00006477 SA003	199,441	449,178
Virginia Commonwealth University	93.077	FP00003667_SA010	—	2,952
Subtotal			223,763	2,799,039
Prevention of Disease, Disability, and Death by Infectious Disease	93.084	Direct	90,921	294,821
Center for Disease Dynamics, Economics & Policy	93.084	Subaward 1842-01-JHH	—	245,097
Emory University	93.084	T657036	—	141,620
University of Maryland Baltimore	93.084	1902999	—	2,686
Subtotal			90,921	684,224
Advancing System Improvements for Key Issues in Women's Health	93.088	Direct	659,175	920,332
Food and Druge Administration Research	93.103	Direct	413,432	2,155,381
Columbia University	93.103	1GG015002	—	9,697
Duke University	93.103	203-7987	—	19,145
University of Kansas Medical Center	93.103	ZAD00000	—	6,700
University of Rochester	93.103	416948-G/URFAOGR5105	—	43,404
University of Washington	93.103	UWSC8835	—	(25,648)
Subtotal			413,432	2,208,679
Maternal and Child Health Federal Consolidated Programs	93.110	Direct	599,986	2,070,665
Health Research Inc.	93.110	UH7MC30773	—	61,046
Subtotal			599,986	2,131,711
Environmental Health	93.113	Direct	1,662,010	11,399,209
Colorado State University	93.113	G-00695-1	—	6,149
Columbia University	93.113	GG013113	—	149,813
Columbia University	93.113	2(GG013047)	—	20,929
Dartmouth College	93.113	GC10030-00-01	—	6,428
Drexel University	93.113	800119	—	25,539
Icahn School of Medicine at Mount Sinai	93.113	0253-9211-4609	—	(1,346)
Michigan State University	93.113	RC108079JHU	—	7,513
Rutgers University	93.113	0686	—	20,516
University of California Davis	93.113	201500641-01	65,946	208,611
University of California Los Angeles	93.113	1925 G WA084	—	62,093
University of North Carolina	93.113	5112186	—	46,263
University of Washington	93.113	UWSX9648	—	15,353
University of Wisconsin-Madison	93.113	173405329/14AAC2354	—	146,231
Virginia Polytechnic Institute and State	93.113	431897-19446	—	97,741
Washington University	93.113	WU-17-405	—	(10,233)
Subtotal			1,727,956	12,200,809

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
State of Maryland: Tuberculosis Prevention and Control and Laboratory Program	93.116	PHPA 16-230	$ —	435,594
Oral Disorders and Disorders Research	93.121	Direct	412,610	3,134,043
University of Maryland Baltimore	93.121	Sub Award No 1600662	—	11,738
University of Maryland Baltimore	93.121	SR0000065729	—	9,232
University of Maryland Baltimore	93.121	SR00005367	—	54,623
University of Maryland Baltimore	93.121	1500096	—	1,409
Subtotal			412,610	3,211,045
EMS for Children	93.127	Direct	82,637	251,411
Grants to Increase Organ Donations	93.134	Direct	131,674	270,302
Centers for Research and Demonstration for Health Promotion and Disease Prevention	93.135	Direct	768,372	1,702,824
Injury Prevention and Control Research and State and Community Based Programs	93.136	Direct	142,703	1,418,337
Baltimore City Health Department	93.136	CO# 38739	—	69,964
Baltimore City Health Department	93.136	CO# 38107	—	28,953
Maryland Department of Health and Mental Hygiene	93.136	PHPA-G3018	—	19,082
Maryland Department of Health and Mental Hygiene	93.136	PHPA -G3017	—	17,412
Maryland Department of Health and Mental Hygiene	93.136	PHPA-G2752	—	3,774
Maryland Department of Health and Mental Hygiene	93.136	PHPA-G2753	—	7
Subtotal			142,703	1,557,529
NIEHS Superfund Hazardous Substances – Basic Research and Education	93.143	Direct	18,020	83,866
Coordinated Services and Access to Research for Women, Infants, Children, and Youth	93.153	Direct	135,034	759,297
Human Genome Research	93.172	Direct	4,192,053	13,625,612
Cold Spring Harbor Laboratory	93.172	55260418	—	12,455
JBS Science, Inc.	93.172	2R44HG008700-02	—	32,207
Mayo Clinic	93.172	66016496	—	30,658
Stanford University	93.172	61120607-114738	—	130,000
University of North Carolina	93.172	5033699	—	61,229
Subtotal			4,192,053	13,892,161
Research Related to Deafness and Communication Disorders	93.173	Direct	781,429	13,480,830
Albert Einstein College of Medicine	93.173	Sub Award No. 310159	—	63,777
Baylor College of Medicine	93.173	90060393	—	50,665
Columbia University	93.173	1(GG012006-01)	—	665,037
Georgetown University Medical Center	93.173	412727 GR412512-JHU	—	128,062
Georgetown University Medical Center	93.173	4265-086-JHU	—	(2,075)
Massachusetts Eye and Ear Infirmary	93.173	2300108-01	—	(17,627)
Monell Chemical Senses Center	93.173	NIH057A01REISE	—	50,746
Northwestern University	93.173	SP0019717PROJ0004979	4,800	109,374
Oregon Health Sciences University	93.173	1006837_JHU	—	763,092
University of Buffalo	93.173	R1129334	—	131,534
University of Buffalo	93.173	R1062080	—	26,543
University of South Carolina	93.173	16-3087	—	355,926
University of South Carolina	93.173	16-3086	—	32,619
University of Southern California	93.173	S1245142	—	99,199
University of Southern California	93.173	40773717	—	4,141
Subtotal			786,229	15,941,843
Research and Training in Complementary and Integrative Health	93.213	Direct	1,491	1,047,785
Duke University	93.213	203-7677	—	10,799
Duke University	93.213	203-7917	—	45,070
Duke University	93.213	A039024	—	245,141
Penn State University	93.213	5944-JHU-DHHS-5856	—	67,794
University of Arizona	93.213	495659	—	16,843
University of Maryland Biotechnology Institution	93.213	SR00002665	—	(41,042)
University of Michigan	93.213	SUBK00009390	—	93,977
Wake Forest University	93.213	WFUHS 114690	—	10,619
Washington State University	93.213	132416 G003940	—	113,883
Yale University	93.213	GR101558 (CON-800010	—	41,311
Yale University	93.213	GR104245(CON80001407	—	29,083
Subtotal			1,491	1,681,263
Baltimore City Health Department: Family Planning Services	93.217	38162	—	8,647
National Research Service Awards – Health Services Research Training	93.225	Direct	—	453,093
Research on Healthcare Costs, Quality and Outcomes	93.226	Direct	740,183	5,573,586
Albert Einstein Medical Center	93.226	P0709466	—	23,351
Baylor College of Medicine	93.226	41010361501	—	4,684
Columbia University	93.226	2(GG011859-03)	—	36,875
Columbia University	93.226	GG011641-01	—	99,696
Cornell University	93.226	83742-11051	—	83,401
Medical University of South Carolina	93.226	MUSC18-135-8D662	—	105,873
University of Maryland Baltimore	93.226	1600146	—	82,023
University of Maryland Baltimore	93.226	SR00005387	—	31,573
University of Texas Southwestern Medical Center	93.226	RGC-0000000453	—	32,218
Vanderbilt University	93.226	VUMC73246	—	17,335
Subtotal			740,183	6,090,615
National Center on Sleep Disorders Research	93.233	Direct	219,483	1,630,203
Childrens Hospital of Philadelphia	93.233	3210560618	—	(262)
University of Chicago	93.233	AWD068975-01-PR (SUB	—	18,597
Subtotal			219,483	1,648,538
Mental Health Research Grants	93.242	Direct	5,430,865	31,930,231
American University	93.242	31468-01	—	77,494
American University	93.242	90083024	—	3,165
Brigham and Womens Hospital	93.242	Agreement No 117614	—	100,254
Brown University	93.242	7147135LTD	—	34,091
Brown University	93.242	824	—	27,129
Center for Innovative Public Health Research	93.242	90069729	—	143,053
Center for Infectious Disease Research	93.242	M101S12F01	—	122,893

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Cold Spring Harbor Laboratory	93.242	64580125	$ —	187,490
Columbia University	93.242	1(GG008104-01)	—	1,786
Columbia University	93.242	9(GG009462)	—	3,290
Dartmouth College	93.242	R1010	—	94,820
Duke University	93.242	203-7474	—	4,529
Howard University College of Medicine	93.242	0007474-1000032930	—	(292,553)
Kennedy Krieger Institute	93.242	110268-0716	—	42,814
Kennedy Krieger Institute	93.242	110268-0719	—	8,498
Kennedy Krieger Institute	93.242	110268-0719 01S	—	117,212
Kennedy Krieger Institute	93.242	113060	—	(5,456)
Kennedy Krieger Institute	93.242	113060-0619-01	—	16,185
Kennedy Krieger Institute	93.242	113249-0719-01	—	9,534
Kennedy Krieger Institute	93.242	1R01MH113652-01	—	44,763
Lieber Institute for Brain Development	93.242	A238	—	24,537
Massachusetts General Hospital	93.242	230747	—	33,608
Medical University of South Carolina	93.242	MUSC15-046	—	149,669
Nathan S. Kline Institute for Psychiatric Research	93.242	26526	—	93,945
New York Blood Center, Inc.	93.242	NIH000491	—	32,290
Princeton University	93.242	2156	—	(63,777)
Rand Corporation	93.242	9920180012	—	9,067
Research Foundation for Mental Hygiene	93.242	26182	—	33,463
State University of New York	93.242	100-1129280-72487	—	33,325
University of California Los Angeles	93.242	2000 G WD207	—	63,823
University of California San Diego	93.242	67410379	—	108,574
University of California San Francisco	93.242	8273 SC	—	(238)
University of Colorado	93.242	1553922	—	2,653
University of Hawaii	93.242	KA1079	—	34,316
University of Liverpool	93.242	JHU IO#03590073459	—	32,096
University of Maryland Baltimore	93.242	1600205	—	197,658
University of Maryland Baltimore	93.242	1701927	—	277,230
University of Maryland Baltimore	93.242	1802161	—	50,742
University of Michigan	93.242	3003304169	—	12,755
University of Missouri-St Louis	93.242	00057544-2	—	22,811
University of Pennsylvania	93.242	Sub Award No 574357	—	66,424
University of Pittsburgh	93.242	CNVA00055333 (129...	—	4,016
University of Southern California	93.242	75484687	—	41,032
Virginia Commonwealth University	93.242	FP00006198SA001	—	11,802
Wayne State University	93.242	Subaward No WSU19059	—	60,190
Subtotal			5,430,865	34,003,233
Substance Abuse and Mental Health Services – Projects of Regional and National Significance	93.243	Direct	—	777,780
University of Maryland Baltimore	93.243	1500201C	—	37,801
University of Maryland Baltimore	93.243	1802252	—	41,932
University of Maryland Baltimore	93.243	1500351	—	181,490
University of Maryland Baltimore	93.243	1200652D	—	(103,609)
University of Maryland Baltimore	93.243	1500351	—	(122)
Subtotal			—	935,272
Occupational Safety and Health Program	93.262	Direct	56,635	180,534
Bassett Medical Center	93.262	2U54OH007542	—	12,334
Bassett Medical Center	93.262	2U54OH007542 JHU3	12,270	96,218
Colorado State University	93.262	G-01055	—	84,770
ICAHN School of Medicine at Mount Sinai	93.262	0254-5951-4609	—	145,059
Oregon Health Sciences University	93.262	1008844_JHU	—	41,092
University of Colorado at Denver	93.262	FY16.610.001	—	17,127
Subtotal			68,905	577,134
Health Systems Strengthening and HIV/AIDS Prevention, Care and Treatment under the	93.266	Direct	553,467	3,289,643
President's Emergency Plan for AIDS Relief				
Maryland Department of Health and Mental Hygiene: Adult Viral Hepatitis Prevention and Control	93.270	PHPA 19-373	—	9,568
Maryland Department of Health and Mental Hygiene	93.270	PHPA 16-240	—	6,794
Maryland Department of Health and Mental Hygiene	93.270	PHPA 16-240	—	269,862
Subtotal			—	286,224
Alcohol National Research Service Awards for Research Training	93.272	Direct	—	598,831
Alcohol Research Programs	93.273	Direct	391,900	3,975,971
Beth Israel Deaconess Medical Center	93.273	01029007	—	171,064
Rhode Island Hospital	93.273	7017137290-1	—	29,382
The University of Alabama Birmingham	93.273	Sub 000512064-002	—	116,817
University of Maryland Baltimore	93.273	1802029 Request:2132	—	8,201
University of Washington	93.273	UWSC9479	—	298,137
Virginia Polytechnic Institute and State	93.273	SA No. 431957-19446	—	3,409
Subtotal			391,900	4,602,981
Drug Abuse and Addiction Research Programs	93.279	Direct	3,077,321	36,974,634
American Academy of Child and Adolescent Psychiatry	93.279	JHU IO#03590069089	15,535	188,228
Columbia University	93.279	2(GG011992-01)	—	111,782
Columbia University	93.279	5(GG010654)	—	65,816
Coridea, Inc.	93.279	COR-005	—	27,983
Dartmouth College	93.279	Subaward No. R171	12,532	14,007
Dartmouth College	93.279	Sub Award No. R845	—	20,929
Druidapp, LLC	93.279	JHU IO#90083065	—	37,501
Emory University	93.279	T849886	—	27,686
Emory University	93.279	T996182	—	35,596
Kaiser Foundation Research Institute	93.279	OOS030297-JHU	—	16,013
Medical College of Wisconsin	93.279	R01DA038085-04	—	18,975
Medical College of Wisconsin	93.279	R01DA044971	—	8,904
Northwestern University	93.279	60044002 JHU	—	9,275
Rand Corporation	93.279	9920180099	—	7,802
Research Triangle Institute	93.279	1-340-0216061-65045L	—	15,482
Research Triangle Institute	93.279	2-312-0215457-52732L	—	12,706
Temple University	93.279	361040-08110-7431-02	—	(35,634)
Temple University	93.279	390468-04710-7341-02	—	(15,260)
University of California Los Angeles	93.279	1935 G UB326	—	15,107

