



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, 2022

THE JOHNS HOPKINS UNIVERSITY

Consolidated Financial Statements and Independent Auditors' Reports
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Year ended June 30, 2022

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SECTION A



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

Independent Auditors' Report

The Board of Trustees
The Johns Hopkins University:

Report on the Audit of the Consolidated Financial Statements

Opinion

We have audited the consolidated financial statements of The Johns Hopkins University (the University), which comprise the consolidated balance sheets as of June 30, 2022 and 2021, the related consolidated statements of activities and cash flows for the years then ended, and the related notes to the consolidated financial statements.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the financial position of the University as of June 30, 2022 and 2021, 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.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are required to be independent of the University and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with U.S. generally accepted accounting principles, and for 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.

In preparing the consolidated financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for one year after the date the consolidated financial statements are issued.

Auditors' Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and Government Auditing Standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are



considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the consolidated financial statements.

In performing an audit in accordance with GAAS and Government Auditing Standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements.
- Obtain an understanding of internal control relevant to the audit 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 University's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the consolidated financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the University's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control related matters that we identified during the audit.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated October 7, 2022 on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the University's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the University's internal control over financial reporting and compliance.

KPMG LLP

Baltimore, Maryland
October 7, 2022

THE JOHNS HOPKINS UNIVERSITY

Consolidated Balance Sheets

June 30, 2022 and 2021

(In thousands)

Assets	2022	2021
Cash and cash equivalents	\$ 770,432	571,173
Operating investments	2,284,916	2,085,455
Cash, cash equivalents and operating investments	3,055,348	2,656,628
Sponsored research accounts receivable, net	617,773	500,393
Accounts receivable, net	234,369	207,806
Contributions receivable, net	269,788	277,899
Prepaid expenses and deferred charges	58,549	52,637
Student loans receivable, net	20,599	20,967
Investments	9,218,068	10,443,599
Property and equipment, net	3,038,744	2,787,391
Operating lease right-of-use assets, net	206,464	233,864
Investment in and loans to affiliates	353,439	338,190
Other assets	366,262	375,460
Postretirement assets	161,644	118,870
Interests in trusts and endowment funds held by others	129,701	142,917
Total assets	<u>\$ 17,730,748</u>	<u>18,156,621</u>
Liabilities and Net Assets		
Accounts payable and accrued expenses	\$ 891,158	792,068
Sponsored research deferred revenues	420,765	373,847
Other deferred revenues	164,347	148,138
Debt	1,499,262	1,516,023
Operating lease liabilities	226,609	254,138
Other long-term liabilities	389,290	450,117
Pension obligations	126,924	192,125
Liabilities under split-interest agreements	66,148	84,460
Endowment and similar funds held for others	691,220	817,469
Total liabilities	<u>4,475,723</u>	<u>4,628,385</u>
Net assets:		
Without donor restrictions	4,071,530	3,897,483
With donor restrictions	9,183,495	9,630,753
Total net assets	<u>13,255,025</u>	<u>13,528,236</u>
Total liabilities and net assets	<u>\$ 17,730,748</u>	<u>18,156,621</u>

See accompanying notes to consolidated financial statements.

THE JOHNS HOPKINS UNIVERSITY

Consolidated Statements of Activities

Years ended June 30, 2022 and 2021

(In thousands)

	<u>2022</u>	<u>2021</u>
Changes in net assets without donor restrictions:		
Operating revenues:		
Tuition and fees, net of financial aid of \$491,390 and \$455,972, respectively	\$ 828,497	679,200
Grants, contracts, and similar agreements	1,653,625	1,434,639
Facilities and administrative cost recoveries	425,932	377,250
Applied Physics Laboratory contract revenues	<u>2,046,347</u>	<u>1,892,959</u>
Sponsored research revenues	<u>4,125,904</u>	<u>3,704,848</u>
Contributions	195,699	179,087
Net assets released from restrictions	<u>100,079</u>	<u>99,393</u>
Contributions and donor support	295,778	278,480
Clinical services, net	831,702	776,564
Reimbursements from affiliated institutions	683,013	623,264
Other revenues	172,739	173,414
Net endowment payout used to support operations	339,175	299,041
Auxiliary enterprises	102,952	58,609
Maryland State aid	45,795	29,034
Investment return	<u>20,840</u>	<u>36,572</u>
Total operating revenues	<u>7,446,395</u>	<u>6,659,026</u>
Operating expenses:		
Compensation	3,409,361	3,148,032
Benefits	<u>1,041,274</u>	<u>971,829</u>
Compensation and benefits	4,450,635	4,119,861
Subcontractors and subrecipients	556,753	476,537
Contractual services	1,086,938	931,809
Supplies, materials, and other	660,712	608,627
Depreciation	246,366	223,023
Travel	92,442	40,520
Interest	<u>41,632</u>	<u>46,045</u>
Total operating expenses	<u>7,135,478</u>	<u>6,446,422</u>
Excess of operating revenues over operating expenses	<u>310,917</u>	<u>212,604</u>

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Consolidated Statements of Activities

Years ended June 30, 2022 and 2021

(In thousands)

	<u>2022</u>	<u>2021</u>
Other changes in net assets without donor restrictions:		
Investment return (less than) in excess of endowment payout	\$ (287,581)	337,185
Change in benefit plans funded status, excluding benefit cost	102,248	227,516
Other net periodic benefit credit (cost)	11,102	(3,712)
Change in fair value of interest rate swap agreements	15,820	9,474
Gain on asset disposal	—	57,644
Other, net	9,046	6,431
Net assets released from restrictions	<u>12,495</u>	<u>16,411</u>
Other changes in net assets without donor restrictions	<u>(136,870)</u>	<u>650,949</u>
Total changes in net assets without donor restrictions	<u>174,047</u>	<u>863,553</u>
Changes in net assets with donor restrictions:		
Contributions	765,695	550,854
Investment return (less than) in excess of endowment payout	(1,100,380)	2,128,414
Net assets released from restrictions	(112,573)	(115,804)
Other, net	—	385
Total changes in net assets with donor restrictions	<u>(447,258)</u>	<u>2,563,849</u>
Total change in net assets	<u>(273,211)</u>	<u>3,427,402</u>
Net assets at beginning of year	<u>13,528,236</u>	<u>10,100,834</u>
Net assets at end of year	<u>\$ 13,255,025</u>	<u>13,528,236</u>

See accompanying notes to consolidated financial statements.

THE JOHNS HOPKINS UNIVERSITY
Consolidated Statements of Cash Flows
Years ended June 30, 2022 and 2021
(In thousands)

	2022	2021
Cash flows from operating activities:		
Total change in net assets	\$ (273,211)	3,427,402
Adjustments to reconcile total change in net assets to net cash provided by operating activities:		
Depreciation, amortization, and other adjustments	251,814	223,025
Noncash gift of investments	(542)	(448)
Contributions restricted for long-term investment	(493,697)	(360,895)
Net realized and unrealized losses (gains) from investments	1,100,823	(2,738,858)
Net unrealized gains from swaps	(15,820)	(9,474)
Earnings from joint ventures	(26,319)	(32,964)
Change in benefit plans' funded status	(107,975)	(233,319)
Gain on asset disposal	—	(57,644)
Changes in operating assets and liabilities:		
Sponsored research and accounts receivable, net	(143,943)	(16,834)
Contributions receivable, net	8,111	(8,210)
Prepaid expenses and deferred charges	(5,912)	(15,723)
Operating lease right-of-use assets, net of operating lease liabilities	(129)	(269)
Other assets	28,766	(4,830)
Accounts payable and accrued expenses	78,362	106,393
Sponsored research, other deferred revenues and other long-term liabilities	41,719	74,629
Interests and liabilities related to trusts and split-interest agreements	(3,589)	15,677
Net cash provided by operating activities	<u>438,458</u>	<u>367,658</u>
Cash flows from investing activities:		
Purchases of investments	(9,692,856)	(7,005,006)
Proceeds from sales and maturities of investments	9,518,473	6,869,444
Purchases of property and equipment	(482,718)	(399,634)
Prepaid lease payments	(43,167)	—
Proceeds from asset disposal	—	78,599
Repayments of student loans, net of disbursements	369	2,224
Loans to affiliates	(10,370)	(8,964)
Repayments of loans to affiliates	5,470	7,368
Dividends from joint ventures, net of capital contributions	15,970	19,751
Distributions from endowment and similar funds held for others	(27,585)	(26,115)
Net cash used in investing activities	<u>(716,414)</u>	<u>(462,333)</u>
Cash flows from financing activities:		
Contributions restricted for long-term investment	493,697	360,895
Early retirement and refinancings of debt	—	(211,169)
Scheduled debt and finance lease payments	(16,482)	(15,832)
Net cash provided by financing activities	<u>477,215</u>	<u>133,894</u>
Net increase in cash and cash equivalents	199,259	39,219
Cash and cash equivalents at beginning of year	<u>571,173</u>	<u>531,954</u>
Cash and cash equivalents at end of year	<u>\$ 770,432</u>	<u>571,173</u>

See accompanying notes to consolidated financial statements.