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of Colorado	93.279	1554071	$ —	6,280
University of Illinois	93.279	16641	—	43,649
University of Illinois	93.279	16867	—	6,293
University of Maryland College Park	93.279	50907-Z0015201	—	53,068
University of Minnesota	93.279	PO06920801	—	28,586
University of Nebraska Medical Center	93.279	34-2005-2087-001	—	83,960
University of New Mexico	93.279	3RV39	—	39,608
University of North Carolina	93.279	5111928	—	22,514
University of North Carolina	93.279	5112083	—	73,983
University of North Carolina	93.279	5-34440	—	2,125
University of Pennsylvania	93.279	568921	—	42,703
University of Pennsylvania	93.279	Subaward No 568930	—	48,347
University of Wisconsin Madison	93.279	714K711	—	75,064
Wake Forest University	93.279	WFUHS 553989	—	66,456
Weill Medical College of Cornell University	93.279	17060914-02	—	43,807
Yale University	93.279	GR105743 (CON-800017	—	96,180
Subtotal			3,105,388	38,290,155
Mental Health National Research Service Awards for Research Training	93.282	Direct	—	(114)
Centers for Disease Control and Prevention Investigations and Technical Assistance	93.283	Direct	240,325	1,868,125
University of North Carolina	93.283	5105002	—	12,840
Subtotal			240,325	1,880,965
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Direct	1,532,704	10,725,825
Brown University	93.286	00000988	—	30,313
Carnegie Mellon University	93.286	1090432-355395	—	17,841
Childrens National Health System	93.286	1R01EB020003-01A1	—	140,812
Childrens National Health System	93.286	30004680-02	—	185,043
College of Staten Island, Cuny	93.286	41953-A	—	51,983
Kennedy Krieger Institute	93.286	110156-0817-02B	—	237,391
Kennedy Krieger Institute	93.286	110156-0818	—	116,224
Kennedy Krieger Institute	93.286	113040-0119-01	—	12,799
Kennedy Krieger Institute	93.286	90073618	—	37,465
Kitware, Inc.	93.286	K001848-00-S04	—	33,921
Massachusetts General Hospital	93.286	229318	—	147,679
Massachusetts Institute of Technology	93.286	121238	—	138,159
Plenoptika	93.286	JHU-Phase1-2017-18	—	42,857
University of California San Francisco	93.286	10956sc	—	354,340
University of California Santa Barbara	93.286	KK1867	—	127,136
University of Maryland College Park	93.286	53930-Z0045201	—	206,429
University of Memphis	93.286	A00-0077-S031	—	36,847
University of Texas Health Science Center	93.286	0014313A	—	23,377
University of Virginia	93.286	GB10132 148547	—	62,658
Subtotal			1,532,704	12,729,099
Teenage Pregnancy Prevention Program	93.297	Direct	—	832,018
Baltimore City Health Department	93.297	38163	—	2,747
Baltimore City Health Department	93.297	38694	—	105,998
Baltimore City Health Department	93.297	38824	—	36,144
Baltimore City Health Department	93.297	CO#38407	—	13,720
Baltimore City Health Department	93.297	CO#38757	—	129,504
Subtotal			—	1,120,131
Minority Health and Health Disparities Research	93.307	Direct	749,051	4,681,064
Brigham and Womens Hospital	93.307	AgmtRef.#119569	—	48,699
Emocha Mobile Health, Inc.	93.307	2R44MD010521	—	145,130
George Washington University	93.307	18-M18	—	28,865
Howard University	93.307	632419-H046748	7,293	9,102
North Carolina State University	93.307	2017-1593-03	—	36,553
University of Arkansas for Medical Sciences	93.307	51511	—	21,223
University of Maryland Baltimore	93.307	1600101	—	233,047
University of North Carolina	93.307	5112763	—	36,075
University of Pittsburgh	93.307	0047269 (126836-5)	35,774	63,911
University of Pittsburgh	93.307	47269 (126836-4)	—	24,908
Subtotal			792,118	5,328,577
Trans-NIH Research Support	93.310	Direct	5,532,635	12,888,442
Drexel University	93.310	800175	—	291,987
Duke University	93.310	2037668	—	17,359
Kaiser Permanente	93.310	RNG209773-JHU-1	—	27,449
Mayo Clinic	93.310	JHU-218968 / PO# 662	—	27,735
Memorial Hospital of Rhode Island	93.310	5001311-Carnell	—	76,422
University of North Carolina	93.310	5109147	—	11,302
University of Utah	93.310	5UG3OD023249-02	—	99,488
University of Wisconsin Madison	93.310	778K890	—	135,413
Women and Infants Hospital	93.310	5001401-Carnell	—	106,874
Subtotal			5,532,635	13,682,471
Maryland Department of Health and Mental Hygiene: Emerging Infections Programs				
Protecting and Improving Health Globally: Strengthening Public Health Through Surveillance,	93.317	90078121	112,065	503,888
Maryland Department of Health and Mental Hygiene	93.317	90076935	200,494	241,961
Maryland Department of Health and Mental Hygiene	93.317	5NU50CK000487-03	—	446,474
Subtotal			312,559	1,192,323
Epidemiologic Research, Disease Detection and Prevention	93.318	Direct	35,725	672,665
National Center for Advancing Translational Sciences	93.350	Direct	2,513,370	12,500,825
Duke Clinical Research Institute	93.350	203-7564	—	40,837
Duke University	93.350	subaward 203-8371	—	2,402
Massachusetts Institute of Technology	93.350	80495	—	67,150
Mayo Clinic	93.350	236019/PO 65746848	—	4,888
Oregon Health Sciences University	93.350	1011902_JHU	5,043	640,350
Tufts University	93.350	100107-00007	—	23,968
University of Pittsburgh	93.350	0055353 (129324-14)	—	48,523
Virginia Commonwealth University	93.350	PD304220-SC106663	—	4,820
Subtotal			2,518,413	13,333,763

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Research Infrastructure Program	93.351	Direct	$ 68,510	3,497,195
National Center for Advancing Translational Sciences	93.351	T32OD011089	—	471,953
University of Minnesota	93.351	H005556201	—	55,602
Subtotal			68,510	4,024,750
Childrens Research Institute: 21st Century Cures Act – Beau Biden Cancer Moonshot	93.353	30004929-02	—	72,353
Vanderbilt University Medical Center	93.353	VUMC69196	—	22,361
Subtotal			—	94,714
Maryland Department of Health and Mental Hygiene: Public Health Emergency Response: Cooperative Agreement for Emergency Response: Public Health Crisis Response	93.354	OPASS-PHPA-19-387	—	273,234
Biomedical Advanced Research and Development Authority (BARDA), Biodefense Medical Countermeasure Development	93.360	Direct	212,280	667,927
University of Texas Southwestern Medical Center	93.360	GMO 170803	—	4,336
Subtotal			212,280	672,263
Nursing Research	93.361	Direct	409,264	2,936,404
Brigham and Womens Hospital	93.361	13129191 Burnett , A	—	97,499
Massachusetts General Hospital	93.361	233238	—	128,196
University of Rochester	93.361	416552-G	—	14,876
University of Virginia	93.361	GB10397 154429	—	135,319
Subtotal			409,264	3,312,294
Sickle Cell Treatment Demonstration Program	93.365	Direct	502,151	1,203,051
University of Miami	93.365	SPC-001015	—	3,087
Carolinas Healthcare System	93.365	3000301054 (A17-0142	—	33,202
Subtotal			502,151	1,239,340
Baylor College of Medicine: 21st Century Cures Act – Precision Medicine Initiative	93.368	1OT2O2002751	—	76,883
Cancer Cause and Prevention Research	93.393	Direct	785,876	8,085,246
Albert Einstein College of Medicine	93.393	310924	—	92,479
Duke University	93.393	2036490	—	21,823
Fred Hutchinson Cancer Research Center	93.393	0000790509	—	4,815
Fred Hutchinson Cancer Research Center	93.393	951685	—	139,162
George Washington University	93.393	16-M60	—	59,346
Mayo Clinic	93.393	JOH-181797	—	1,061
Missouri Western State University	93.393	C00066431	—	169,341
New York University	93.393	17-A1-00-007671-01	—	36,520
Northwestern University	93.393	60047262 JHU	—	42,465
Radiopharmaceutical Imaging and Dosimetry, LLC	93.393	1R43CA228776	—	8,420
Roswell Park Cancer Institute	93.393	192-02	—	19,335
Roswell Park Cancer Institute	93.393	192-03	—	46,977
Roswell Park Cancer Institute	93.393	273-01	—	584
Tufts Medical Center	93.393	102732-00001_Platz	—	703
University of Alabama at Birmingham	93.393	000514642-SP007-SC00	—	13,868
University of California San Diego	93.393	85277827	—	28,781
University of California San Francisco	93.393	10605sc	—	87,824
University of Florida	93.393	UFDSP00012158	—	6,664
University of Maryland Baltimore	93.393	1903427 Request:2606	—	7,718
University of Maryland College Park	93.393	Z035602	—	10,778
University of Pittsburgh	93.393	0046563 (129845-1)	—	(18,625)
University of Pittsburgh	93.393	0054634 (130609-1)	—	263,659
University of Southern California	93.393	109644168	—	85,464
University of Virginia	93.393	GB10470.158834	—	21,367
Wayne State University	93.393	WSU16045	—	119,280
Yale University	93.393	M16A12385(A10121)	—	40,140
Subtotal			785,876	9,395,195
Cancer Detection and Diagnosis Research	93.394	Direct	789,308	12,245,012
Baruch Blumberg Institute	93.394	2027692	—	(242)
Cedars-Sinai Medical Center	93.394	0001098087	—	7,663
Duke University	93.394	A030581	—	59,277
Emory University	93.394	T820687	—	22,250
George Washington University	93.394	18-M81	—	18,325
Inova Healthcare Service	93.394	FP-152539-C	—	51,261
International Agency for Research on Cancer	93.394	GEP/16/03	—	20,475
JBS Science, Inc.	93.394	R433CA213610-JH	—	2,927
JBS Science, Inc.	93.394	R44CA165312-JHU	—	43,746
Kennedy Krieger Institute	93.394	113162-0218-01	—	22,892
Kennedy Krieger Institute	93.394	113163-0218-01	—	10,846
Mayo Clinic	93.394	64309225	—	(2,930)
Mayo Clinic	93.394	JOH-237854PO66475426	—	280,050
Memorial Sloan-Kettering Cancer Center	93.394	BD517225	—	32,499
Mitoluminate LLC	93.394	90078216	—	39,115
Prism Clinical Imaging	93.394	90067465	—	74,177
Sci-Engi-Medco Solutions, Inc.	93.394	90077762	—	58,044
Sibtech, Inc.	93.394	Subaward No:0247JHU	—	94,392
Sonovol, Inc.	93.394	JHU.NCI.Tri.y2	—	123,410
Tulane University	93.394	TUL-SCC-556459-18 19	—	24,038
University of California Los Angeles	93.394	1350 G WE901	—	7,954
University of California San Diego	93.394	90467090	—	175,879
University of Chicago	93.394	FP057159-B	—	(30,562)
University of Michigan	93.394	3003733685	—	174,371
University of Pittsburgh	93.394	0047722 (130660-1)	—	192,369
University of Pittsburgh	93.394	0054040(131347-1)	—	161,428
University of Pittsburgh	93.394	0056755(130741-1)	—	4,058
University of Pittsburgh	93.394	0059566 (130150-2)	—	127,223
University of Pittsburgh		0061875 (131709-3)	—	4,710
University of Utah	93.394	10044168-01	—	41,989
University of Virginia	93.394	GB10140-149265	—	192,197
Subtotal			789,308	14,278,843

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Cancer Treatment Research	93.395	Direct	$ 2,309,577	14,191,456
American College of Radiology	93.395	1805	—	96,355
American College of Radiology	93.395	1817	—	13,258
Asclepix Therapeutics, LLC	93.395	90082917	—	25,280
Childrens Hospital of Philadelphia	93.395	FP00015221 SUB432 01	—	70,428
Childrens Hospital of Philadelphia	93.395	U10CA180886	—	14,999
Childrens Hospital of Philadelphia	93.395	U10CA180886	—	77,185
City of Hope	93.395	51136.2000526.6692	—	304,226
Eastern Cooperative Oncology Group	93.395	U10CA180820-01-JHU2	—	19,724
Eastern Cooperative Oncology Group	93.395	U10CA180820-01-JHU3	—	2,665
Ecog-Acrin Cancer Research Group	93.395	U10CA180820-01-JHU1	—	19,724
Ecog-Acrin Cancer Research Group	93.395	U10CA180820-04-JHU-5	—	10,103
Emory University	93.395	A101982	—	33,324
Emory University	93.395	T791594	—	78,070
Emory University	93.395	T929586	—	132,651
Mayo Clinic	93.395	JHU-231863; PO #0356552	—	226,483
Memorial Sloan-Kettering Cancer Center	93.395	BD517365C	—	5,919
New York University Medical Center	93.395	12-00482; Project# 1	—	59,035
NRG Oncology	93.395	NCTN Armstrong	—	13,985
NRG Oncology	93.395	NCTN05-Gailard	—	7,000
Ohio State University	93.395	OSU 17261	—	2,015
Oregon Health Sciences University	93.395	9009627_JHU	—	14,196
Papgene, Inc.	93.395	R44CA203350	—	20,304
Pathovax LLC	93.395	90075859	—	31,046
Roswell Park Cancer Institute	93.395	172-01	—	9,506
University of California Los Angeles	93.395	1568 G TA827	—	210,116
University of California Los Angeles	93.395	1916 G UA065	—	91,850
University of Illinois	93.395	082902-15991	—	(112)
University of Illinois	93.395	092530-17140	—	40,608
University of Nebraska Medical Center	93.395	W000821564	—	83,734
Subtotal			2,309,577	15,905,133
Cancer Biology Research	93.396	Direct	867,413	10,834,728
Broad Institute	93.396	5012116-5500001202	—	41,524
Harvard University	93.396	223147	—	37,265
Health Research, Inc.	93.396	204-01	—	9,643
Mayo Clinic	93.396	JOH-221284	—	1,457
New York Genome Center	93.396	R21-JHU-1	—	43,561
Oregon Health Sciences University	93.396	1013137_JHU	—	69,752
University of California Berkeley	93.396	00009159	—	240,500
University of Michigan	93.396	3003642859	—	3,525
University of Michigan	93.396	SubNo 3003632785	—	189,107
University of Oklahoma	93.396	1R01CA203108	—	18,557
University of Oklahoma Health Sciences	93.396	90064927	—	16,178
University of Texas at Austin	93.396	UTA18-001386	—	17,335
Subtotal			867,413	11,523,132
Cancer Centers Support Grants	93.397	Direct	2,777,166	18,308,765
Case Western University	93.397	RES512157	—	30,978
Indiana University	93.397	IN4689861JHU	—	21,777
Indiana University School of Medicine	93.397	IN4689833UNC	—	76,507
MD Anderson Cancer Center	93.397	00001320	—	34,454
MD Anderson Cancer Center	93.397	00005004	—	22,446
University of Kentucky	93.397	3210000374-17-059	—	1,677
University of Kentucky	93.397	3210000374-18-272	—	1,848
University of Kentucky	93.397	3210000374-18-280	—	380
University of Kentucky	93.397	3210001063-19-071	—	3,723
University of Kentucky	93.397	3210001063-19-073	—	50,443
Washington University St. Louis	93.397	WU-19-47	—	68,566
Subtotal			2,777,166	18,621,564
Cancer Research Manpower	93.398	Direct	368	4,755,513
Cancer Control	93.399	Direct	—	113,425
National Association of County and City: CBA to Strengthen the Public Health Infrastructure and Performance	93.424	6NU39OT000172-05-04	—	70,018
ACL National Institute on Disability, Independent Living, and Rehabilitation Research	93.433	Direct	—	64,552
Catholic University of America	93.433	90REGE0004-01-00	—	15,216
Subtotal			—	79,768
State of New Jersey: Pregnancy Assistance Fund	93.500	17CAZP	—	36,751
Baltimore City Health Department	93.500	90080606	—	38,040
Subtotal			—	74,791
Health Promotion and Disease Prevention Research Centers: PPHF – Affordable Care Act Projects	93.542	Direct	26,519	44,406
State of Minnesota: Temporary Assistance for Needy Families	93.558	120116	—	53,425
Maryland Department of Education: Child Care and Development Block Grant	93.575	181803	—	4,263,506
Maryland Department of Education	93.575	180731	—	960,060
Maryland Department of Education	93.575	180598	—	98,302
Maryland Department of Education	93.575	180597	—	13,946
Subtotal			—	5,335,814
Maryland Family Network: Headstart	93.600	03CH3452-04-00	—	2,653
Maintaining Active Citizens: Medical Assistance Program	93.734	90069113	—	(506)
University of Maryland Baltimore County: Medical Assistance Program	93.778	SR00002485	—	10,000
Ebola Support: Transmission and Prevention Control, Public Health Preparedness, Vaccine Development	93.823	Direct	—	325,468
Emory University: National Ebola Training and Education Center	93.825	A052520	—	82,351
University of Nebraska Medical Center	93.825	36-5420-3001-002	—	71,000
Subtotal			—	153,351

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of California San Francisco: Supporting and Maintaining a Surveillance System for Chronic Kidney Disease (CKD) in the United States	93.833	NU58DP006255-01-00	$ —	14,499
Cardiovascular Diseases Research	93.837	Direct	4,068,296	40,217,423
Albert Einstein College of Medicine	93.837	310229	—	15,592
Albert Einstein College of Medicine	93.837	311257	—	52,388
American Heart Association	93.837	ATRAC-2U54HL120163	—	237,875
Baylor College of Medicine	93.837	7000000130	—	33,167
Baylor College of Medicine	93.837	7000000183	—	143,076
Beth Israel Deaconess Medical Center	93.837	1060033	—	45,294
Boston University	93.837	4500002139	—	357,108
Boston University	93.837	4500002993	—	19,006
Boston University	93.837	4500003025	—	4,455
Brigham and Womens Hospital	93.837	117349	—	134,372
Brigham and Womens Hospital	93.837	90054307	—	4,163
Columbia University	93.837	4(GG011046-03)	—	12,768
Coridea, Inc.	93.837	COR-003	—	(24,189)
Coridea, Inc.	93.837	COR-004	—	210,010
Coridea, Inc.	93.837	COR-006	—	139,093
Dartmouth College	93.837	1582R260	—	34,326
Duke University	93.837	U10HL084904	—	22,634
Fred Hutchinson Cancer Research Center	93.837	0000947542	—	79,431
Geisinger Health Systems	93.837	666950JHU01	—	19,428
George Washington University	93.837	2-AF-0X	—	47,565
Icahn School of Medicine at Mt Sinai	93.837	0255-3108-4605	—	(506)
Icahn School of Medicine at Mt Sinai	93.837	0255-A341-4605	—	(212)
Icon Clinical Research	93.837	HCMR (ICON Study Num	—	185
Innoscion LLC	93.837	R42HL093879	—	15,376
Massachusetts General Hospital	93.837	231822	—	94,385
McGill University	93.837	90073253	—	25,876
New England Research Institutes, Inc.	93.837	90060572	—	19,289
Northern California Institute for Research & Education	93.837	KIZ2166-03	—	8,151
Northwestern University	93.837	60039914JHU	—	28,516
Northwestern University	93.837	60050339 JHU	—	100,063
Oregon Health Sciences University	93.837	1013015 JHU	—	8,365
Penn State University	93.837	5297-JHU-DHHS-3238	—	82,003
Starship Health Technologies	93.837	90082107	—	50,709
Towson University	93.837	7568	—	20,618
University of California Davis	93.837	A16-0110-S004	—	15,373
University of California San Francisco	93.837	9331sc	—	94,613
University of Chicago	93.837	FP057041	—	24,258
University of Illinois at Chicago	93.837	Pre-Award R01HL14703	—	18,402
University of Kentucky	93.837	3200001355-18-049	—	32,542
University of Maryland College Park	93.837	69661-Z0115201	—	29,786
University of Michigan	93.837	3004989447	—	17,518
University of Minnesota	93.837	N004944401	—	87,515
University of Mississippi Medical Center	93.837	66105170517-JHU	—	2,054
University of Pennsylvania	93.837	567264	—	131,640
University of Pennsylvania	93.837	570163	—	38,757
University of Pennsylvania	93.837	571903	—	28,835
University of Pennsylvania	93.837	573376	—	70,996
University of Pennsylvania	93.837	574911 – Bridi	—	63,470
University of Pennsylvania	93.837	574911 – Low	—	64,225
University of Pennsylvania	93.837	574911 – Sowho	—	72,205
University of Pennsylvania	93.837	575277	—	204,385
University of Pennsylvania	93.837	575951	—	41,565
University of Rochester	93.837	416870 / GR511485	—	5,829
University of Texas Health Science Center	93.837	Concert	—	225,547
University of Texas Health Science Center	93.837	PACE – 11624P	—	(13,574)
University of Texas Health Science Center	93.837	SENECA -- 11624AO	—	59,273
University of Washington	93.837	UWSC7363	—	16,296
University of Washington	93.837	UWSC8532	—	139,857
University of Washington	93.837	UWSC9049	—	34,143
University of Washington	93.837	UWSC9379	—	46,086
University of Washington-Applied Physics Lab	93.837	UWSC7527	—	25,604
Vixiar Medical, Inc	93.837	90077202	—	36,001
Wake Forest University	93.837	WFUHS 114489	—	32,785
Wake Forest University	93.837	WFUHS 116829	—	9,847
Yale University	93.837	SNP6355788	—	6,622
Subtotal			4,068,296	43,920,258
Lung Diseases Research	93.838	Direct	1,530,714	15,679,149
Brigham and Womens Hospital	93.838	117868	—	289,459
Cedars-Sinai Medical Center	93.838	1413446	—	236,771
Cincinnati Childrens Hospital	93.838	137990	—	17,525
Cleveland Clinic Foundation	93.838	1105-SUB	—	203,718
Columbia University	93.838	1(GG007619)	—	102,929
Columbia University	93.838	6(GG010919)	—	28,187
COPD Foundation	93.838	001	—	4,459
COPD Foundation	93.838	003	—	2,650
Emory University	93.838	T847799	676,575	932,182
Emory University	93.838	T853446	236,409	677,869
Massachusetts General Hospital	93.838	224404	—	45,238
National Jewish Health	93.838	20113402	—	2,658
National Jewish Health	93.838	20116001-JHMC	—	118,953
National Jewish Health	93.838	24020306	—	125,203
Nemours Childrens Clinic	93.838	761126-0-RSUB	—	176,495
Rutgers University	93.838	499808	—	38,429
Thomas Jefferson University	93.838	080-18007-S11203	—	13,535
Thomas Jefferson University	93.838	08018007S28201	—	(1,394)
Thomas Jefferson University	93.838	080-18007-Z69301	—	(2,273)
Thomas Jefferson University	93.838	080-18007-Z69302	—	14,632
University of California San Francisco	93.838	10438sc	—	247,138
University of California San Francisco	93.838	10955sc	—	56,911
University of Chicago	93.838	FP037781-B2	—	(250)

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of Colorado	93.838	2-5-24018	$ —	(1,336)
University of Colorado at Denver	93.838	FY18.784.006	—	277,367
University of Colorado Health Center	93.838	FY17.784.001	—	(25,935)
University of Iowa	93.838	W000705593	—	9,001
University of North Carolina	93.838	5105218	—	102,142
University of North Carolina	93.838	5111453	—	7,033
University of Pennsylvania	93.838	565138	—	18,668
University of Pittsburgh	93.838	0056821 (131024-1)	—	79,971
University of Pittsburgh	93.838	9012549 (131692-6)	—	254,950
University of Rochester	93.838	416532	—	14,439
University of Vermont	93.838	30989SUB52159	—	41,779
University of Vermont	93.838	31331SUB52227	—	32,949
University of Vermont	93.838	31438-01-004-SUB-000	—	125,724
University of Vermont	93.838	32723SUB52543	—	10,793
Vanderbilt University	93.838	VUMC63781	—	71,704
Vanderbilt University	93.838	VUMC65352	—	107,088
Subtotal			2,443,698	20,136,510
Blood Diseases and Resources Research	93.839	Direct	218,355	5,081,309
Case Western Reserve University	93.839	RESS08307	—	26,735
Emory University	93.839	T843012	—	117,123
Kennedy Krieger Institute	93.839	112015	—	4,646
University of Colorado at Denver	93.839	1R01HL130733-01A1	—	26,823
University of Maryland College Park	93.839	66331-Z0155202	—	14,738
University of Texas Health Science Center	93.839	0013267G	—	12,314
Subtotal			218,355	5,283,688
Arthritis, Musculoskeletal and Skin Diseases Research	93.846	Direct	494,018	9,032,584
Childrens Hospital of Philadelphia	93.846	3210940919-04	—	2,251
Northwestern University	93.846	60049341 JHU	—	35,759
University of Alabama at Birmingham	93.846	000504653-SC001	—	8,887
University of Alabama at Birmingham	93.846	000518393-001	—	9,414
University of Houston	93.846	R-18-0011	—	28,650
University of Michigan	93.846	3003260572	—	(40,203)
University of Pittsburgh Medical Center	93.846	0053241 (130719-3)	—	8,653
Xyken LLC	93.846	90076904	—	79,170
Subtotal			494,018	9,165,165
Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847	Direct	4,227,109	30,934,262
Baylor College of Medicine	93.847	102021737	—	88,804
Baylor College of Medicine	93.847	7000000304	—	(6,566)
Baylor College of Medicine	93.847	7000000442 BCM	—	18,386
Baylor College of Medicine	93.847	P01DK056492	—	39,470
Carnegie Institution of Washington	93.847	5-10870-02	—	40,565
Carnegie Institution of Washington	93.847	5-10870-03	—	15,601
Carnegie Institution of Washington	93.847	Sub 5-10870-01	—	168,768
Childrens Hospital of Philadelphia	93.847	27007-3210910718	—	122,660
Childrens Hospital of Philadelphia	93.847	3301820718-P	—	(34,316)
Childrens Hospital of Philadelphia	93.847	3301820719	—	23,865
Childrens Hospital of Philadelphia	93.847	962749 – RSUB	—	12,366
Childrens Hospital of Philadelphia	93.847	962750 – RSUB	—	13,677
Childrens Hospital of Philadelphia	93.847	962751 – RSUB	—	18,414
Duke University	93.847	2035606	—	23,798
Florida Hospital Medical Group, Inc	93.847	739082-JHU	—	246,242
George Washington University	93.847	16-D07	—	5,303
Georgetown University	93.847	412881 GR412914-JHU	—	56,945
Harvard Pilgrim Healthcare	93.847	PH000668A	—	15,057
Icahn School of Medicine at Mount S1nai	93.847	0255-5137-4609	—	(13,828)
Loyola University of Chicago	93.847	206423	—	8,665
Medical University of South Carolina	93.847	MUSC15-030	—	112,131
Medical University of South Carolina	93.847	R01DK115495	—	3,735
Northern California Institute for Research and Education	93.847	EST2041-01	—	447,502
Northwestern University	93.847	60043198 JHU	—	81,094
Penn State University	93.847	5474-JHU-DHHS-6766	—	168,386
Rush University	93.847	5R01DK101350-05	—	2,391
Rutgers University	93.847	90076920	—	225,621
Starship Health Technologies	93.847	90081861	—	48,353
Thomas Jefferson University	93.847	080-18007-S21501	—	6,714
Thomas Jefferson University	93.847	080-18025-R13922	—	8,006
Thomas Jefferson University	93.847	080-18025-R13923	—	13,624
University of Alabama	93.847	R01DK113980	—	9,361
University of California San Francisco	93.847	10785sc	—	6,255
University of California San Francisco	93.847	8164sc	—	21,963
University of Iowa	93.847	1001824269	—	33,510
University of Maryland Baltimore	93.847	050317E	—	137,858
University of Maryland Baltimore	93.847	1300318A	—	(2,566)
University of Maryland Baltimore	93.847	1300318A/14171	—	16,295
University of Maryland Baltimore	93.847	1701026 035335	—	1,497
University of Maryland College Park	93.847	61392-Z0066201	—	19,383
University of Michigan	93.847	PO#035: 3003480340	—	5,650
University of Minnesota	93.847	N005115004	—	39,205
University of Minnesota	93.847	R01DK106130	—	38,080
University of PA Medical Center	93.847	571765	—	19,106
University of Pennsylvania	93.847	572695	—	42,862
University of South Florida	93.847	6143-1172-00-A	—	144,955
University of South Florida	93.847	NA 00027956	—	4,997
University of Wisconsin Madison	93.847	557K922	—	6,204
Vanderbilt University	93.847	VUMC43851	—	743
Virginia Commonwealth University	93.847	PD0302920-SC104224	—	62,458
Virginia Commonwealth University	93.847	PD304070-SC106316	—	46,256
Washington University St. Louis	93.847	WU-15-131	—	33,240
Women and Infants Hospital	93.847	5001481-Carnell	—	112,393
Yale University	93.847	GR104073CON-80001556	—	19,314
Yale University	93.847	GR104661 (CON-800014	—	20,867
Yale University	93.847	GR105192CON-80001610	—	43,290
Subtotal			4,227,109	33,798,871