THE JOHNS HOPKINS UNIVERSITY
Notes to Consolidated Financial Statements
June 30, 2022 and 2021
(Dollars in thousands)

(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 32,000 students, including 17,000 full-time students and 15,000 part-time students, and on a net basis provided approximately 11% and 10% of the University's operating revenues in fiscal 2022 and fiscal 2021, respectively. Approximately 67% of the full-time students are graduate level (including postdoctoral) and 33% 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 2,300 government and private sponsors. Sponsored research revenues provided approximately 55% and 56% of the University's operating revenues in fiscal years 2022 and 2021, respectively. Approximately 88% of those revenues were from departments and agencies of the United States government in both fiscal 2022 and 2021. 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 11% and 12% of the University's operating revenues in fiscal 2022 and fiscal 2021, respectively. 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.

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Notes to Consolidated Financial Statements

June 30, 2022 and 2021

(Dollars in thousands)

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. For purposes of the consolidated statements of cash flows, 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. Cash and cash equivalents held for endowment and long-term investment purposes are classified as investments.

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(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 absolute return funds (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, 2022, the University had no plans or intentions to sell investments at amounts different from NAV. As of June 30, 2021, \$179,256 of commingled real estate funds held at amounts different from NAV, were reported in Level 3 of the fair value hierarchy and sold subsequent to that date in secondary markets.

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

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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 other changes within the statement of activities – after operating 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 or published NAV 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 assets 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

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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. As of June 30, 2022 and 2021, assets under the University's charitable gift annuity agreements were \$54,865 and \$68,321, respectively, and are classified in investments, and liabilities were \$27,751 and \$34,949, respectively, and are classified in liabilities under split-interest agreements.

(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 in 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 reported in other deferred revenues and amounted to \$113,695 and \$94,896 at June 30, 2022 and 2021, 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.

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June 30, 2022 and 2021
(Dollars in thousands)

The composition of tuition and fees, net revenue was as follows for the years ended June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Undergraduate programs	\$ 164,429	157,940
Graduate programs	610,711	473,990
Other programs	<u>53,357</u>	<u>47,270</u>
	<u>\$ 828,497</u>	<u>679,200</u>

Other programs include 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 \$420,765 in sponsored research deferred revenues as of June 30, 2022, \$353,308 relates to nonexchange transactions and \$67,457 relates to exchange transactions.

Approximately 78% and 77% of receivables related to reimbursement of costs incurred under grants and contracts as of June 30, 2022 and 2021, 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. The University estimates that conditional awards outstanding as of June 30, 2022 approximate or exceed 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 payor 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 payors. Implicit price concessions are estimated based on the historical collection experience using a portfolio approach as a practical expedient.

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(Dollars in thousands)

The composition of clinical services revenue by primary payor for the years ended June 30, 2022 and 2021 was as follows:

	<u>2022</u>		<u>2021</u>	
Commercial third parties	\$ 436,262	52.5 %	415,177	53.5 %
Medicare	165,072	19.9	156,344	20.1
Medicaid	78,311	9.4	72,992	9.4
Patients	75,216	9.0	69,447	8.9
All other clinical	76,841	9.2	62,604	8.1
	<u>\$ 831,702</u>	<u>100.0 %</u>	<u>776,564</u>	<u>100.0 %</u>

(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 \$53,803 and \$12,857 in fiscal 2022 and 2021, 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.

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(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 reported as gross claims on the consolidated balance sheets as other long-term liabilities, aggregated \$109,279 and \$114,713 as of June 30, 2022 and 2021, respectively. In addition, medical malpractice insurance recoveries of \$81,583 and \$92,202 as of June 30, 2022 and 2021, respectively, are reported on the consolidated balance sheets as other assets and the corresponding liabilities are reported as other long-term liabilities.

(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 \$13,165 and \$11,043 as of June 30, 2022 and 2021, 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 third-party and related party facilities and determines if an arrangement contains a lease at the inception of a contract. Right-of-use assets, net represents the University's right to use an underlying asset for the lease term and lease liabilities represent the University's obligation to make lease payments arising from the lease. Operating and finance lease right-of-use assets and related lease liabilities are recognized at the lease commencement date based on the present value of lease payments over the lease term discounted using an appropriate incremental borrowing rate. The incremental borrowing rate is based on the estimated interest rate for borrowing over a term similar to that of the lease payments available at commencement of the lease. The value of an option to extend a lease is reflected to the extent it is reasonably certain management will exercise that option.

Certain leases require payment for taxes, insurance, and maintenance. These variable lease payments are recognized in contractual services in the consolidated statements of activities, but are not included in the right-of-use asset or liability balances in the consolidated balance sheets.

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Operating leases are included in operating right-of-use assets, net and operating lease liabilities in the consolidated balance sheets. Finance leases are included in property and equipment, net and debt in the consolidated balance sheets. Lease expense for lease payments is recognized on a straight line basis over the lease term. Interest expense is recognized as a component of the lease payments for finance leases.

Rental income arising from operating leases as a lessor is included in operating revenue in other revenues in the consolidated statements of activities.

(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, 2022 and 2021, 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, 2022 and 2021 is \$159,293 and \$182,869, respectively.

(u) *Statement of Cash Flows Supplemental Information*

Property and equipment additions included in accounts payable and accrued expenses increased \$20,728 and \$501 as of June 30, 2022 and 2021, respectively. Noncash investing activities for the years ended June 30, 2022 and 2021 include (\$100,171) and \$190,040, respectively, attributable primarily to (decreases) increases in the fair value of endowment and similar funds held for others.

(v) *Reclassifications*

Certain 2021 amounts have been reclassified in order to conform to the 2022 presentation.

(w) *Recently Adopted Accounting Standards*

In 2022, the University adopted Financial Accounting Standards Board (FASB) Accounting Standards Update (ASU) 2018-14, *Compensation-Retirement Benefits-Defined Benefit Plans (Subtopic 715-20)*, which is effective for fiscal years ending after December 15, 2021. This ASU removes the requirement to present the impact of a one-percentage-point increase/decrease in healthcare trend assumptions and the estimated net loss and prior service cost to be amortized in the following year for retirement and defined benefit plans.

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(x) Related Parties

Members of the Board of Trustees, officers, and employees are subject to the University's conflict of interest policies, under which business and financial relationships must be disclosed and are subject to review and approval. Disclosures about the University's related party transactions, including with affiliated institutions, are described in notes 1, 11, 15 and 16 to the consolidated financial statements.

(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 largest contract is with the U.S. Navy. The obligation period for the previous contract continued until September 30, 2022. On August 22, 2022, a new contract was awarded that provides for a five-year initial term ending in September 2027, with a five-year renewal option. The initial ceiling amount is \$4,396,000 and the five-year option adds \$6,204,000 of ceiling for an aggregate purchase limit to \$10,600,000 over the ten-year contract-ordering period ending September 2032.

Approximately 69% and 73% of APL's revenues in fiscal years 2022 and 2021 were from the Department of Defense and 21% and 19% were from 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 are to be retained and used for various purposes, including, among other things, working capital, capital projects, and reserves.

APL principally provides research and development 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.

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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 \$2,013,543 and \$1,866,570 for the years ended June 30, 2022 and 2021, respectively.

Total revenue from nonexchange transactions, which are primarily grants, was \$32,804 and \$26,389 for the years ended June 30, 2022 and 2021, respectively.