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Digestive Diseases and Nutrition Research	93.848	Direct	$ —	1,018
Kidney Diseases, Urology and Hematology Research	93.849	Direct	—	10,891
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	Direct	1,454,747	45,247,441
Agenebio	93.853	UH2-JHU-2017-1	—	48,454
Allen Institute for Brain Science	93.853	2014-0570	—	273,930
Anatomy Works	93.853	90077318	—	20,002
Augusta University	93.853	29457-12	—	(84)
Augusta University	93.853	33880-12	—	6,132
Beth Israel Deaconess Medical Center	93.853	01025970	—	(1,505)
Cedars-Sinai Medical Center	93.853	Subaward 1476619	—	173,994
Childrens Hospital of Philadelphia	93.853	321086 PO 035961778R	—	259,527
Childrens Hospital of Philadelphia	93.853	ACTIVITY#3210390818	—	35,998
Childrens National Health System	93.853	30004258-01-17	—	64,304
Cincinnati Childrens Hospital Medical Center	93.853	R01NS096053	—	225
Colorado State University	93.853	G-7477-1	—	(23,820)
Columbia University	93.853	GG008493-1	—	64,013
Cornell University	93.853	181663	—	15,032
Duke University	93.853	2037033	—	6,106
Duke University	93.853	2037462	—	73,101
Duke University	93.853	SUBAWARD A030522	—	62,817
Emory University	93.853	S980287	—	21,758
Harvard University	93.853	138070-5082115	—	(16,970)
Harvard University	93.853	138078-5105155	—	144,725
Henry M. Jackson Foundation	93.853	3123	—	14,137
Houston Methodist Hospital and Research	93.853	AGMT00000	—	267
Houston Methodist Hospital and Research	93.853	AGMT00003064	—	18,546
Illinois Institute of Technology	93.853	RFA-NS-16-009	—	150,973
Iowa State University	93.853	W000873969	—	6,140
Kennedy Krieger Institute	93.853	110235-0516-01	—	19,700
Kennedy Krieger Institute	93.853	110235-0518-01	—	24,148
Kennedy Krieger Institute	93.853	110235-0519-01	—	28,689
Kennedy Krieger Institute	93.853	113054	—	13,392
Kennedy Krieger Institute	93.853	113091-0317-01	—	10,680
Kennedy Krieger Institute	93.853	113091-0317-01	—	67,996
Kennedy Krieger Institute	93.853	113113-0617-01	—	132,065
Kennedy Krieger Institute	93.853	113161	—	56,872
Kennedy Krieger Institute	93.853	113257-0819-01	—	16,673
Kennedy Krieger Institute	93.853	113258-0819-01	—	126,998
Kennedy Krieger Institute	93.853	1K12NS098482-01	—	179,504
Kennedy Krieger Institute	93.853	20-4430-9200-113221-	—	11,788
Kennedy Krieger Institute	93.853	KKI Acct 113259-0819	—	37,359
Kennedy Krieger Institute	93.853	Sub from prime 1Ro1N	—	13,060
Massachusetts General Hospital	93.853	SUREPD3	—	13,456
Mayo Clinic	93.853	15086893 Malas , Ma7	—	4,464
Michigan State University	93.853	RC108090JHU	—	20,802
Michigan State University	93.853	RC108091JHU	—	31,385
Morehouse School of Medicine	93.853	MBIR21HARTUNG	—	65,551
New York University	93.853	18-A0-00-1001378	—	94,890
Northwestern University	93.853	60036745 JHU	—	23,269
Northwestern University	93.853	90061060	—	146
Research Triangle Institute	93.853	65166L	—	(11,385)
Rush University	93.853	13012104-Sub04	—	77,235
Scripps Research Institute	93.853	5-27159	—	370,377
Stanford University	93.853	61865503-125439	—	19,058
Thomas Jefferson University	93.853	080-19250-S27601	—	11,571
University of California Irvine	93.853	2014-3128	—	496,847
University of California San Francisco	93.853	2U54NS065705	—	(2,636)
University of California San Francisco	93.853	Subaward:8569	—	27,793
University of Chicago	93.853	FP066261-A	—	165,936
University of Chicago	93.853	FP068364-01	—	299,183
University of Colorado Boulder	93.853	1555531	—	210,699
University of Florida	93.853	UFDSP00011406	—	39,786
University of Maryland Baltimore	93.853	1902930	—	138,096
University of Maryland Baltimore	93.853	SR00003188	—	19,900
University of Michigan	93.853	30046458788	—	29,612
University of Minnesota	93.853	N004631402	—	112,643
University of Pennsylvania	93.853	569935	—	33,336
University of Pennsylvania	93.853	575284	—	26,791
University of Pittsburgh	93.853	0052411 (129650-1)	—	309,515
University of Pittsburgh	93.853	Adapt Trial	—	47,372
University of Texas	93.853	19-84561	—	109,623
University of Texas Health Science Center	93.853	0012260A	—	235,880
University of Virginia	93.853	GB10289 151791	—	19,429
University of Washington	93.853	UWSC7772	—	8,456
University of Wisconsin Madison	93.853	544K165	—	6,460
University of Texas Southwestern Medical Center	93.853	GMO-171101	—	55,170
Washington University	93.853	WU-13-245	—	12,611
Washington University	93.853	WU-19-98 2934361G	—	23,811
Wayne State University	93.853	WSU18009	—	14,791
Subtotal			1,454,747	50,566,090
Allergy and Infectious Diseases Research	93.855	Direct	37,312,290	110,935,784
Accelevir Diagnostics LLC	93.855	1R43AI131826-01	—	19,668
AI Biosciences, Inc	93.855	90080312	—	8,044
American Foundation for AIDS Research	93.855	109415-60-ISTA	—	179,489
American Gastroenterological Association	93.855	90079744	—	1,200
Benaroya Research Institute at VA Mason	93.855	FY141TN022	—	5,940
Benaroya Research Institute at VA Mason	93.855	FY14ITN074	—	123,075
Benaroya Research Institute at VA Mason	93.855	FY15ITN176	—	280,380
Benaroya Research Institute at VA Mason	93.855	FY17ITN004	—	77,263
Benaroya Research Institute at VA Mason	93.855	FY19ITN274	—	59,554

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Benaroya Research Institute at VA Mason	93.855	UM1AI109565	$ —	72,033
Beth Israel Deaconess Medical Center	93.855	01029232	—	397,144
Beth Israel Deaconess Medical Center	93.855	1060810	—	189,484
Boston College	93.855	5103621-1	—	47,437
Boston University	93.855	4500001801	—	20,101
Boston University	93.855	4500008477	—	33,865
Brigham and Womens Hospital	93.855	110009	—	82,107
Brigham and Womens Hospital	93.855	110229	—	5,514
Brigham and Womens Hospital	93.855	110230 110009	—	12,794
Brigham and Womens Hospital	93.855	110233	—	9,261
Brigham and Womens Hospital	93.855	110557	—	10,714
Brigham and Womens Hospital	93.855	# 108402	—	(24,619)
Brigham and Womens Hospital	93.855	111667	—	124,467
Brigham and Womens Hospital	93.855	227111	—	1,781
Brigham and Womens Hospital	93.855	A5332-Reprieve	—	12,181
Brigham and Womens Hospital	93.855	Evaluation	—	137,816
Brigham and Womens Hospital	93.855	UM1AI068636 – 110208	—	15,052
Brigham and Womens Hospital	93.855	UM1AI068636 – 111670	—	129,283
Case Western Reserve University	93.855	RES507839 RES507840	—	562
Case Western Reserve University	93.855	RES512469	—	19,239
CMC Corp-Boston Childrens Hospital	93.855	Project ID #76095	—	(867)
Columbia University	93.855	1(GG012146-01)	—	(514)
Duke Clinical Research Institute	93.855	203-7861	—	209,166
Duke Clinical Research Institute	93.855	203-9694	—	31,573
Duke University	93.855	2037706	—	144,298
Duke University	93.855	A030273	—	4,522
Duke University	93.855	203 7708	—	9,722
Emory University	93.855	A046257	—	39,581
Emory University	93.855	T301953	—	222,969
Emory University	93.855	T718485	—	146,718
Emory University	93.855	T948497	—	18,027
FHI 360	93.855	80104	—	32,063
FHI 360	93.855	90078517	363,589	366,828
FHI 360	93.855	90078518	432,669	466,393
FHI 360	93.855	FCO 789 0080.0223	—	12,277
FHI 360	93.855	FCO104111 ID0080.023	—	63,547
FHI 360	93.855	PO15001044	—	945
FHI 360	93.855	PO15004259	—	103,679
FHI 360	93.855	PO15004264	107,915	163,661
FHI 360	93.855	PO17001873	—	171,693
FHI 360	93.855	PO17003031	40,527	43,743
FHI 360	93.855	PO17003033	748,681	763,433
FHI 360	93.855	PO18001954	124,428	174,804
George Washington University	93.855	16-M47	—	109,708
George Washington University	93.855	16-M54	—	2,221
George Washington University	93.855	17-M44	—	11,518
George Washington University	93.855	19-M23	—	27,585
Georgetown University	93.855	GR410797	—	359,740
Gladstone Institutes	93.855	R2462-C	—	160,980
Global Alliance for TB Drug	93.855	21218	—	50,984
Harvard School of Public Health	93.855	114153-5098286	—	(4,368)
Harvard School of Public Health	93.855	114222-5057293	41,959	41,959
Henry M Jackson Foundation	93.855	4239	—	56,144
Houston Methodist Hospital and Research	93.855	18050021	—	47,290
ICAHN School of Medicine at Mount Sinai	93.855	0255-1368-4609	—	236,812
ICAHN School of Medicine at Mount Sinai	93.855	0255-1369-4609	—	121,432
ICAHN School of Medicine at Mount Sinai	93.855	0255-2461-4609	—	15,305
ICAHN School of Medicine at Mount Sinai	93.855	0255-8666-4609	—	61,938
ICAHN School of Medicine at Mount Sinai	93.855	0255-B891-4609	—	13,064
Imquest Biosciences	93.855	RFA-AI-11-031	—	125,622
Kaiser Foundation Research Institute	93.855	OOS030104-JHU	—	17,472
Kansas State University	93.855	S17001	—	97,890
La Jolla Institute for Allergy and Immunization	93.855	27318-67-384	—	51,178
Los Alamos National Laboratory	93.855	379337	—	346,148
Magee Womens Hospital	93.855	9368 (9632)	—	203,904
Magee Womens Hospital	93.855	9461(9524)(9589)	—	64,024
Magee Womens Hospital	93.855	9634	—	89,851
Magee Womens Research Institute and Foundation	93.855	9468	—	21,454
Magee Womens Research Institute and Foundation	93.855	9534	—	35,509
Magee Womens Research Institute and Foundation	93.855	9601	—	17,310
Massachusetts General Hospital	93.855	5U01HL123336	—	10,858
Memorial Sloan-Kettering Cancer Center	93.855	BD518911	—	178,458
Microplex, Inc	93.855	90078373	—	20,035
Mycomed Technologies	93.855	90075420	—	277,025
Nanocomposix	93.855	1R43AI141265-01	—	44,587
National Jewish Health	93.855	20098002	—	446,228
Northwestern University	93.855	60040625 JHU	—	54,150
Northwestern University	93.855	60040627 JHU	—	12,217
Northwestern University	93.855	60047611 JHU	—	17,613
Northwestern University	93.855	60049228 JHU	—	545,745
Oak Crest Institute of Science	93.855	S14-157JH	—	48,122
Ossium Health, Inc	93.855	90078112	—	32,733
Penn State University	93.855	5673-JHU-DHHS-4384	—	114,400
Penn State University	93.855	5777-JHU-DHHS-6664	—	79,094
Perinatal HIV Research Unit	93.855	90075778	—	36,670
Rutgers University	93.855	0038	—	(47)
Rutgers University	93.855	0395	—	151,041
Sanaria, Inc	93.855	90075664	—	284,143
Scanogen, Inc.	93.855	R44AI122527	—	36,700
Tufts University	93.855	R44AI122527	—	3,015
Tulane University	93.855	100842-00001	—	2,991
University of Alabama Birmingham	93.855	000397076-008	—	235,769
University of Alabama Birmingham	93.855	000421524-001	—	2,047
University of Alabama Birmingham	93.855	90053412	—	(145)
University of Bamako	93.855	Par-11-145	—	28,565

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of California Los Angeles	93.855	1560 B WA 685	$ —	8,088
University of California Los Angeles	93.855	1560 G WA738	—	1,361
University of California Los Angeles	93.855	1560 G WA824	—	36,403
University of California Los Angeles	93.855	1560 G WA825	—	3,938
University of California Los Angeles	93.855	1560 G WA889	—	1,803
University of California Los Angeles	93.855	1560 G WB058	—	16,991
University of California Los Angeles	93.855	1560 G WB291	—	4,288
University of California Los Angeles	93.855	1560GWA739	—	20,258
University of California Los Angeles	93.855	1650 G UA181	—	192,544
University of California San Francisco	93.855	10040sc	—	65,850
University of California San Francisco	93.855	10768sc	—	30,844
University of California San Francisco	93.855	8654sc	—	3,951
University of California San Francisco	93.855	90081732	—	174,221
University of California San Francisco	93.855	9253SC	—	29,735
University of California San Francisco	93.855	9297SC	—	4,684
University of California San Francisco	93.855	9394sc	—	14,302
University of California San Francisco	93.855	9599sc	—	162,966
University of Colorado at Denver	93.855	FY16.784.004	—	57,498
University of Colorado at Denver	93.855	FY17.820.001	—	78,008
University of Colorado at Denver	93.855	FY180784.008	—	99,974
University of Florida	93.855	UFDS00012031	—	39,769
University of Florida	93.855	UFDSP00011557	—	34,481
University of Illinois Urbana Champaign	93.855	90083648	—	81,391
University of Kansas	93.855	FY2018-047	—	107,352
University of Maryland Baltimore	93.855	120081A 13839	—	651
University of Maryland Baltimore	93.855	1600014	—	13,782
University of Maryland Baltimore	93.855	1600589	—	15,461
University of Maryland Baltimore	93.855	1700990	—	407,648
University of Maryland Baltimore	93.855	1701219	—	31,187
University of Maryland Baltimore	93.855	1903341	—	3,678
University of Maryland Baltimore	93.855	SR00005179	—	(13,809)
University of Maryland College Park	93.855	101155B	—	30,568
University of Miami	93.855	SPC-000982	—	9,758
University of Michigan	93.855	3004591110	—	9,790
University of Michigan	93.855	SUBK0009924	—	13,743
University of North Carolina	93.855	5101968	—	54,979
University of North Carolina	93.855	5106134	—	5,178
University of Pennsylvania	93.855	1-U19-AI-131130-01	—	19,901
University of Pennsylvania	93.855	574360	—	236,447
University of South Florida	93.855	6144-1174-00-B	—	34,355
University of South Florida	93.855	UFDSP00011532-	—	69,061
University of Utah	93.855	10047781-01	—	110,487
University of Virginia	93.855	GB10228 145286	—	1,636
University of Virginia	93.855	GB10531.2125596	—	132,354
University of Wisconsin Madison	93.855	839K171	—	659,180
Vanderbilt University Medical Center	93.855	VUMC67002	—	75,865
Vanderbilt University Medical Center	93.855	VUMC58446	—	3,135
Virginia Polytechnic Institute and State University	93.855	431892-19446	—	275,614
Weill Medical College of Cornell University	93.855	183723-09	—	127,429
Wistar Institute	93.855	90070865	—	103,082
Yale University	93.855	GK000510	—	19,868
Yale University	93.855	GR104014CON-80001369	—	43,968
Yale University	93.855	GR105301(CON-8000166	—	17,276
Yale University	93.855	M15A12207(A10336)	—	19,947
Subtotal			39,172,058	125,022,481
Biomedical Research and Research Training	93.859	Direct	1,392,200	40,806,553
Baylor University	93.859	R37GM052964	—	16,202
Dartmouth	93.859	R992	—	11,451
Drexel University	93.859	800130-JHU	—	93,903
George Washington University	93.859	15-S01	—	182,902
New York University	93.859	14-A0-00-002587-01	—	121,571
New York University	93.859	F778401	—	152
San Diego State University	93.859	SA0000632	—	62,299
Sanford-Burnham Medical Research Institute	93.859	60733-13141-JHU	—	73,527
Stanford University	93.859	60504920-107757	—	393
Texas A&M University	93.859	06-S170625	—	113,687
Tulane University	93.859	TLU-HSC 554796-16 17	—	55,638
University of Illinois Urbana Champaign	93.859	092912-17175	—	67,262
University of Iowa	93.859	S00486-01	—	55,198
University of Michigan	93.859	3003630942	—	966
University of North Carolina	93.859	5107297	—	143,848
University of Pittsburgh	93.859	0038664 (130689-3)	—	274,957
White Mountain Apache Tribe	93.859	90077290	—	256,932
White Mountain Apache Tribe	93.859	90077301	—	103,365
White Mountain Apache Tribe	93.859	90077555	—	36,888
Yale University	93.859	M16A12342 (A10513)	—	287,504
Subtotal			1,392,200	42,765,198
Population Research	93.864	Direct	—	(4,573)
Child Health and Human Development Extramural Research	93.865	Direct	4,962,239	20,420,826
Childrens Hospital of Philadelphia	93.865	962838-RSUB	—	16,842
Childrens Research Institute	93.865	30004942-06	—	5,773
Childrens Research Institute	93.865	90081565	—	14,850
Columbia University	93.865	2 GG012817-01	—	46,904
Cornell University	93.865	190641-02	—	33,102
Florida State University	93.865	R02022	—	60,520
George Mason University	93.865	E2047592	—	3,867
Hospital For Sick Children	93.865	U01HD087177	—	150,212
IBT	93.865	1R44HD087065-02	—	63,449
Indiana University	93.865	IN4079141JHU	—	43,229
Kaiser Foundation	93.865	RNG200543-01	—	154,063
Kaiser Foundation	93.865	RNG209743-JHU-01	—	15,774
Kennedy Krieger Institute	93.865	110168-0219-01	—	24,749

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Kennedy Krieger Institute	93.865	113000-0519-02	$ —	47,180
Kennedy Krieger Institute	93.865	113225-0119-01	—	29,080
Kennedy Krieger Institute	93.865	1U54HD079123-01A1	—	40,922
Kennedy Krieger Institute	93.865	5R01MH113652-02	—	40,878
Kennedy Krieger Institute	93.865	JHU IO#90062205	—	23,524
Massachusetts General Hospital	93.865	231478	—	61,333
Michigan State University	93.865	R21HD083108	—	3,618
Michigan State University	93.865	RC100669JHU	—	920
Miyazaki Enterprises	93.865	90082225	—	23,640
The Makerere University – JHU Care, Ltd	93.865	90067533	—	26,725
New York University	93.865	16-A0-00-006461-01	—	(12,905)
New York University	93.865	17-A0-00-006461-01	—	166,799
Ohio State University	93.865	60063933	—	17,671
University of California San Diego	93.865	52943993	—	83,137
University of Delaware	93.865	41336	—	106,440
University of Maryland College Park	93.865	1100549A SR00005018	—	44,631
University of Maryland College Park	93.865	SR00001653	—	(283)
University of Michigan	93.865	3004817921	—	17,869
University of Minnesota	93.865	P006580001	—	27,526
University of North Carolina	93.865	5109088	—	63,810
University of North Carolina	93.865	5109130	—	57,250
University of Pennsylvania	93.865	1-R21-HD-093369-01	—	55,110
University of Pennsylvania	93.865	572724	—	168,671
University of Texas at Austin	93.865	UTA12-000835	—	44,609
University of Texas at Austin	93.865	UTA17-000887	—	35,372
University of Vermont	93.865	27804SUB52961	—	22,834
Washington University St. Louis	93.865	WU-19-65	—	44,221
Wayne State University	93.865	WSU17022	—	165
Subtotal			4,962,239	22,294,907
Aging Research	93.866	Direct	14,898,667	53,634,810
Albert Einstein College of Medicine	93.866	PO693030	—	14,068
Brigham and Womens Hospital	93.866	111014	—	157,853
Brown University	93.866	00001284	—	49,697
Brown University	93.866	841	—	18,493
Colorado State University	93.866	G-785535-02	—	87,756
Columbia University	93.866	1(GG010471-09)	—	244,504
Columbia University	93.866	2(GG013391-01)	—	23,235
Columbia University	93.866	2(GG014803-01)	—	29,067
Cornell University	93.866	16060870	—	253,660
Drexel University	93.866	800163	—	52,277
Duke Clinical Research Institute	93.866	203-8777	—	(6,314)
Fox Chase Chemical Diversity Center, Inc	93.866	TDP43-JH	—	157,621
George Washington University	93.866	17-M24	—	22,984
Great Lakes NeuroTechnologies. Inc.	93.866	16108690 Mari , Zolt	—	(115)
Harvard University	93.866	10.10.91531	—	6,625
Harvard University	93.866	92351	—	13,174
Indiana University	93.866	IN4683234JHU CS	—	16,325
Indiana University	93.866	IN-4683237-JHU	—	2,653
Kaiser Foundation Research Institute	93.866	RNG209386-JHU-01	—	176,412
Kennedy Krieger Institute	93.866	113254-0519-01	—	36,056
Longeveron, LLC	93.866	R42AG054322	—	36,209
Mayo Clinic	93.866	joh-225630-01	—	33,103
Medical University of South Carolina	93.866	MUSC14-072	—	415,430
Medical University of South Carolina	93.866	MUSC17-027-8A840	—	181,706
Northern California Institute for Research	93.866	SHL1947-01	—	161,569
Northern California Institute for Research	93.866	SHL2120-03	—	42,192
Northwestern University	93.866	60044416JHU	—	11,848
Northwestern University	93.866	60047861 JHU	—	9,409
Progenra, Inc	93.866	R44AG053092	—	239,855
Rush University	93.866	17091805-Sub02	—	58,639
University of California Los Angeles	93.866	1440 G WB118	—	17,461
University of California San Diego	93.866	94094821	—	68,778
University of California San Diego	93.866	Sub Award No 8858322	—	7,495
University of California San Francisco	93.866	10065sc	—	135,455
University of California San Francisco	93.866	10851sc	—	55,973
University of California San Francisco	93.866	Subaward No. 11244sc	—	26,097
University of Colorado	93.866	FY17.830.006	—	9,654
University of Florida	93.866	UFDSP00011485	—	13,049
University of Georgia	93.866	SUB00001855	—	198,251
University of Maryland Baltimore	93.866	WU-18-288	—	70,754
University of Maryland College Park	93.866	1600268	—	(4)
University of Maryland College Park	93.866	55401-Z0081201	—	30,764
University of Maryland College Park	93.866	65513-Z0159201	—	133,783
University of Michigan	93.866	3004704452	—	43,400
University of Minnesota	93.866	H004986804	88,866	96,364
University of Minnesota	93.866	N005175202	—	28,045
University of Minnesota	93.866	P007096955	—	118
University of North Carolina	93.866	5106145	—	118,384
University of North Texas	93.866	RF00016-2017-0031	—	55,706
University of North Texas	93.866	RF00108-2018-0160	—	85,551
University of Pittsburgh	93.866	0060606 (131896-1)	—	64,178
University of Pittsburgh	93.866	050794(128001-1)	—	338,278
University of Southern California	93.866	75680149	—	23,065
University of Southern California	93.866	79634876	10,911	53,242
University of Southern California	93.866	Subaward 105708311	—	3,516
University of Texas	93.866	UTA17-000230	—	74,616
University of Texas Dallas	93.866	1604881	—	57,685
University of Vermont	93.866	32667SUB52512	—	23,980
University of Washington	93.866	762183	—	42,858
University of Washington	93.866	UWSC10158	—	109,236
University of Washington	93.866	UWSC11049	—	60,803
University of Texas Southwestern Medical Center	93.866	GMO 161206	—	69,793
Wake Forest University	93.866	WFUHS 112941	—	31,312
Wake Forest University	93.866	WFUHS 552702	—	122,670

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Wake Forest University	93.866	WFUHS115068	$ —	7,636
Wake Forest University	93.866	WFUS 551083	—	63,295
Wake Forest University	93.866	WFUHS 114829	—	20,472
Washington University	93.866	WU-17-166	—	90,294
Wayne State University	93.866	WSU17053	—	22,040
Wistar Institute	93.866	sub 25601-03-381	—	3,467
Subtotal			14,998,444	58,658,315
Vision Research	93.867	Direct	1,736,044	23,025,374
Advanced Medical Electronics Corporation	93.867	AME16-DistanceFilter	—	60,147
Aptitude Medical Systems, Inc	93.867	AMS102018-1	—	71,910
Case Western Reserve University	93.867	RES512050	—	120,114
Celloptic, Inc	93.867	Sub#035 IPN18054106	—	52,966
Childrens Hospital of Philadelphia	93.867	3209850817	—	(1,146)
Cleveland Clinic Lerner College of Medicine	93.867	8860839	—	16,641
ICAHN School of Medicine at Mount Sinai	93.867	0255-0731-4609	—	91,970
ICAHN School of Medicine at Mount Sinai	93.867	0255-7712-4609	—	4,795
Jaeb Center for Health Research, Inc.	93.867	U10EY014231	—	94,291
Jaeb Center for Health Research, Inc.	93.867	U10EY11751	—	102,555
Jaeb Center for Health Research, Inc.	93.867	U10EY14231	—	(30,958)
Minnesota Health Solutions	93.867	PA-16-302	—	8,621
New York University Medical Center	93.867	U01EY026829-01	—	1,702
ONL Therapeutics	93.867	PO # 2018-0002	—	94,695
Stanford University	93.867	62015719-136077	—	50,270
University of California Davis	93.867	A17-0215-S001-A01	—	408,829
University of California San Diego	93.867	75885256	—	32,684
University of Maryland Baltimore	93.867	1701168/548	—	134,798
University of Maryland College Park	93.867	Subaward No. 1802235	—	33,193
University of Maryland College Park	93.867	Z0650001	—	190,886
University of North Carolina	93.867	5UG1EY025992-03	—	119,465
University of Notre Dame	93.867	202913JHU	—	462,489
University of Pennsylvania	93.867	570490	—	72,856
University of Washington	93.867	UWSC10167	—	304,243
University of Wisconsin Madison	93.867	514K216	—	28,255
Virginia Commonwealth University	93.867	FP00006729_SA001	—	223,861
Visionize LLC	93.867	1R44EY028077-01A1	—	174,524
Washington University	93.867	WU-16-113	—	12,694
Subtotal			1,736,044	25,962,724
Maternal, Infant and Early Childhood Home Visiting Grant Program	93.870	Direct	489,739	1,184,649
University of Colorado at Denver: Tribal Maternal, Infant, and Early Childhood Home Visiting	93.872	FY17.494.002	—	16,131
Medical Library Assistance	93.879	Direct	—	25,133
Associated Black Charities-Maryland: HIV Emergency Relief Project Grants	93.914	15-2481-MAI	—	(2,387)
Associated Black Charities-Maryland	93.914	16-2438-30AS	—	91
Associated Black Charities-Maryland	93.914	16-2438-CO1	—	519
Associated Black Charities-Maryland	93.914	17-2435-01A	—	(215)
Associated Black Charities-Maryland	93.914	17-2438-002	—	60
Associated Black Charities-Maryland	93.914	17-2438-016	—	(3,546)
Associated Black Charities-Maryland	93.914	17-2481	—	22
Associated Black Charities-Maryland	93.914	18-2435-002	—	46,964
Associated Black Charities-Maryland	93.914	18-2435-01A	—	32,022
Associated Black Charities-Maryland	93.914	18-2438-002	—	419,881
Associated Black Charities-Maryland	93.914	18-2438-007	—	27,649
Associated Black Charities-Maryland	93.914	18-2438-016	—	37,275
Associated Black Charities-Maryland	93.914	18-2438-019	—	35,998
Associated Black Charities-Maryland	93.914	18-2438-01A	—	715,158
Associated Black Charities-Maryland	93.914	18-2438-80	—	19,617
Associated Black Charities-Maryland	93.914	18-248-01E	—	132,452
Associated Black Charities-Maryland	93.914	18-2481-01A	—	147,306
Associated Black Charities-Maryland	93.914	18-2481-N01	—	65,761
Associated Black Charities-Maryland	93.914	18-2483-01A	—	138,308
Associated Black Charities-Maryland	93.914	18-2483-01E	—	5,797
Associated Black Charities-Maryland	93.914	18-2483-MC2	—	87,782
Associated Black Charities-Maryland	93.914	19-2433	—	112,338
Associated Black Charities-Maryland	93.914	19-2435-002	—	28,270
Associated Black Charities-Maryland	93.914	19-2435-01A	—	18,491
Associated Black Charities-Maryland	93.914	19-2438- Part A	—	15,752
Associated Black Charities-Maryland	93.914	19-2438-002	—	169,638
Associated Black Charities-Maryland	93.914	19-2438-016	—	26,698
Associated Black Charities-Maryland	93.914	19-2438-019	—	11,744
Associated Black Charities-Maryland	93.914	19-2438-01A	—	270,730
Associated Black Charities-Maryland	93.914	19-2438-01E	—	45,916
Associated Black Charities-Maryland	93.914	19-2438-080	—	8,973
Associated Black Charities-Maryland	93.914	19-2481-MAI	—	32,610
Associated Black Charities-Maryland	93.914	19-2483-01A	—	54,962
Associated Black Charities-Maryland	93.914	19-2483-01E	—	4,296
Associated Black Charities-Maryland	93.914	19-2483-MAI	—	39,881
Associated Black Charities-Maryland	93.914	Contract 18-2433	—	236,040
Baltimore City Health Department	93.914	38464	—	222,286
Baltimore City Health Department	93.914	38806	—	59,989
Baltimore City Health Department	93.914	38807	—	313,844
Baltimore City Health Department	93.914	39005	—	66,802
Subtotal			—	3,645,774
Baltimore City Health Department: HIV Care Formula Grants	93.917	37372	—	988,277
Subtotal			—	988,277