(3) Accounts Receivable

Accounts receivable, net are summarized as follows as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Affiliated institutions, primarily the Hospital (note 11)	\$ 26,056	26,957
Students	47,845	30,589
Others	<u>69,893</u>	<u>65,693</u>
Total, net of allowances of \$9,576 in 2022 and \$9,767 in 2021	143,794	123,239
Receivables for clinical professional fees, net of explicit and implicit price concessions of \$196,075 in 2022 and \$179,290 in 2021	<u>90,575</u>	<u>84,567</u>
	<u>\$ 234,369</u>	<u>207,806</u>

The mix of gross accounts receivable for clinical professional fees from patients and third-party payors consisted of the following as of June 30, 2022 and 2021: commercial third parties 47% for both 2022 and 2021; Medicare 21% and 22%, respectively; Medicaid 13% and 15%, respectively; and patients 19% and 16%, respectively.

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(4) Contributions Receivable

Contributions receivable, net are summarized as follows as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Unconditional promises scheduled to be collected in:		
Less than one year	\$ 84,233	65,350
One year to five years	159,762	166,444
Over five years	<u>47,275</u>	<u>67,525</u>
	291,270	299,319
Less unamortized discount (interest rates ranging from 1.76% to 3.00%) and allowances for uncollectible contributions	<u>21,482</u>	<u>21,420</u>
	<u>\$ 269,788</u>	<u>277,899</u>

As of June 30, 2022 and 2021, 52% and 58%, respectively, of the gross contributions receivable were due from ten donors. Approximately 68% of contribution revenues in both fiscal 2022 and 2021 were from ten donors. As of June 30, 2022, the University had also been informed of bequest intentions and conditional promises to give aggregating in excess of \$1,153,000, which have not been recognized as assets or revenues. Such 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.

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Investments are summarized as follows as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Operating investments	\$ 2,284,916	2,085,455
Investments	<u>9,218,068</u>	<u>10,443,599</u>
	<u>\$ 11,502,984</u>	<u>12,529,054</u>
Cash and cash equivalents	\$ 381,017	192,347
United States government and agency obligations	2,080,853	2,208,007
Debt securities	839,162	439,360
United States equities	1,458,990	2,495,743
International equities	939,428	1,311,387
Private equity and venture capital	2,241,229	2,361,273
Real estate	412,530	595,081
Natural resources	626,658	527,955
Absolute return	<u>2,523,117</u>	<u>2,397,901</u>
	<u>\$ 11,502,984</u>	<u>12,529,054</u>

Investments includes \$402,942 of positions sold or redeemed as of June 30, 2022 but settled in cash subsequent to the fiscal year-end. These investments are primarily included in U.S. equities, international equities and absolute return.

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The following table summarizes the University's investments as of June 30, 2022 and 2021 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
	2022	2021	2022	2021	2022	2022
United States equities	\$ 1,045,180	1,548,279	38,840	19,021	2% Monthly 26% Quarterly 17% Annually	0 to 150 days
International equities	751,295	1,093,086	—	—	55% 2- to 5-Year 31% Monthly 26% Quarterly 16% Annually 27% 3- to 5-Year	6 to 365 days
Private equity and venture capital	2,184,392	2,303,213	1,008,032	837,399	N/A	N/A
Real estate	317,982	316,279	79,404	198,578	N/A	N/A
Natural resources	587,795	493,874	67,145	79,764	N/A	N/A
Absolute return	2,523,117	2,397,901	623,639	187,125	See chart below	25 to 120 days ⁽¹⁾
	<u>\$ 7,409,761</u>	<u>8,152,632</u>	<u>1,817,060</u>	<u>1,321,887</u>		

⁽¹⁾ Investments liquidated through draw downs total \$280,851 and \$342,355 as of June 30, 2022 and 2021, 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.

Absolute return funds, excluding drawdown funds, have the following redemption periods as of June 30, 2022 and 2021:

	2022	2021
Quarterly redemptions	\$ 593,186	496,183
Annual redemptions	255,519	421,581
Quarterly or annually over 1- to 3-year period	1,252,700	1,034,617
Rolling 3- to 5-year redemptions	140,861	103,165
	<u>\$ 2,242,266</u>	<u>2,055,546</u>

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

(a) United States Equities

This includes interests in commingled funds that invest primarily in publicly traded common stock of domestic companies. Funds offer redemptions monthly, quarterly, annually, or over the course of 2 to 5 years, with various notice requirements ranging from 0 to 150 days.

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(b) International Equities

This includes interests in commingled funds that invest primarily in publicly traded common stock of developed and emerging market companies. Funds offer redemptions monthly, quarterly, or annually, or over the course of 3 to 5 years, with various notice requirements typically ranging from 6 to 365 days.

(c) Private Equity and Venture Capital

This includes interests in funds making investments in leveraged buyouts of both public and private companies, as well as venture capital and growth-stage investments in private companies. These investments primarily 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.

(d) Real Estate

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

(e) Natural Resources

This includes interests in funds making investments in oil and gas, timber, agriculture, minerals, and other commodities. These investments primarily 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.

(f) Absolute Return

This includes interests in hedge funds, drawdown funds that implement strategies classified as long/short equity, credit and distressed debt, relative value, event-driven, or multi-strategy. Hedge funds structures have various redemption periods as summarized in the table above, with notice requirements ranging from 25 to 120 days. Drawdown funds are primarily organized as limited partnerships where distributions are made to investors through the liquidation of the underlying assets. It is expected to take up to 15 years to fully distribute these assets.

Investment return is classified in the consolidated statements of activities as follows for the years ended June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Without donor restrictions:		
Operating, including endowment payout	\$ 360,015	335,613
Nonoperating	(287,581)	337,185
With donor restrictions	<u>(1,100,380)</u>	<u>2,128,414</u>
	<u>\$ (1,027,946)</u>	<u>2,801,212</u>

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(6) Fair Value Measurements

The following table presents investments that are measured at fair value on a recurring basis as of June 30, 2022:

	Fair value as of June 30, 2022	Level 1	Level 2	Level 3	Funds at NAV
Operating investments:					
United States government and agency obligations	\$ 1,872,272	1,872,272	—	—	—
Debt securities	412,644	170,862	241,782	—	—
Total operating investments	<u>2,284,916</u>	<u>2,043,134</u>	<u>241,782</u>	<u>—</u>	<u>—</u>
Investments, at fair value:					
Cash and cash equivalents	381,017	381,017	—	—	—
United States government and agency obligations	208,581	207,458	1,123	—	—
Debt securities	426,518	426,518	—	—	—
United States equities	1,458,990	412,083	1,727	—	1,045,180
International equities	939,428	188,133	—	—	751,295
Private equity and venture capital	2,241,229	882	—	55,955	2,184,392
Real estate	412,530	18,848	—	75,700	317,982
Natural resources	626,658	—	—	38,863	587,795
Absolute return	2,523,117	—	—	—	2,523,117
Total investments, at fair value	<u>9,218,068</u>	<u>1,634,939</u>	<u>2,850</u>	<u>170,518</u>	<u>7,409,761</u>
Total investments	<u>\$ 11,502,984</u>	<u>3,678,073</u>	<u>244,632</u>	<u>170,518</u>	<u>7,409,761</u>

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The following table presents investments that are measured at fair value on a recurring basis as of June 30, 2021:

	Fair value as of June 30, 2021	Level 1	Level 2	Level 3	Funds at NAV
Operating investments:					
United States government and agency obligations	\$ 1,670,897	1,670,897	—	—	—
Debt securities	<u>414,558</u>	<u>196,042</u>	<u>218,516</u>	<u>—</u>	<u>—</u>
Total operating investments	<u>2,085,455</u>	<u>1,866,939</u>	<u>218,516</u>	<u>—</u>	<u>—</u>
Investments, at fair value:					
Cash and cash equivalents	192,347	192,347	—	—	—
United States government and agency obligations	537,110	511,619	25,491	—	—
Debt securities	24,802	24,202	—	600	—
United States equities	2,495,743	945,398	1,726	340	1,548,279
International equities	1,311,387	218,301	—	—	1,093,086
Private equity and venture capital	2,361,273	2,647	—	55,413	2,303,213
Real estate	595,081	23,846	—	254,956	316,279
Natural resources	527,955	—	—	34,081	493,874
Absolute return	<u>2,397,901</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>2,397,901</u>
Total investments, at fair value	<u>10,443,599</u>	<u>1,918,360</u>	<u>27,217</u>	<u>345,390</u>	<u>8,152,632</u>
Total investments	<u>\$ 12,529,054</u>	<u>3,785,299</u>	<u>245,733</u>	<u>345,390</u>	<u>8,152,632</u>