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Grants to Provide Outpatient Early Intervention Services with Respect to HIV Disease	93.918	Direct	$ —	290,935
Chase Brexton Health Services, Inc.	93.918	H76HA000080-24-00.	—	342
Subtotal			—	291,277
White Mountain Apache Tribe: Demonstration Projects for Indian Health	93.933	U261IHS0080	—	49,968
White Mountain Apache Tribe	93.933	U261IHS0093	—	43,634
Subtotal			—	93,602
Baltimore City Health Department: HIV Prevention Activities-Health Department Based	93.940	36926	—	(1,919)
Baltimore City Health Department	93.940	38258	—	41,198
Baltimore City Health Department	93.940	38259	—	31,360
Baltimore City Health Department	93.940	38309	—	133,484
Baltimore City Health Department	93.940	38385	—	94,290
Baltimore City Health Department	93.940	38390	—	115,891
Baltimore City Health Department	93.940	38768	—	55,153
Baltimore City Health Department	93.940	38812	—	388,502
Baltimore City Health Department	93.940	39035	—	297,297
Baltimore City Health Department	93.940	90076526	—	14,416
Baltimore City Health Department	93.940	CO 38932	—	54,737
Maryland Department of Health and Mental Hygiene	93.940	PHPA 16-280	—	(3,449)
Subtotal			—	1,220,960
University of Utah: Research, Prevention, and Education Programs on Lyme Disease in the United States	93.942	10049023-04	—	34,003
Maryland Department of Health and Mental Hygiene: Human Immunodeficiency Virus (HIV)/Acquired Immunodeficiency Virus Syndrome (AIDS) Surveillance	93.944	PHPA 18-315	—	202
University of Maryland College Park: Block Grants for Prevention and Treatment of Substance Abuse	93.959	53165 – Q0031201	—	11,153
University of Maryland College Park	93.959	66024-Q0169201	—	201,703
University of Maryland Baltimore	93.959	N217304-1	—	5,015
Subtotal			—	217,871
Preventative Health Services – Sexually Transmitted Diseases Control Grants	93.977	Direct	—	334,224
Baltimore City Health Department	93.977	38105	—	69,716
Baltimore City Health Department	93.977	38130	—	(355)
Baltimore City Health Department	93.977	38923	—	539,802
Maryland Department of Health and Mental Hygiene	93.977	I Want the Kit	—	1,593
Subtotal			—	944,980
Baltimore City Health Department: Preventative Health Services – Sexually Transmitted Diseases Research, Demonstrations, and Public Information and Education Grants	93.978	38111	—	(19,749)
Baltimore City Health Department	93.978	38392	—	65,383
Baltimore City Health Department	93.978	38547	—	210,842
Subtotal			—	256,476
International Research and Research Training	93.989	Direct	904,008	2,791,279
Addis Ababa University	93.989	5D43TW010143	—	74,746
Addis Ababa University	93.989	JHU IO#90072731	—	13,576
Emory University	93.989	A079034	—	54,721
Makerere University	93.989	90067581	—	98,159
Makerere University	93.989	MakCHS102018	—	14,093
Makerere University	93.989	R25TW011213	—	32,341
Northwestern University	93.989	60043069 JHU	—	47,779
Tulane University	93.989	554752	—	26,235
University of Bamako	93.989	USTTB-JHBSPH 5D43...	—	118,061
University of Cape Town	93.989	28,292	—	25,634
University of Chicago	93.989	FP066481-01-PR	—	8,692
University of North Carolina	93.989	5108724	—	100,881
University of Pennsylvania	93.989	563418	—	15,340
Universidad Peruana Cayetano Heredi	93.989	004-17	—	42,014
Subtotal			904,008	3,463,551
Maryland Department of Health and Mental Hygiene: Maternal and Child Health Services Block Grant to the States	93.994	FH342GEN PHPA-2744	—	120,030
Maryland Department of Health and Mental Hygiene	93.994	FH342GEN PHPA-G-2389	—	(1,612)
Maryland Department of Health and Mental Hygiene	93.994	FH80TIN PHPA-G-2740	—	24,122
Maryland Department of Health and Mental Hygiene	93.994	FH865GEN PHPA-G2388	4,143	113,851
Maryland Department of Health and Mental Hygiene	93.994	FHE78ITC PHPA-G-2737	—	(157)
Maryland Department of Health and Mental Hygiene	93.994	J-Train FHE80TIN	—	73,414
Subtotal			4,143	329,648
Autism and Other Developmental Disabilities, Surveillance, Research, and Prevention	93.998	Direct	—	131,590
Department of Health and Human Services	93.UNKNOWN	Direct	6,098,957	41,072,345
American College of Physicians	93.UNKNOWN	TO-JHU-November 23-2	—	61,239
American Institutes for Research	93.UNKNOWN	0417400005	—	19,751
American Institutes for Research	93.UNKNOWN	04444800002	—	69,729
Associated Black Charities-Maryland	93.UNKNOWN	15-2481 MAI	—	(1,467)
Associated Black Charities-Maryland	93.UNKNOWN	18-2483-004	—	41,231
Boston College	93.UNKNOWN	5105461-3	—	6,527
Boston Public Schools	93.UNKNOWN	90076600	—	12,200
Center for Naval Analyses	93.UNKNOWN	17-JHU-1-1415	—	105,871
Chinle Comprehensive Health Care Facility	93.UNKNOWN	HHSI245201701224P	—	22,031
Chinle Comprehensive Health Care Facility	93.UNKNOWN	HHSI245201800019A	—	224,562
Chinle Comprehensive Health Care Facility	93.UNKNOWN	HHSI245201801246P	—	64,496
Circulomics, Inc.	93.UNKNOWN	SC10007	—	81,573
Circulomics, Inc.	93.UNKNOWN	SC10008	—	96,434
Clinical Research Management, Inc.	93.UNKNOWN	HHSN272200800026C	—	10
Coalition of Cancer Cooperative Groups	93.UNKNOWN	N02-CM-62212	—	(12,213)
Duke Clinical Research Institute	93.UNKNOWN	218094	—	5,879
Duke University	93.UNKNOWN	210424	—	18,500
Duke University	93.UNKNOWN	218090	—	3,000
Eastern Virginia Medical School	93.UNKNOWN	S270151-9	—	5,129
Eastern Virginia Medical School	93.UNKNOWN	90078921	—	94,772
Emmes Corporation	93.UNKNOWN	AREDS2 10-YEAR FOLLO	—	48,890
Emory University	93.UNKNOWN	90083753	—	17,644

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Fast Track Drugs and Biologics LLC	93.UNKNOWN	HHSN27500003-1061-NC	$ —	79,340
Fedpoint Systems, LLC	93.UNKNOWN	90079840	—	94,995
GlaxoSmithKline, LLC	93.UNKNOWN	P1093	704,133	713,831
Harvard Pilgrim Health Care	93.UNKNOWN	90067892	—	99,238
Harvard Pilgrim Health Care	93.UNKNOWN	90071969	—	10,490
Health Research and Educational Trust	93.UNKNOWN	HHSP233201500016I HH	—	12,685
ICF Incorporated LLC	93.UNKNOWN	15LDSK0080	—	27,960
ICF Incorporated LLC	93.UNKNOWN	18CKSK0038	—	37,582
International Agency for Research on Cancer	93.UNKNOWN	CRA/GEP/2018/8	—	7,009
International Business Machines	93.UNKNOWN	SOW #CW2931645	—	33,378
International Centre for Diarrheal Disease Research, Bangladesh	93.UNKNOWN	90074420	—	6,286
Janssen Research and Development, LLC	93.UNKNOWN	Janssen 63623872FLZ3	—	6,713
Johns Hopkins Bayview Medical Center	93.UNKNOWN	90069110	—	301,193
Leidos, Inc.	93.UNKNOWN	17X175	—	2,410
Leidos, Inc.	93.UNKNOWN	18x078Q	—	249,051
Leidos, Inc.	93.UNKNOWN	18X078QT2	—	228,522
Leidos, Inc.	93.UNKNOWN	Agreement No. 17X197	—	69,573
Maryland Department of Health and Mental Hygiene	93.UNKNOWN	PHPA 18 316	—	29,949
Maryland Department of Health and Mental Hygiene	93.UNKNOWN	PHPA-2883 MDM0031038	—	36,719
Mathematica Policy Research, Inc.	93.UNKNOWN	50295S05470	—	(66)
MDRC	93.UNKNOWN	90055209	—	128,266
Michigan Public Health Institute	93.UNKNOWN	Q-38841-115-504200	—	13,096
Minneapolis Medical Research Foundation	93.UNKNOWN	HHSH250201500009C	—	37,529
Minneapolis Medical Research Foundation	93.UNKNOWN	LDC Pilot	—	30,443
Mount Sinai Medical Center	93.UNKNOWN	90074325	—	9,591
MRIGlobal	93.UNKNOWN	698-111009-1	—	181,817
National Jewish Health	93.UNKNOWN	HHSN272201000020C	(34,650)	(34,190)
Northwestern University	93.UNKNOWN	SP0016040	—	19,470
Northwestern University	93.UNKNOWN	SP0033779 60044358	—	19,407
Olive View-UCLA Education & Research Institute	93.UNKNOWN	#15-08	—	478
Papgene, Inc	93.UNKNOWN	HHSN261201600034C	—	108,568
Radiation Monitoring Devices, Inc.	93.UNKNOWN	Novel High Resolut.	—	26,628
Radiopharmaceutical Imaging & Dosimetry	93.UNKNOWN	90077083	—	9,317
Research Triangle Institute	93.UNKNOWN	1-340-0216610-65527L	—	201,650
Research Triangle Institute	93.UNKNOWN	2-340-0214034-521721	—	254,718
Sibtech, Inc.	93.UNKNOWN	0073JHU	—	261,586
Simon Frasor University	93.UNKNOWN	37543	—	5,233
Social and Scientific Systems, Inc.	93.UNKNOWN	CRB-SSS-S-17-005219	—	20,611
Social and Scientific Systems, Inc.	93.UNKNOWN	PHRSSSS15004516	—	91,913
Social and Scientific Systems, Inc.	93.UNKNOWN	PHR-SSS-S-18-005439	—	19
State of New Jersey	93.UNKNOWN	18VMZP	—	848,371
Terumbo BCT Biotechnologies, LLC	93.UNKNOWN	HHSO100201600013C	—	378,002
The Kirby Institute, UNSW	93.UNKNOWN	90080880	—	184
TKC Global Solutions	93.UNKNOWN	90066763	—	22,377
Truven Health Analytics, Inc.	93.UNKNOWN	200-2015-F87943	—	86,782
Tuba City Regional Health Care Corporation	93.UNKNOWN	09062268 Serwint , J	—	76,578
University of Alabama Birmingham	93.UNKNOWN	000406257-037	—	6,935
University of Alabama Birmingham	93.UNKNOWN	000500918-T013-012	—	18,581
University of Alabama Birmingham	93.UNKNOWN	000500918-T016-003	—	7,174
University of Alabama Birmingham	93.UNKNOWN	406268-004	—	7,560
University of Arizona	93.UNKNOWN	HHSN26100006	—	38,693
University of California San Francisco	93.UNKNOWN	8284sc	—	113,018
University of Maryland Medical Center	93.UNKNOWN	1802185	—	27,789
University of Michigan	93.UNKNOWN	3003720121	—	17,985
University of Mississippi Medical Center	93.UNKNOWN	66102690414-04JHU	—	4,842
University of Mississippi Medical Center	93.UNKNOWN	66102690418-04JHU2	—	2,539
University of North Carolina	93.UNKNOWN	5106339	—	30,350
University of North Carolina	93.UNKNOWN	5109239	—	54,203
University of North Carolina	93.UNKNOWN	5112634	—	68,534
University of South Florida	93.UNKNOWN	90082257	—	33,309
University of Southern California	93.UNKNOWN	79573896	—	1,761
University of Southern California	93.UNKNOWN	JHU IO#90075371	—	(8,245)
University of Washington	93.UNKNOWN	90068000	—	6,476
University of Washington	93.UNKNOWN	UWSC8538	—	527,246
University of Wisconsin Madison	93.UNKNOWN	525K011	—	51
University of Wisconsin Madison	93.UNKNOWN	754K666	—	8,423
Universidad Peruana Cayetano Heredi	93.UNKNOWN	90075668	—	23,283
Universidad Peruana Cayetano Heredi	93.UNKNOWN	90075797	—	23,142
Universidad Peruana Cayetano Heredi	93.UNKNOWN	90075853	—	65,268
Weill Medical College of Cornell University	93.UNKNOWN	15030286	—	(745)
Westat, Inc.	93.UNKNOWN	6101-S068	—	31,101
Westat, Inc.	93.UNKNOWN	6579-S06	—	200,195
White Mountain Apache Tribe	93.UNKNOWN	90077218	—	273,425
White Mountain Apache Tribe	93.UNKNOWN	90080640	—	139,662
White Mountain Apache Tribe	93.UNKNOWN	90080642	—	44,592
White Mountain Apache Tribe	93.UNKNOWN	90080643	—	27,133
Subtotal			6,768,440	48,697,715
Department of Health and Human Services Total – Other Divisions			137,860,203	866,125,047
Social Security Administration:				
University of Michigan: Social Security Research and Demonstration	96.007	Direct	—	70,505
Social Security Administration Total – Other Divisions			—	70,505
Department of Homeland Security:				
Assistance to Firefighters Grant	97.044	Direct	—	295,377
Department of Homeland Security	97.UNKNOWN	Direct	—	595,397
Battelle Memorial Institute	97.UNKNOWN	585362	—	90,365
Subtotal			—	685,762
Department of Homeland Security Total – Other Divisions			—	981,139
Director of National Intelligence:				
Director of National Intelligence	99.UNKNOWN	Direct	—	1,510,728
University of Maryland College Park	99.UNKNOWN	68454-Z9259204	—	41,148
Director of National Intelligence Total – Other Divisions			—	1,551,876
Research and Development Cluster Total – Other Divisions			159,166,140	1,033,379,120
Research and Development Cluster Total			351,736,576	2,727,263,060