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

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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, 2022 and 2021:

	Debt securities	U.S. equities	Private equity and venture capital	Real estate	Natural resources	Total
Balance as of June 30, 2020	\$ 3,240	332	43,732	78,300	25,937	151,541
Transfers between levels	—	—	(9,114)	179,256	—	170,142
Net realized and unrealized gain (loss)	108	—	13,392	(2,600)	8,458	19,358
Sales and distributions	(3,202)	—	(8,319)	—	(993)	(12,514)
Purchases and contributions	454	8	15,722	—	679	16,863
Balance as of June 30, 2021	600	340	55,413	254,956	34,081	345,390
Transfers between levels	—	—	2,468	—	—	2,468
Net realized and unrealized gain (loss)	—	7,967	3,261	(609)	8,859	19,478
Sales and distributions	(600)	(71,848)	(10,930)	(191,972)	(4,668)	(280,018)
Purchases and contributions	—	63,541	5,743	13,325	591	83,200
Balance as of June 30, 2022	\$ —	—	55,955	75,700	38,863	170,518

For the year ended June 30, 2022, private equity assets totaling \$1,357 moved from Level 3 to Level 1 due to public market events, while private equity assets totaling \$3,825 moved from NAV to Level 3. For the year ended June 30, 2021, private equity assets totaling \$9,114 moved from Level 3 to Level 1 due to public market events, and real estate assets totaling \$179,256 moved from NAV to Level 3 due to a pending secondary sale.

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(7) Property and Equipment

Property and equipment, net, are summarized as follows as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>	<u>Range of useful lives</u>
Land	\$ 130,717	110,395	N/A
Land improvements	118,857	116,916	15 years
Buildings and leasehold improvements	4,072,432	3,931,332	10–40 years
Equipment	1,209,787	1,176,977	7–15 years
Capitalized software costs	137,548	135,570	3–10 years
Library collections	398,941	381,555	25 years
Construction in progress	756,366	544,914	N/A
	<u>6,824,648</u>	<u>6,397,659</u>	
Less accumulated depreciation and amortization	<u>3,785,904</u>	<u>3,610,268</u>	
	<u>\$ 3,038,744</u>	<u>2,787,391</u>	

(8) Debt

Debt is summarized as follows as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Bonds payable, net	\$ 1,114,246	1,123,121
Notes payable – taxable	265,684	268,511
Commercial paper revenue notes – taxable	70,000	70,000
Finance lease obligations (note 15)	49,332	54,391
	<u>\$ 1,499,262</u>	<u>1,516,023</u>

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(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, 2022 and 2021:

	2022	2021
Revenue Bonds Series 2005A, variable effective rate (0.89%), due July 2036	\$ 69,265	69,265
Taxable Bonds 2013 Series A, 4.08%, due through July 2053	355,000	355,000
Revenue Bonds Series 2013B, 4.25% to 5.00%, due through July 2041	73,845	82,440
Taxable Bonds 2015 Series A, 3.75%, due through July 2045	150,000	150,000
Taxable Bonds 2020 Series A, 1.97% to 2.81%, due through January 2060	470,000	470,000
Subtotal	1,118,110	1,126,705
Premium and discount, net	1,272	1,735
Debt issuance cost, net	(5,136)	(5,319)
	\$ 1,114,246	1,123,121

The bonds payable outstanding as of June 30, 2022 and 2021 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, 2022 and 2021:

	2022	2021
Note, 2.74%, due November 2023	\$ 25,000	25,000
Note, 2.89%, due November 2024	20,945	22,000
Note, 2.90%, due November 2024	21,689	22,456
Note, 2.94%, due November 2027	25,000	25,000
Note, 3.83%, due October 2028	25,000	25,000
Note, 3.92%, due November 2028	48,050	49,055
Notes, 4.16%, due May 2048	50,000	50,000
Note, 4.50%, due November 2049	50,000	50,000
	\$ 265,684	268,511

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

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(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 taxable notes outstanding as of June 30, 2022 bear interest at a weighted average rate of 1.75%.

(d) Other Credit Agreements

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

<u>Amount</u>	<u>Maturity</u>	<u>Purpose</u>
\$ 100,000	March 2023	Revolving line of credit
100,000	September 2023	Standby liquidity agreement
50,000	December 2025	Standby liquidity agreement
100,000	March 2023	Line of credit
50,000	September 2023	Line of credit
50,000	July 2025	Line of credit

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 on the revolving line of credit as of June 30, 2022 and 2021.

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, in the event they are unable to be 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 2022 and 2021. The University also has three lines of credit available for liquidity purposes.

(e) 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.

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The following table summarizes the general terms of the University's fixed payor swap agreements as of June 30, 2022:

<u>Effective date</u>	<u>Notional amount</u>	<u>Termination date</u>	<u>Interest rate paid</u>	<u>Interest rate received</u>
June 2005	\$ 69,265	July 2036	3.87 %	SIFMA, 0.98% as of June 30, 2022
July 2007	5,245	July 2027	3.45	67% of 1-month LIBOR, 1.12% as of June 30, 2022
Total	<u>\$ 74,510</u>			

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, 2022 and 2021 was a liability of \$9,595 and \$25,415, 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 gain of \$15,820 and \$9,474 in fiscal 2022 and 2021, respectively.

The University is required to post collateral under these agreements when certain thresholds are exceeded. As of June 30, 2022 and 2021, the required collateral was \$0 and \$800, respectively, which is included in cash and cash equivalents.

(f) Annual Principal Payments

The following table summarizes the aggregate annual maturities of bonds payable, notes payable, as well as taxable commercial paper, for the five fiscal years subsequent to June 30, 2022:

	<u>Bonds payable</u>	<u>Notes payable</u>	<u>Commercial paper notes</u>	<u>Total</u>
2023	\$ 8,595	3,759	—	12,354
2024	—	30,567	—	30,567
2025	—	43,093	—	43,093
2026	—	4,280	—	4,280
2027	—	4,380	—	4,380
Thereafter	<u>1,109,515</u>	<u>179,605</u>	<u>70,000</u>	<u>1,359,120</u>
	<u>\$ 1,118,110</u>	<u>265,684</u>	<u>70,000</u>	<u>1,453,794</u>

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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.

(g) Interest Costs

Total interest costs incurred and paid were \$52,361 in 2022 and \$54,431 in 2021, of which \$10,810 in 2022 and \$7,775 in 2021 were capitalized.

(9) Net Assets

Net assets without donor restrictions consists of the following as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Net investment in plant	\$ 1,539,481	1,271,368
Board-designated endowments	1,170,661	1,326,013
Undesignated	<u>1,361,388</u>	<u>1,300,102</u>
	<u>\$ 4,071,530</u>	<u>3,897,483</u>

Net assets with donor restrictions consists of the following as of June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Donor-restricted endowment funds	\$ 7,073,811	7,989,266
Contributions receivable for endowment	69,612	66,095
Contributions receivable for operating	180,661	186,147
Contributions restricted for facilities	942,260	667,087
Land subject to time and purpose restrictions	27,700	27,700
Perpetual trusts for scholarship and program support	73,889	81,652
Other contributions, including annuities and other trusts	<u>815,562</u>	<u>612,806</u>
	<u>\$ 9,183,495</u>	<u>9,630,753</u>

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 4,600 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.