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Cooperative Agreements:				
United States Agency for International Development:			$	
USAID Foreign Assistance for Programs Overseas JHIEPGO	98.001	Direct	75,470,958	213,246,399
ABT Associates	98.001	45820	—	227,122
JSI Research and Training Institute	98.001	36991.001	132,174	16,045,891
JSI Research and Training Institute	98.001	JSI-IHSS/003/Jhpiego	—	248,208
Population Council	98.001	SH1615	—	245,400
Population Council	98.001	SH1709	—	(7,378)
Research Triangle Institute	98.001	1-330-0213764-51525L	—	162,872
Research Triangle Institute	98.001	2-330-0216277-65185L	—	278,194
Save the Children Foundation	98.001	84001621	—	590,446
Save the Children Foundation	98.001	84001965	—	412,209
Save the Children Foundation	98.001	84004093	—	875,292
Save the Children Foundation	98.001	84005050	—	161,760
University Research Corp.	98.001	FY16-A02-7028	—	269,690
Subtotal JHPIEGO			75,603,132	232,756,105
USAID Foreign Assistance for Programs Overseas – Other Divisions	98.001	Direct	22,390,717	94,967,460
ABT Associates	98.001	CPA# 32077	—	6,781
Care, Inc.	98.001	90059395	—	203,774
Conrad Program	98.001	MAPS2-18-089	—	223,349
FHI 360	98.001	PO16002210	—	31,742
FHI 360	98.001	PO18003125	—	235,756
Interactive Research and Development	98.001	90077866	—	147,953
Intrahealth International, Inc.	98.001	2016-13	—	746,662
Leidos, Inc	98.001	PO10181409 R4	—	4,134
Management Sciences for Health	98.001	72068718CA00003	—	119,831
Pact World	98.001	268-000064	—	257,287
Population Council	98.001	SH1420	361,136	1,612,064
Public Health Institute	98.001	01155	—	451,767
Save the Children Federation	98.001	720FDA18CA00051	—	369,172
Tufts University	98.001	AID-OAA-L-10-00006	—	360,977
University of North Carolina	98.001	5104469	—	20,077
University of North Carolina	98.001	AID-OAA-L-14-00004	—	12,751
Winrock International	98.001	90081196	—	55,965
Subtotal Other Divisions			22,751,853	99,827,502
Subtotal			98,354,985	332,583,607
Cooperative Development Program (CDP)	98.002	Direct	—	104,300
Leidos, Inc: Non-Governmental Organization Strengthening	98.004	P010181409 R6	—	5,857
Foreign Assistance to American Schools and Hospitals Abroad (ASHA)	98.006	Direct	—	223,700
Food for the Hungry: Food for Peace Development Assistance Program (DAP)	98.007	FH-GTO-17C-001	—	189,869
United States Agency for International Development	98.UNKNOWN	Direct	1,525,714	9,342,249
Churches Health Association of Zambia	98.UNKNOWN	AID-611-15-000001	—	1,193,573
Malaria Consortium	98.UNKNOWN	AID-617-C-160001	—	886,405
Management Sciences for Health	98.UNKNOWN	AID-669-C-15-00001	—	32,636
Palladium International Limited	98.UNKNOWN	217727JHPIEGOT0201	—	68,736
Palladium International Limited	98.UNKNOWN	72062018D00001	—	30,701
Palladium International Limited	98.UNKNOWN	WA-U-X-NG-Palladium-	—	93,656
Populations Services International	98.UNKNOWN	4442-Jhpiego-21Apr18	—	3,394,123
Program for Appropriate Technology	98.UNKNOWN	AID.2052-01011025CRT	—	309,065
Research Triangle Institute	98.UNKNOWN	2-330-0213728	—	(8,105)
Subtotal JHPIEGO			1,525,714	15,343,039
United States Agency for International Development	98.UNKNOWN	Direct	—	255,943
Concern Worldwide, Inc.	98.UNKNOWN	BBE-JHU-001	—	20,341
Conrad Program	98.UNKNOWN	APSC-17-042	—	24,113
FHI 360	98.UNKNOWN	0936.0205	455,323	466,765
Georgetown University	98.UNKNOWN	411228_GR410977	235,921	386,362
ICF Incorporated LLC	98.UNKNOWN	13SZSK0251	—	229,463
ICF International	98.UNKNOWN	18MQSK0067	—	49,891
International Centre for Diarrhoeal Disease Research, Bangladesh	98.UNKNOWN	90077504	—	29,031
Leidos, Inc.	98.UNKNOWN	PO10181409 R1	—	(41,255)
Leidos, Inc.	98.UNKNOWN	PO108181409 R5	—	39,659
Program for Appropriate Technology	98.UNKNOWN	AID.2052-01011028	—	55,433
Research Triangle Institute	98.UNKNOWN	90081044	—	369,979
The Visionaria Network	98.UNKNOWN	90083063	—	4,805
Uganda Health Marketing Group	98.UNKNOWN	UHMG2016-901-70	—	17,369
University of Washington	98.UNKNOWN	UWSC10507	—	29,511
Vital Strategies	98.UNKNOWN	90078939	—	77,936
Witkoppen Health and Welfare Center	98.UNKNOWN	00001	—	17,293
Witkoppen Health and Welfare Center	98.UNKNOWN	90065206	—	33,711
Wits Reproductive Health and HIV Institute	98.UNKNOWN	90067639	—	8,573
World Vision International	98.UNKNOWN	26436	—	36,818
Subtotal Other Divisions			691,244	2,111,741
Subtotal			2,216,958	17,454,780
Agency for International Development – Cooperative Agreements Total			100,571,943	350,562,113
Student Financial Assistance:				
Department of Education:				
Federal Supplemental Educational Opportunity Grants	84.007	Direct	—	1,055,304
Federal Work-Study Program	84.033	Direct	—	1,871,396
Federal Perkins Loan	84.038	Direct	—	18,976,101
Federal Pell Grant Program	84.063	Direct	—	4,068,355
Federal Direct Student Loans	84.268	Direct	—	159,452,000
Department of Education Subtotal			—	185,423,156

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Schedule of Expenditures of Federal Awards

Year ended June 30, 2019

Federal grantor/pass-through grantor/program or cluster title	Federal CFDA number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Department of Health and Human Services:				
Nurse Faculty Loan Program	93.264	Direct	$ —	1,583,829
Nursing Student Loans	93.364	Direct	—	104,703
Department of Health and Human Services Subtotal			—	1,688,532
Student Financial Assistance Total			—	187,111,688
Training:				
Department of Agriculture:				
Soil and Water Conservation	10.902	Direct	—	28,810
Department of the Interior Total			—	28,810
Department of Defense:				
Military Medical Research and Development	12.420	Direct	—	379,343
Information System Grants	12.902	Direct	—	49,887
Department of Defense Total			—	429,230
National Aeronautics and Space Administration:				
Science	43.001	Direct	—	40,601
Cross Agency Support	43.009	Direct	—	25,657
National Aeronautics and Space Administration Total			—	66,258
Maryland Department of Education: Special Education-Grants for Infants and Families	84.181	181730	—	216,668
Temple University: Research in Special Education	84.324	261770-JHU	—	118,784
Columbia University: English Language Acquisition State Grants	84.365	511238-01	—	97,888
Department of Education Total			—	433,340
Department of Health and Human Services:				
Maryland Department of Health and Mental Hygiene: Environmental Public Health and Emergency Response	93.070	G – 2633	—	7,781
Maryland Department of Health and Mental Hygiene	93.070	G-3105	—	31,535
Subtotal			—	39,316
Childrens Hospital of Philadelphia: Blood Disorder Program: Prevention, Surveillance, and Research	93.080		—	25,768
Maternal and Child Health Federal Consolidated Programs	93.110	Direct	—	598,723
Childrens Hospital of Philadelphia	93.110	3209610516-P	—	47,333
Subtotal			—	646,056
Preventative Medicine and Public Health Residency Training Program, Integrative Medicine Program, and National Center for Integrative Primary Healthcare	93.117	Direct	—	73,033
Injury Prevention and Control Research and State and Community Based Programs	93.136	Direct	—	135,415
AIDS Education and Training Centers	93.145	Direct	—	10,729
University of Pittsburgh	93.145	0050178 (126702-3)	—	(72)
University of Pittsburgh	93.145	0050178 (129935-3)	—	3,131
University of Pittsburgh	93.145	0050178 (131293-3)	—	229,821
University of Pittsburgh	93.145	0056096 (130384-2)	—	(101)
University of Pittsburgh	93.145	0056096 (131886-3)	—	6,984
Subtotal			—	250,492
National Research Service Award in Primary Care Medicine	93.186	Direct	—	368,764
Substance Abuse and Mental Health Services – Projects of Regional and National Significance	93.243	Direct	22,506	152,047
Advanced Nursing Education Workforce	93.247	Direct	27,152	949,428
Occupational Safety and Health Program	93.262	Direct	24,832	1,555,082
College of Health Sciences Addis Ababa University: Global HIV/AIDS Program	93.266	T84HA21124-01-00	—	378
Kennedy Krieger Institute: CDC Undergraduate Public Health Scholars Program	93.456	113196-0918-01	—	838
University of Pittsburgh: Public Health Training Centers Program	93.516	0061461 (131334-2)	—	96,422
University of Pittsburgh	93.516	0044318	—	3,079
Subtotal			—	99,501
Health Careers Opportunity Program	93.822	Direct	—	599,680
Grants for Primary Care Training and Enhancement	93.884	Direct	—	374,933
HIV Demonstration, Research, Public and Professional Education Projects	93.941	Direct	—	279,341
PPHF Geriatric Education Grants	93.969	Direct	221,580	839,589
Department of Health and Human Services Total			296,070	6,389,661
Training Total – Other Divisions			296,070	7,347,299
Total expenditures of federal awards			$ 452,604,589	3,272,284,160

See accompanying independent auditors' report.

(1) Basis of Presentation

The accompanying schedule of expenditures of federal awards (the Schedule) summarizes the expenditures of The Johns Hopkins University (the University) under programs of the federal government for the year ended June 30, 2019. The Schedule was prepared in accordance with the requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance).

For purposes of the Schedule, federal awards include all grants, contracts, and similar agreements entered into directly between the University and agencies and departments of the federal government and all subawards made to the University by nonfederal organizations pursuant to federal grants, contracts, and similar agreements. For schedule presentation purposes, awards are grouped into the following categories:

Research and Development – Includes awards for research and development work at the University's Applied Physics Laboratory (APL), provided primarily under cost plus fixed fee type contracts with agencies of the Department of Defense (DOD), and for work at the University's academic divisions, primarily under grants with agencies and divisions of the Department of Health and Human Services (DHHS). Information about specific subagencies within these federal government agencies and departments is provided in notes 4 and 5 to the Schedule.

Student financial aid – Includes awards to provide financial assistance to students under Federal Work Study (FWS), Federal Pell Grants (Pell), Federal Supplemental Educational Opportunity Grants (FSEOG), loan disbursements under the Federal Perkins, and Federal Direct Student Loan Programs of the Department of Education as well as Nurse Facility Loan, and Nursing Student Loans Programs of the Department of Health and Human Services.

Cooperative agreements – Includes awards for international assistance projects sponsored by the Agency for International Development (AID) to Jhpiego Corporation, a separate corporate entity controlled by the University, and certain departments of the University's Bloomberg School of Public Health (with respect to population information, population communication services, and various other projects). Specific grant information is included in note 6 to the Schedule.

Training and other – Includes awards to support research training for graduate and other students, primarily under programs of the National Institutes of Health, and other student related assistance programs that are not considered part of the research and development cluster under Uniform Guidance.

The University receives pass through awards from approximately 400 different institutions and not for profit organizations. Information about significant pass through organizations is presented on the schedule of expenditures of federal awards. The University makes payments to approximately 700 subrecipient organizations. Information about significant subrecipients is presented on the schedule of expenditures of federal awards. The Schedule does not include federal awards expenditures, if any, of The Johns Hopkins Health System Corporation (JHHS) or any of its member institutions. JHHS and its member institutions are incorporated and governed separately from the University and their accounts are not included in the University's financial statements.

(2) Summary of Significant Accounting Policies for Federal Awards

(a) General

For purposes of the Schedule, expenditures for federal award programs are recognized on an accrual basis of accounting.

(b) Applied Physics Laboratory

The Applied Physics Laboratory's (APL) federal award expenditures relate primarily to costs incurred and fees earned under cost plus fixed fee type contracts with agencies of the DOD. Costs incurred and fees earned under these contracts are determined in accordance with the terms of the contracts and the contract cost principles and procedures set forth in the Federal Acquisition Regulation (FAR) and, where applicable, agency acquisition regulations that implement or supplement the FAR. Under terms of the contracts and provisions of the FAR, certain expenditures are not allowable or are limited as to reimbursement. Expenditures include indirect costs, relating primarily to general and administrative activities and technical supervision and services at the APL, which are allocated to the direct cost objectives (including federal awards) which benefit from the activities using bases and methods considered appropriate for the various types of costs involved. Indirect costs are allocated to federal awards and billed to sponsoring agencies during each cost accounting period based on agreed upon provisional rates; variances between actual costs incurred and costs allocated and billed using the provisional rates are adjusted periodically. For purposes of the Schedule, the variance for the year ended June 30, 2019 was allocated to individual awards based on their proportionate federal award expenditures for the period. Fees earned on cost plus fixed fee type contracts are recognized as related expenditures are incurred and included as contract costs in the Schedule.

For contract administration purposes, the year end date for the APL's principal contracts with agencies of the DOD is September 30. The information in the Schedule with respect to these contracts is presented to comply with the Uniform Guidance requirements and is not intended to provide the sole basis for administrative closeout of the contracts.