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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, 2022:

	<u>Without donor restrictions</u>	<u>With donor restrictions</u>	<u>Total</u>
Investments by type of fund:			
Donor-restricted endowments:			
Historical gift value	\$ —	5,392,848	5,392,848
Appreciation	—	1,680,963	1,680,963
Board-designated endowments	<u>1,170,661</u>	<u>—</u>	<u>1,170,661</u>
Total endowment net assets	<u>\$ 1,170,661</u>	<u>7,073,811</u>	<u>8,244,472</u>

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Endowment net assets consist of the following as of June 30, 2021:

	<u>Without donor restrictions</u>	<u>With donor restrictions</u>	<u>Total</u>
Investments by type of fund:			
Donor-restricted endowments:			
Historical gift value	\$ —	5,209,616	5,209,616
Appreciation	—	2,779,650	2,779,650
Board-designated endowments	<u>1,326,013</u>	<u>—</u>	<u>1,326,013</u>
Total endowment net assets	<u>\$ 1,326,013</u>	<u>7,989,266</u>	<u>9,315,279</u>

As of June 30, 2022, donor-restricted endowments with an original gift value of \$372,203 were underwater by \$25,891. As of June 30, 2021, there were no underwater donor-restricted endowments. 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, 2022 and 2021 are as follows:

	<u>Without donor restrictions</u>	<u>With donor restrictions</u>	<u>Total</u>
Endowment net assets, June 30, 2020	\$ 969,640	5,780,452	6,750,092
Investment return	365,314	2,328,256	2,693,570
Contributions and designations	40,121	176,151	216,272
Appropriation for expenditure	<u>(49,062)</u>	<u>(295,593)</u>	<u>(344,655)</u>
Endowment net assets, June 30, 2021	1,326,013	7,989,266	9,315,279
Investment return	(169,288)	(793,896)	(963,184)
Contributions and designations	66,612	189,425	256,037
Appropriation for expenditure	<u>(52,676)</u>	<u>(310,984)</u>	<u>(363,660)</u>
Endowment net assets, June 30, 2022	<u>\$ 1,170,661</u>	<u>7,073,811</u>	<u>8,244,472</u>

Appropriation for expenditure with donor restrictions for the years ended June 30, 2022 and 2021 includes \$24,485 and \$45,614, respectively, not used in current year operations but which is intended for future use.

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Endowments are to be utilized for the following purposes as of June 30, 2022:

	<u>Without donor restrictions</u>	<u>With donor restrictions</u>	<u>Total</u>
Faculty support	\$ 332,414	2,522,654	2,855,068
Scholarship support	206,609	3,285,610	3,492,219
Program support	484,108	617,016	1,101,124
Research	147,530	648,531	796,061
	<u>\$ 1,170,661</u>	<u>7,073,811</u>	<u>8,244,472</u>

Endowments are to be utilized for the following purposes as of June 30, 2021:

	<u>Without donor restrictions</u>	<u>With donor restrictions</u>	<u>Total</u>
Faculty support	\$ 388,507	2,896,835	3,285,342
Scholarship support	222,720	3,657,018	3,879,738
Program support	538,866	687,977	1,226,843
Research	175,920	747,436	923,356
	<u>\$ 1,326,013</u>	<u>7,989,266</u>	<u>9,315,279</u>

(11) Affiliated Institutions

Reimbursements from affiliated institutions consist of the following for the years ended June 30, 2022 and 2021:

	<u>2022</u>	<u>2021</u>
Johns Hopkins Health System	\$ 58,852	42,757
Johns Hopkins Hospital	335,935	328,014
Johns Hopkins Bayview Medical Center	91,499	89,995
Other Johns Hopkins entities	147,625	135,474
Other affiliated medical institutions	49,102	27,024
	<u>\$ 683,013</u>	<u>623,264</u>

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(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 contractual services for clinical and nonclinical operations.

In fiscal 2021, JHHS provided an unconditional pledge of \$66,000 to support the recruitment of clinical faculty at the School of Medicine, which was reported in the consolidated statement of activities as contributions in changes in net assets with donor restrictions.

(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 \$269,373 in fiscal 2022 and \$249,894 in fiscal 2021. Charges to the University under the JAA, related primarily to contractual services, aggregated \$51,810 in fiscal 2022 and \$49,523 in fiscal 2021, 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 \$83,901 in fiscal 2022 and \$81,321 in fiscal 2021.

(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 \$557,033 and \$661,513 is included in endowment and similar funds held for others as of June 30, 2022 and 2021, respectively. The

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corresponding liability has a fair value measurement of Level 3. JHHEFI's assets represent approximately 9.1% of the combined investment pool of \$6,133,792 as of June 30, 2022.

(e) Jointly Owned Entities

As of June 30, 2022 and 2021, 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 \$347,138 and \$331,372 as of June 30, 2022 and 2021, respectively. Equity in operating earnings of affiliates aggregated approximately \$30,866 in fiscal 2022 and \$34,905 in fiscal 2021.

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 2022 and 2021 were \$31,571 and \$30,331, respectively. JHMI Utilities LLC has an agreement with the University to finance a portion of the costs of installation of, and subsequent upgrades to, an enterprise information technology system that provides integrated patient care information and service across JHM. The project has been successfully implemented with the total project cost at approximately \$321,400 as of June 30, 2022. 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 committed to funding up to \$36,800 of the project. As of June 30, 2022 and 2021, \$10,300 and \$13,900, respectively, was outstanding on the loan. In addition, the University has agreed to guarantee a pooled loan of up to \$8,500.

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, 2022 and 2021, respectively:

	2022		2021	
	Total	University interest	Total	University interest
Assets	\$ 1,390,647	589,464	1,462,386	633,501
Liabilities	783,412	332,329	896,022	387,233
Operating revenues	3,340,454	1,339,182	3,204,539	1,252,074
Operating expenses	3,256,458	1,308,316	3,110,871	1,217,169

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(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 qualified 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 \$283,992 in fiscal 2022 and \$280,725 in fiscal 2021, including \$265,859 and \$246,002, respectively, related to defined contribution plans. Of the total benefit expense, APL's defined contribution plan accounted for \$102,214 in fiscal 2022 and \$96,343 in fiscal 2021.

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. In fiscal year 2022, the University completed an experience study to review the assumptions used to calculate the benefit obligation of the pension and postretirement plans. The study resulted in a revision to some assumptions and gains.

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

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plan and the postretirement benefit plans as of and for the years ended June 30, 2022 and 2021 is summarized as follows:

	<u>Pension plan</u>		<u>Postretirement plans</u>	
	<u>2022</u>	<u>2021</u>	<u>2022</u>	<u>2021</u>
Change in benefit obligation:				
Benefit obligation at beginning of year	\$ 923,248	911,200	282,555	296,750
Service cost	15,344	17,125	8,613	8,949
Interest cost	24,771	24,035	7,087	7,122
Participant contributions	—	—	11,983	11,634
Plan amendment	—	5,949	—	—
Actuarial gain	(208,022)	(9,821)	(128,909)	(23,177)
Benefits paid	(27,931)	(25,240)	(24,130)	(19,437)
Medicare subsidies received	—	—	654	714
Benefit obligation at end of year	<u>727,410</u>	<u>923,248</u>	<u>157,853</u>	<u>282,555</u>
Change in plan assets:				
Fair value of plan assets at beginning of year	731,123	580,628	401,425	320,748
Actual return on plan assets	(119,849)	140,675	(71,873)	90,454
University contributions	17,143	35,060	—	—
Participant contributions	—	—	13,421	12,163
Benefits paid	(27,931)	(25,240)	(24,130)	(22,654)
Medicare subsidies received	—	—	654	714
Fair value of plan assets at end of year	<u>600,486</u>	<u>731,123</u>	<u>319,497</u>	<u>401,425</u>
Funded status recognized as (pension obligation) and postretirement asset, net	<u>\$ (126,924)</u>	<u>(192,125)</u>	<u>161,644</u>	<u>118,870</u>

The accumulated benefit obligation for the pension plan was \$707,909 and \$895,143 as of June 30, 2022 and 2021, respectively.

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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, 2022 and 2021:

	<u>Pension plan</u>		<u>Postretirement plans</u>	
	<u>2022</u>	<u>2021</u>	<u>2022</u>	<u>2021</u>
Operating:				
Service cost	\$ 15,344	17,125	8,613	8,949
Total operating, included in benefits expense	<u>15,344</u>	<u>17,125</u>	<u>8,613</u>	<u>8,949</u>
Nonoperating:				
Interest cost on accumulated benefit obligation	24,771	24,035	7,087	7,122
Amortization of prior service cost (credit)	531	(167)	505	505
Expected return on plan assets	(33,601)	(33,151)	(15,914)	(21,975)
Amortization of actuarial loss (gain)	<u>10,098</u>	<u>27,219</u>	<u>(4,579)</u>	<u>124</u>
Total nonoperating	<u>1,799</u>	<u>17,936</u>	<u>(12,901)</u>	<u>(14,224)</u>
Total net pension and postretirement benefit cost (credit)	<u>\$ 17,143</u>	<u>35,061</u>	<u>(4,288)</u>	<u>(5,275)</u>

The table below reflects the changes in plan assets, pension obligations, and postretirement assets recognized as nonoperating items for the years ended June 30, 2022 and 2021:

	<u>Pension plan</u>		<u>Postretirement plans</u>	
	<u>2022</u>	<u>2021</u>	<u>2022</u>	<u>2021</u>
New prior service cost	\$ —	5,949	—	—
Net (gain) for the year	(54,572)	(117,346)	(41,121)	(88,438)
Amortization of prior service (cost) credit	(531)	167	(505)	(505)
Amortization of net (gain) loss	<u>(10,098)</u>	<u>(27,219)</u>	<u>4,579</u>	<u>(124)</u>
Net (gain) recognized in nonoperating activities	<u>\$ (65,201)</u>	<u>(138,449)</u>	<u>(37,047)</u>	<u>(89,067)</u>

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

	<u>Pension plan</u>		<u>Postretirement plans</u>	
	<u>2022</u>	<u>2021</u>	<u>2022</u>	<u>2021</u>
Weighted average assumptions used to determine benefit obligations at June 30:				
Discount rate	4.61 %	2.72 %	4.57%–4.60%	2.60%–2.79%
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	5.80	5.90
Weighted average assumptions used to determine net periodic benefit cost:				
Discount rate	2.72 %	2.66 %	2.60%–2.79%	2.54%–2.73%
Expected rate of return on plan assets	5.50	6.75	4.00	7.00
Rate of compensation increase	2.90	2.90	N/A	N/A
Rate of increase in healthcare costs	N/A	N/A	6.00	6.10

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 6.0% in 2022 and decrease to 4.0% in 2044 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) 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.

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(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, 2022 and 2021:

	2022			2021		
	Total	Level 1	Funds at NAV	Total	Level 1	Funds at NAV
Cash and cash equivalents \$	928	928	—	1,987	1,987	—
Fixed income securities	209,667	203,869	5,798	234,582	227,485	7,097
United States equities and international equities	283,296	251,051	32,245	462,958	413,376	49,582
Absolute return	106,595	—	106,595	31,596	—	31,596
Total	\$ 600,486	455,848	144,638	731,123	642,848	88,275

(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, 2022 and 2021:

	2022			2021		
	Total	Level 1	Funds at NAV	Total	Level 1	Funds at NAV
Cash and cash equivalents \$	5,062	5,062	—	5,435	5,435	—
Fixed income securities	227,265	227,265	—	303,993	303,993	—
United States equities and international equities	36,630	19,355	17,275	73,114	46,555	26,559
Absolute return	50,540	—	50,540	18,883	—	18,883
Total	\$ 319,497	251,682	67,815	401,425	355,983	45,442

The Plans have no unfunded commitments to fund managers as of June 30, 2022 and 2021.

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The University's target asset allocations for the pension plan and the postretirement plans as of June 30, 2022 and 2021:

	Pension plan		Postretirement plans	
	2022	2021	2022	2021
Fixed income securities	30 %	30 %	75 %	75 %
United States equities and international equities	60	60	15	15
Absolute return	10	10	10	10
Total	100 %	100 %	100 %	100 %

(d) Cash Flows

The University expects to contribute \$20,300 to the pension plan in fiscal 2023.

Employer benefits expected to be paid, net of expected retiree contributions, to be received in the five years subsequent to June 30, 2022 and in aggregate for the five fiscal years thereafter are as follows:

	Pension plan	Postretirement plans
2023	\$ 32,183	10,935
2024	34,060	10,794
2025	35,842	10,894
2026	37,752	10,960
2027	39,602	11,037
2028–2032	221,282	55,589

There are no Medicare subsidies to be received in future years.

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(13) Functional Expense Information

Operating expenses by nature and function are summarized as follows for the year ended June 30, 2022:

	2022 Programs							
	Instruction, research and clinical practice	APL	Student services	Auxiliaries	Libraries	Total Programs	Institutional support	Total expenses
Compensation	\$ 2,085,964	957,709	70,907	21,001	14,449	3,150,030	259,331	3,409,361
Benefits	514,731	421,713	19,837	5,838	4,113	966,232	75,042	1,041,274
Subcontractors and subrecipients	349,070	207,683	—	—	—	556,753	—	556,753
Contractual services	677,248	92,523	69,762	52,257	9,831	901,621	185,317	1,086,938
Supplies, materials and other	402,914	169,960	2,974	29,251	7,908	613,007	47,705	660,712
Depreciation	95,027	86,252	4,402	8,288	17,931	211,900	34,466	246,366
Travel	68,759	17,316	2,531	226	215	89,047	3,395	92,442
Interest	27,923	—	1,063	2,805	657	32,448	9,184	41,632
Total	<u>\$ 4,221,636</u>	<u>1,953,156</u>	<u>171,476</u>	<u>119,666</u>	<u>55,104</u>	<u>6,521,038</u>	<u>614,440</u>	<u>7,135,478</u>

Operating expenses by nature and function are summarized as follows for the year ended June 30, 2021:

	2021 Programs							
	Instruction, research and clinical practice	APL	Student services	Auxiliaries	Libraries	Total Programs	Institutional support	Total expenses
Compensation	\$ 1,902,975	909,166	62,304	18,252	13,729	2,906,426	241,606	3,148,032
Benefits	465,153	396,676	18,442	5,050	3,818	889,139	82,690	971,829
Subcontractors and subrecipients	279,958	196,579	—	—	—	476,537	—	476,537
Contractual services	602,466	74,222	49,763	34,114	7,192	767,757	164,052	931,809
Supplies, materials and other	364,715	164,956	7,524	28,190	8,093	573,478	35,149	608,627
Depreciation	93,210	66,602	4,302	8,066	17,173	189,353	33,670	223,023
Travel	32,539	6,741	608	26	22	39,936	584	40,520
Interest	30,919	—	1,193	3,036	746	35,894	10,151	46,045
Total	<u>\$ 3,771,935</u>	<u>1,814,942</u>	<u>144,136</u>	<u>96,734</u>	<u>50,773</u>	<u>5,878,520</u>	<u>567,902</u>	<u>6,446,422</u>

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 cost (credit) recorded in nonoperating expense was (\$11,102) and \$3,712 for the years ended June 30, 2022 and 2021, respectively.

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Notes to Consolidated Financial Statements
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(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, the following assets could readily be available within one year to meet general expenditures:

	<u>2022</u>	<u>2021</u>
Cash and cash equivalents	\$ 747,526	545,452
Operating investments, net of expected board designated transfers to endowment	421,522	1,134,652
Sponsored research accounts receivable, net	617,773	500,393
Accounts receivable, net	234,369	207,806
Contributions receivable, net	35,056	34,336
Expected endowment payout for upcoming fiscal year	434,300	365,430
Investments in and loans to affiliates	7,209	5,511
Payout from interests in trusts and endowment funds held for others	<u>4,406</u>	<u>4,469</u>
Financial assets available to meet general expenditures over the next year	<u>\$ 2,502,161</u>	<u>2,798,049</u>

The University has various sources of liquidity at its disposal, including cash and cash equivalents, marketable debt securities, lines of credit, 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) Leases

The University leases facilities used in its academic and research operations under long-term operating and finance leases, including certain facilities from the Hospital under a renewable one year lease. This lease provides for a rent equal to the cost to the Hospital for maintaining the facilities and has been renewed for the year ending June 30, 2023.