(c) Academic and Other Divisions

Expenditures for federal student financial aid programs are recognized as incurred and include Pell grants to students, the federal share of students' FSEOG grants and FWS program earnings, loan disbursements, certain other federal financial assistance grants for students, and administrative cost allowances, where applicable.

Expenditures for other federal awards of the University's academic and other divisions, including Jhpiego Corporation are determined using the cost accounting principles and administrative procedures set forth in 2 Code of Federal Regulation (CFR) Part 220, *Cost Principles for Educational Institutions* (OMB Circular A-21) and 2 CFR Part 215, *Administrative Requirements for Grants and Other Agreements with Institutions of Higher Education, Hospitals, and Other Nonprofit Organizations* (OMB Circular A-110). Under the cost principles, certain expenditures are not allowable or are limited as to reimbursement.

Expenditures for nonfinancial aid awards include facilities and administrative (F&A) costs, relating primarily to facilities operation and maintenance and general, divisional, and departmental administration services, which are allocated to direct costs (including federal awards) based on

negotiated percentages of direct expenditures, with certain exclusions. F&A costs allocated to such awards for the year ended June 30, 2019 were based on predetermined rates established with DHHS, the University's cognizant federal agency. The University did not elect to apply the 10% De Minimus indirect cost rate permitted by Uniform Guidance.

(3) Summary of Facilities and Administrative Costs

F&A cost recoveries for the University's academic and other divisions, including Jhpiego Corporation (excluding APL) for the year ended June 30, 2019 are summarized as follows (in thousands):

Research and development	$	268,673
Cooperative agreements:		
Jhpiego Corporation		28,596
Other		13,515
Training and other similar agreements		637
Total	$	311,421

(4) Expenditures under Awards from the Department of Defense

Federal award expenditures for research and development and training and other programs under agreements with agencies of the DOD for the year ended June 30, 2018 are summarized as follows (in thousands):

APL:		
Air Force	$	38,696
Army		24,273
Defense Advanced Research Project Agency		31,130
Maryland Procurement Office		24,691
Missile Defense Agency		143,157
National Reconnaissance Office		549
Defense Threat Reduction Agency		401
Navy and Office of Naval Research		674,238
Office of the Under Secretary of Defense for Intelligence		311
U.S. Government (highly classified contracts)		295,531
Washington Headquarters Services		2,933
Uniformed Services University of the Health Services		564
Other		639
Total APL		1,237,113

Other divisions:		
Air Force	$	7,374
Army		44,077
Defense Advanced Research Project Agency		10,009
Navy and Office of Naval Research		18,917
National Security Agency		7,265
Defense Threat Reduction Agency		1,418
Missile Defense Agency		158
Uniformed Services University of the Health Services		190
Washington Headquarters Services		350
Other sources		36
Total other divisions		89,794
Total DOD	$	1,326,907

APL award expenditures summarized under U.S. Government Strategic and Special Operations include awards for which the specific funding source within the DOD has not been presented for classified reasons.

(5) Expenditures under Awards from the Department of Health and Human Services

Federal awards from DHHS for research and development and training and other agreements include awards from various centers, divisions, and institutes of DHHS. Federal award expenditures by funding source within DHHS for the year ended June 30, 2019 are summarized as follows (in thousands):

DHHS Funding Source		Research and development (R&D)	Student financial aid training and other	APL (R&D)	Total
National Institutes of Health:					
National Heart, Lung and Blood Institute	$	85,138	—	—	85,138
National Cancer Institute		76,114	—	—	76,114
National Institute of Allergy and Infectious Diseases		140,138	—	—	140,138
National Institute on Drug Abuse		40,766	—	—	40,766
National Institute of Neurological Disorders and Stroke		50,936	—	—	50,936
National Institute of Mental Health		34,024	—	—	34,024
National Institute of General Medical Sciences		42,457	—	—	42,457
National Eye Institute		26,012	—	—	26,012
National Institute of Diabetes and Digestive and Kidney Diseases		33,902	—	—	33,902
National Institute on Aging		59,878	—	—	59,878
National Institute of Child Health and Human Development		23,026	—	—	23,026
National Institute of Environmental Health Sciences		12,695	—	—	12,695
National Institute on Deafness and Other Communication Disorders		17,490	—	—	17,490

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2019

DHHS Funding Source	Research and development (R&D)	Student financial aid training and other	APL (R&D)	Total
National Institute of Arthritis and Musculoskeletal and Skin Diseases	$ 9,192	—	—	9,192
National Institute on Alcohol Abuse and Alcoholism	5,202	—	—	5,202
National Institute of Biomedical Imaging and Bioengineering	13,442	—	—	13,442
National Institute of Dental and Craniofacial Research	3,211	—	—	3,211
National Institute of Nursing Research	3,301	—	—	3,301
National Human Genome Research Institute	13,960	—	—	13,960
National Library of Medicine	225	—	—	225
John E. Fogarty International Center	3,622	—	—	3,622
National Center for Complementary and Alternative Medicine	1,691	—	—	1,691
National Center on Minority Health and Health Disparities	5,329	—	—	5,329
National Center for Advancing Translational Sciences (NCATS)	13,671	—	—	13,671
National Institute of Health-Office of the Director	16,050	—	—	16,050
National Institutes of Health: Clinical Center	155	—	—	155
National Institutes of Health: Other Sources	—	—	1,743	1,743
Total NIH	731,627	—	1,743	733,370
Centers for Disease Control and Prevention	90,733	2,036	747	93,516
Health Resources and Services Administration	15,406	5,890	—	21,296
Agency for Healthcare Research and Quality	14,438	—	—	14,438
Food and Drug Administration	2,334	—	—	2,334
Substance Abuse and Mental Health Services Administration	1,610	152	—	1,762
Centers for Medicare & Medicaid Services	80	—	—	80
Administration for Children & Families	5,536	—	—	5,536
Administration For Community Living	79	—	—	79
Office of Adolescent Health	180	—	—	180
Office of Population Affairs	9	—	—	9
Office of the Assistant Secretary for Health	1,790	—	—	1,790
Assistant Secretary for Preparedness & Response	1,248	—	—	1,248
Indian Health Service	1,056	—	—	1,056
DHHS-other sources	—	—	127	127
Total DHHS	$ 866,126	8,078	2,617	876,821

(Continued)

(6) Expenditures under Awards from United States Agency for International Development (USAID)

Federal award expenditures under agreements with USAID by funding award for the year ended June 30, 2019 are summarized as follows (in thousands):

CFDA	Grant identifier	Total
98.001	AID-OAA-A-14-00028	$ 93,869
98.001	AID-OAA-A-17-00017	37,998
98.001	AID-621-A-15-00003	36,467
98.001	AID-621-A-16-00003	18,377
98.001	36991.001	16,046
98.001	AID-615-A-17-00004	16,039
98.001	AID-OAA-A-14-00057	15,983
98.001	AID-306-A-15-00002	10,898
98.001	AID-612-A-16-00001	10,797
98.001	AID-688-A-15-00001	10,280
98.001	AID-674-A-15-00005	7,996
98.001	AID-388-LA-13-00004	5,932
98.001	AID-656-A-17-00005	5,083
98.001	AID-482-A-17-00002	5,076
98.001	AID-663-A-12-00008	4,713
98.001	AID-492-A-13-00005	4,328
98.001	AID-675-A-16-00001	4,311
98.001	AID-663-A-15-00011	4,227
98.001	AID-OAA-A-13-00068	4,186
98.001	AID-624-A-13-00010	3,874
98.001	AID-388-A-17-00002	2,620
98.001	SH1420	1,612
98.001	AID-668-A-15-00001	1,212
98.001	84004093	875
98.001	AID-OAA-LA-15-00003	844
98.001	2016-13	747
98.001	AID-OAA-A-15-00064	679
98.001	84001621	590
98.001	01155	452
98.001	AID-OAA-F-1600096	441
98.001	84001965	412
98.001	AID386F160000200	410
98.001	720FDA18CA00051	369
98.001	AID-OAA-L-10-00006	361
98.001	AID-OAA-F-15-00038	345
98.001	2-330-0216277-65185L	278
98.001	FY16-A02-7028	270

(Continued)

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2019

CFDA	Grant identifier	Total
98.001	268-000064	$ 257
98.001	AID-OAA-F-16-00087	254
98.001	JSI-IHSS 003 Jhpiego	248
98.001	SH1615	245
98.001	PO18003125	236
98.001	AID-OFDA-G-17-00192	231
98.001	45820	227
98.001	MAPS2-18-089	223
98.001	90059395	204
98.001	Other Grants less than $200k	1,462
		332,584
98.002	Grants less than $200k	104
		104
98.004	Grants less than $200k	6
		6
98.006	AID-ASHA-G-16-00005	202
98.006	Other Grants less than $200k	21
		223
98.007	Grants less than $200k	190
		190
98.UNKNOWN	72061518C00001	9,303
98.UNKNOWN	4442-Jhpiego-21Apr18	3,394
98.UNKNOWN	AID-611-15-000001	1,194
98.UNKNOWN	AID-617-C-160001	886
98.UNKNOWN	0936.0205	467
98.UNKNOWN	411228 GR410977	386
98.UNKNOWN	90081044	370
98.UNKNOWN	AID.2052-01011025CRT	309
98.UNKNOWN	7200AA19CA00001	252
98.UNKNOWN	13SZSK0251	229
98.UNKNOWN	Other Grants less than $200k	665
		17,455
		$ 350,562

(Continued)

(7) Expenditures under Awards from Other Federal Agencies

Federal award expenditures under agreements with other federal agencies by funding source for the year ended June 30, 2019 are summarized as follows (in thousands):

		Total
APL:		
National Oceanic and Atmospheric Administration	$	578
Department of Transportation		1,656
Department of the Interior		289
Department of State		2,456
Department of Justice		3,174
Executive Office of the President		1,195
Intelligence Advanced Research Projects Activity		20,647
U.S. Government (highly classified contracts)		73,986
Other sources		148
Total other federal-APL		104,129
Other divisions:		
Department of Agriculture		3,414
Department of State		199
Environmental Protection Agency		1,224
Department of Justice		1,851
National Institute of Standards and Technology		342
Department of the Interior		303
Department of Veterans Affairs		86
Institute for Museum and Library Service		88
National Oceanic and Atmospheric Administration		304
Department of Transportation		132
Department of Housing and Urban Development		798
Central Intelligence Agency		(145)
National Endowment for the Humanities		152
Director of National Intelligence		1,552
Other sources		71
Total other federal-other divisions		10,371
Total other federal	$	114,500

APL award expenditures summarized under U.S. government include awards for which the specific funding source within the federal government has not been presented for classified reasons.

(8) Federal Student Loan Programs and Related Matters

The Federal Perkins (Perkins), Nurse Faculty Loan (NFLP), and Nursing Student Loan (NSL) Programs are administered directly by the University and balances and transactions relating to these programs are included in the University's consolidated financial statements. The current year loaned amounts under the Perkins, NFLP, and NSL programs were $0, $753,525, and $0, respectively. The amount of Perkins, NFLP, and NSL loans on the schedule of expenditures of federal awards includes the beginning outstanding loan balance, the current year loaned amount and the administrative charge. The balances of loans outstanding under the Perkins, NFLP, and NSL programs were $14,491,265, $1,432,769, and $79,646, respectively, as of June 30, 2019.

The University is responsible only for the performance of certain administrative duties with respect to the federal direct loan programs, and accordingly, these loans are not included in its consolidated financial statements and it is not practical to determine the balance of loans outstanding to students and former students of the University under these programs as of June 30, 2019. Direct loans issued during the year ended June 30, 2019 are included on the Schedule.

SECTION B

KPMG LLP
750 East Pratt Street, 18th Floor
Baltimore, MD 21202

Independent Auditors' Report 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*

The Board of Trustees
The Johns Hopkins University:

We have audited, in accordance with the 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, the consolidated financial statements of The Johns Hopkins University (the University), which comprise the consolidated balance sheet as of June 30, 2019, the related consolidated statements of activities and cash flows for the year then ended, and the related notes to the consolidated financial statements, and have issued our report thereon dated October 22, 2019.

Internal Control Over Financial Reporting

In planning and performing our audit of the consolidated financial statements, we considered the University's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the consolidated financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

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

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the University's consolidated financial statements are free from 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*.

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Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

KPMG LLP

Baltimore, Maryland
October 22, 2019

SECTION C

KPMG LLP
750 East Pratt Street, 18th Floor
Baltimore, MD 21202

Independent Auditors' Report on Compliance for Each Major Federal Program; Report on Internal Control over Compliance; and Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

The Board of Trustees
The Johns Hopkins University:

Report on Compliance for Each Major Federal Program

We have audited The Johns Hopkins University's (the University) compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2019. The University's major federal program is identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

Management's Responsibility

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. 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 the audit requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance 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 on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on its major federal program for the year ended June 30, 2019.

Report on Internal Control over Compliance

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on its major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for its major

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federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

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

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance

We have audited the consolidated financial statements of the University as of and for the year ended June 30, 2019, and have issued our report thereon dated October 22, 2019, which contained an unmodified opinion on those consolidated financial statements. Our audit was conducted for the purpose of forming an opinion on the consolidated financial statements as a whole. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the consolidated financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the consolidated financial statements. The information has been subjected to the auditing procedures applied in the audit of the consolidated financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the consolidated financial statements or to the consolidated financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated in all material respects in relation to the consolidated financial statements as a whole.

KPMG LLP

March 12, 2020

SECTION D

THE JOHNS HOPKINS UNIVERSITY

Schedule of Findings and Questioned Costs

June 30, 2019

(1) Summary of Auditors' Results

Financial Statements

(a) Type of report issued on whether the financial statements were prepared in accordance with generally accepted accounting principles: **Unmodified**

(b) Internal control deficiencies over financial reporting disclosed by the audit of the financial statements:

- Material weaknesses: **No**
- Significant deficiencies: **None reported**

(c) Noncompliance material to financial statements noted: **No**

Federal Awards

(a) Internal control deficiencies over major programs disclosed by the audit:

- Material weaknesses: **No**
- Significant deficiencies: **None reported**

(b) Type of report issued on compliance for major programs: **Unmodified**

(c) Audit findings that are required to be reported in accordance with 2 CFR 200.516(a): **No**

Identification of Major Programs

- Research and Development Cluster: **Various CFDA numbers**

  (a) Dollar threshold used to distinguish between Type A and Type B programs: **$9,816,852**

  (b) Auditee qualified as low risk auditee: **Yes**

(2) Findings Related to the Financial Statements Reported in Accordance with *Government Auditing Standards*

None

(3) Findings and Questioned Costs Relating to Federal Awards

None