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For the years ended June 30, 2022 and 2021, the components of lease expense are as follows:

	<u>2022</u>	<u>2021</u>
Lease cost:		
Finance lease expense:		
Amortization of right-of-use assets	\$ 4,452	4,452
Interest on lease obligations	3,225	3,528
Operating lease expense	53,999	53,493
Variable lease expense	47,748	46,135
Short-term lease expense	4,554	4,797
Total lease expense	<u>\$ 113,978</u>	<u>112,405</u>
Other information:		
Operating lease right-of-use assets obtained in exchange for new operating lease liabilities	\$ 20,873	53,826
Weighted-average remaining lease term:		
Finance leases	6.77 yrs.	7.75 yrs.
Operating leases	6.60 yrs.	7.03 yrs.
Weighted-average discount rate:		
Finance leases	6.38 %	6.45 %
Operating leases	2.38	2.38

Payments due include options, where reasonably certain, to extend operating leases through fiscal year 2107 and are summarized below as of June 30, 2022:

	<u>Affiliates</u>	<u>Others</u>	<u>Total</u>
2023	\$ 11,270	38,263	49,533
2024	9,060	37,758	46,818
2025	7,590	28,308	35,898
2026	5,838	21,741	27,579
2027	3,419	18,047	21,466
After 2027	5,380	60,098	65,478
	<u>42,557</u>	<u>204,215</u>	<u>246,772</u>
Less amounts representing interest	<u>3,087</u>	<u>17,076</u>	<u>20,163</u>
Total operating lease liabilities	<u>\$ 39,470</u>	<u>187,139</u>	<u>226,609</u>

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Payments due for finance leases through fiscal year 2031 are summarized below as of June 30, 2022:

2023	\$	8,524
2024		8,772
2025		9,027
2026		9,289
2027		9,559
After 2027		<u>14,941</u>
		60,112
Less amounts representing interest		<u>10,780</u>
Total finance lease liabilities	\$	<u><u>49,332</u></u>

As of June 30, 2022, the gross amount of finance right of use assets and accumulated depreciation thereon are reflected in property and equipment and amounted to \$77,559 and \$46,906, respectively.

The following presents supplemental cash flow information for the year ended June 30, 2022 and 2021 as it relates to cash paid for amounts included in the measurement of lease liabilities:

	<u>2022</u>	<u>2021</u>
Operating cash flows for operating leases	\$ 53,851	52,171
Operating cash flows for finance leases	5,059	4,521
Financing cash flows for finance leases	3,225	3,528

In June 2021, the University signed a 40-year lease agreement with the Hospital for approximately 65% of the space in a research facility scheduled to be completed by the end of 2025. The first of three wings in the facility is expected to be available for use before the end of fiscal 2024. The University will be responsible for approximately 65% of the total core and shell costs, which are estimated to range from \$300,000 to \$320,000, and will fund its share of these costs as prepayments under the lease on a monthly basis during the construction and renovation period. In addition, the University will fund its own tenant improvements during this period. In 2022, the University made prepayments on the lease of \$43,167, which are included in other assets as of June 30, 2022.

THE JOHNS HOPKINS UNIVERSITY
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(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, 2022, the University's guarantee amounted to \$8,500 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

On April 1, 2015, a complaint was filed against the University, its Bloomberg School of Public Health and its School of Medicine, JHHSC and JHH (collectively the "Johns Hopkins Defendants"), as well as another academic institution and a pharmaceutical company (collectively the "defendants"). The claims in the litigation arise from human experiments conducted in Guatemala between 1946 and 1948 (the "Study") under the auspices of the United States Public Health Service, the Guatemalan government, and the Pan American Sanitary Bureau. After a seven-year period of protracted litigation, on April 18, 2022, the U.S. District Court in the District of Maryland granted the Defendants' Motion for Summary Judgment in full. The plaintiffs in the case did not appeal that ruling with respect to the Johns Hopkins Defendants, and the Johns Hopkins Defendants were dismissed from the case on August 3, 2022.

(17) Subsequent Events

The University evaluated subsequent events through October 7, 2022, 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.

SECTION B

THE JOHNS HOPKINS UNIVERSITY
Schedule of Expenditures of Federal Awards
Year ended June 30, 2022

Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing 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 Commerce:				
University Corporation for Atmospheric Research: Hydrologic Research	11.462	SUBAWD002912	\$ —	108,179
Measurement and Engineering Research and Standards	11.609	Direct	—	34,134
Department Commerce	11.UNKNOW	Direct	—	1,451,763
Department of Commerce Total – APL			—	1,594,076
Department of Defense:				
Basic and Applied Scientific Research	12.300	Direct	156,865	2,260,313
George Mason University	12.300	E2044951	—	42,250
Subtotal			156,865	2,302,563
Military Medical Research and Development	12.420	Direct	—	43,642
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.420	5792	—	105,904
University of Pittsburgh	12.420	0055367 (413528-1)	—	3,286
Subtotal			—	152,832
Basic Scientific Research	12.431	Direct	80,098	192,149
Duke University	12.431	313-0835	17,273	161,194
Subtotal			97,371	353,343
Basic, Applied, and Advanced Research in Science and Engineering	12.630	Direct	113,054	254,627
Uniformed Services University Medical Research Projects	12.750	Direct	—	629,981
Geneva Foundation	12.750	S-11122-01	—	29,977
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	5016	—	15,811
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	5019	—	17,067
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	5508	261,148	223,640
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	5509	—	17,432
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	5783	—	220,395
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	5827	—	38,956
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	3767/908044	—	302
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	4651/950134	—	79
Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.	12.750	4814/962460	—	186
Subtotal			261,148	1,193,826
Air Force Defense Research Sciences Program	12.800	Direct	—	669,826
University of Colorado	12.800	1561406	—	17,024
University of Texas	12.800	26-0201-51-62	—	109,528
Subtotal			—	796,378
Department of Defense	12.UNKNOW	Direct	93,020,901	1,409,853,210
Arnold Engineering Development Complex	12.UNKNOW	FA9101-05-D-0001	—	(1,998)
Artemis Inc.	12.UNKNOW	ARTEMIS-JHUAPL	—	21,356
Assett, Inc.	12.UNKNOW	2017-003	—	32,266
CFD Research Corporation	12.UNKNOW	9246	—	(12)
CFD Research Corporation	12.UNKNOW	9177-15	—	(380)
Honeywell Technology Solutions, Inc.	12.UNKNOW	FA2550-04-C-0002	—	(5,681)
Lumint, LLC	12.UNKNOW	4085-000-045-13	—	121,470
National Security Technologies, LLC	12.UNKNOW	N00164-21-9-G012	—	99,988
On Demand Pharmacies	12.UNKNOW	JHUAPL01	—	449
Planetary Science Institute	12.UNKNOW	6416-60947	—	49
Plasmonics, Inc.	12.UNKNOW	APLAFRL004	—	15,104
Plasmonics, Inc.	12.UNKNOW	APLARL001	—	12,107
Plasmonics, Inc.	12.UNKNOW	APLARL003	—	(29)
Plasmonics, Inc.	12.UNKNOW	APLONR001	—	13,849
Praxis, Inc.	12.UNKNOW	25007-PXI-040	—	(92)
Probitas Project, Inc.	12.UNKNOW	PRO-SC-2019-004	—	(234)
RDRTec, INC	12.UNKNOW	4335-APL-2018-01 (REV 01)	—	(13)
SA Photonics, Inc.	12.UNKNOW	2045-JHUAPL2106	—	17,658
SARA, Inc.	12.UNKNOW	NAVY054-SCJ	—	50,936
Serient Science	12.UNKNOW	SS2019-0501JHU	—	(127)
Siemens Corporate Research, Inc.	12.UNKNOW	201-02	—	398,527
T2S Solutions, LLC	12.UNKNOW	20-02	16,524	505,918
Subtotal			93,037,425	1,411,134,321
Department of Defense Total – APL			93,665,863	1,416,187,890
Department of Interior:				
Department of Interior	15.UNKNOW	Direct	—	(84)
Scribe Biosciences	15.UNKNOW	01	—	(152)
Subtotal			—	(236)
Department of Interior Total – APL			—	(236)
Department of Justice:				
Department of Justice	16.UNKNOW	Direct	—	1,978,640
Department of Justice Total – APL			—	1,978,640
Department of State:				
Department of State	19.UNKNOW	Direct	—	1,932,724
Department of State Total – APL			—	1,932,724
Department of Transportation:				
Department of Transportation	20.UNKNOW	Direct	21,125	5,894,603
Department of Transportation Total – APL			21,125	5,894,603
Department of the Treasury				
Howard County Government: Coronavirus Relief Fund	21.019	HOCO-JHU-FY2021-01	31,995	1,019,457
Department of the Treasury Total – APL			31,995	1,019,457
National Aeronautics and Space Administration:				
Science	43.001	Direct	5,359,979	17,117,371
Aeolis Research Inc.	43.001	AR002	—	33,402
Aerospace	43.001	4600005864	—	358
Aerospace	43.001	4600006880	—	3,272
Andrews University	43.001	220304	—	71,711
Arizona State University	43.001	15-728	—	6
Arizona State University	43.001	ASUB00000480	—	1
Auburn University	43.001	80NSSC19K1304	—	25,859
Bay Area Environmental Research Institute	43.001	BAERI-08092019	—	8
Boston University	43.001	4500002708	—	67,437
Boston University	43.001	4500003038	—	40,663
Brown University	43.001	805	—	21
Cornell University	43.001	77067-10932	—	16,859
Dartmouth College	43.001	R1059	—	111,508

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Year ended June 30, 2022

Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Dartmouth College	43.001	R1131	\$ —	41,505
Embry-Riddle Aeronautical University	43.001	61536-1	—	26,121
Embry-Riddle Aeronautical University	43.001	61701-03	—	643
Embry-Riddle Aeronautical University	43.001	61704-02	—	450
Florida Institute of Technology	43.001	202416(JHUAPL)	—	48,704
Florida Institute of Technology	43.001	GR-232534	—	20,052
Illinois Institute of Technology	43.001	A19-0083-S001	—	46,239
Maryland Space Grant Consortium	43.001	2005195794	—	13,906
Montana State University	43.001	G190-18-W7153	—	36,788
Nanohmics, Inc.	43.001	NAN2050JHUAAPL	—	572
New Jersey Institute of Technology	43.001	897433	—	44,784
North Carolina State University	43.001	2016-3138-01	—	13
Northern Arizona University	43.001	1004334-02	—	14,500
Planicus Research	43.001	2018-08-0001	—	21
Planetary Science Institute	43.001	1528-JHU-APL	—	12,828
Planetary Science Institute	43.001	1542-JHU/APL	—	12,797
Planetary Science Institute	43.001	1745-JHUAPL	—	30,818
Planetary Science Institute	43.001	1773-JHUAPL	—	31,375
Planetary Science Institute	43.001	1790-JHUAPL	—	36,650
Planetary Science Institute	43.001	80ARCO17M0005	—	1,881
Planetary Science Institute	43.001	80NSSC19K1222	—	2,846
Predictive Science Inc.	43.001	90120NAPR09JHU	—	138
Purdue University	43.001	4103-62413	—	68
Search for Extraterrestrial Intelligence Institution	43.001	SC 3787	—	78
Smithsonian Astrophysical Observatory	43.001	22-SUBC-440-000-469430	—	2,996
Smithsonian Astrophysical Observatory	43.001	GOO-21018X	—	18,363
Smithsonian Astrophysical Observatory	43.001	SV1-21005	—	4,178
Southwest Research Institute	43.001	80NSSC19K0611	—	206,190
Southwest Research Institute	43.001	K99096CT	—	12
Southwest Research Institute	43.001	M99049EH	—	32,223
Space Hazards Applications, LLC.	43.001	80NSSC21K1488-1	—	52,700
Space Science Institute	43.001	SUBAWD01076	—	217,831
Space Telescope Science Institute	43.001	80ARCL17M0007	—	13,010
Space Telescope Science Institute	43.001	HST-AR-16139.005-A	—	2,356
Space Telescope Science Institute	43.001	HST-AR-16634.002-A	—	15,743
Space Telescope Science Institute	43.001	HST-GO-15625.006-A	—	15,323
Space Telescope Science Institute	43.001	HST-GO-15848.008-A	—	17,600
Space Telescope Science Institute	43.001	HST-GO-15926.017-A	—	4,708
Space Telescope Science Institute	43.001	HST-GO-16039.002-A	—	242
Space Telescope Science Institute	43.001	HST-GO-16086.003-A	—	7,452
Space Telescope Science Institute	43.001	HST-GO-16194.002-A	—	14,171
Space Telescope Science Institute	43.001	HST-GO-16652.003-A	—	78
Space Telescope Science Institute	43.001	HST-GO-16754.007-A	—	36
Space Telescope Science Institute	43.001	HST-GO-16878.006-A	—	5,427
The Aerospace Corporation	43.001	4600006505	—	5,326
Universities Space Research Association	43.001	02330-02	—	36,340
University Corporation for Atmospheric Research	43.001	SUBAWD000132	—	52
University Corporation for Atmospheric Research	43.001	SUBAWD000261	—	47,810
University Corporation for Atmospheric Research	43.001	SUBAWD000389	—	51,470
University Corporation for Atmospheric Research	43.001	SUBAWD001148	—	42,939
University Corporation for Atmospheric Research	43.001	SUBAWD002081	—	22,207
University Corporation for Atmospheric Research	43.001	SUBAWD002856	—	14,401
University of Alaska	43.001	80NSSC19K0843	—	5,928
University of Alaska	43.001	UA 21-0015	—	52,668
University of Alaska	43.001	UAF 20-0032	—	78,011
University of Alaska	43.001	UAF 20-0115	—	26,400
University of Arizona	43.001	654248	—	1,732
University of California Berkeley	43.001	10320	—	1
University of California Los Angeles	43.001	1000 G XA167	—	59
University of California Los Angeles	43.001	1000 G XD391	—	11,566
University of California Los Angeles	43.001	2090 G WA670	—	46
University of California Los Angeles	43.001	2090 G YA150	—	11,106
University of Central Florida	43.001	24086221-01	—	11,476
University of Colorado	43.001	1554848	—	26
University of Colorado	43.001	1555192	—	103,858
University of Idaho	43.001	80NSSC19K0896	—	5,997
University of Idaho	43.001	AMK148-SB-001	—	59
University of Idaho	43.001	SP6063-880880	—	87
University of Iowa	43.001	S00967-01	—	6,546
University of Iowa	43.001	S02701-01	—	6,983
University of Maryland	43.001	100665-Z6362201	—	304
University of Maryland	43.001	106155-Z6413201	—	18,458
University of Maryland	43.001	61787-Z6072201	—	11
University of Maryland	43.001	65773-Z6124202	—	27,475
University of Maryland	43.001	88626-Z6172202	—	113,573
University of Maryland	43.001	NASA0096-01	—	85
University of Massachusetts	43.001	17-009264 A	—	33
University of Michigan	43.001	SUBK00012931	—	61
University of Michigan	43.001	SUBK00013033	—	96
University of Nevada Reno	43.001	UNR 19-28	30,071	122,795
University of Tennessee	43.001	A20-1271-S001	—	8,956
University of Tennessee	43.001	A21-0101-S001	—	65,841
Washington University	43.001	WU-20-441	—	27,616
Wellesley University	43.001	SA26484	—	29,621
West Virginia University	43.001	21-923-JHU	—	20,140
Subtotal			5,390,050	19,521,051
University of Maryland: Exploration	43.003	85753-Z6236207	—	63,408
Space Technology	43.012	Direct	—	3,740
National Aeronautics and Space Administration	43.UNKNOW	Direct	61,159,187	295,113,408
Arizona State University	43.UNKNOW	11-553	—	171,380
Arizona State University	43.UNKNOW	15-707	—	231,591
Arizona State University	43.UNKNOW	17-256	—	106,778
Arizona State University	43.UNKNOW	ASUB00000694	—	53,594
California Institute of Technology	43.UNKNOW	S448305	—	31,163
Honeybee Robotics	43.UNKNOW	484.SBC.001	—	8,263
Jet Propulsion Laboratory	43.UNKNOW	1277793	516,100	1,797,301
Jet Propulsion Laboratory	43.UNKNOW	1530822	1,008,735	15,155,926
Jet Propulsion Laboratory	43.UNKNOW	1531614	1,092,683	4,707,565
Jet Propulsion Laboratory	43.UNKNOW	1532372	471,761	2,953,168
Jet Propulsion Laboratory	43.UNKNOW	1532432	—	162,931
Jet Propulsion Laboratory	43.UNKNOW	1532734	—	162,477
Jet Propulsion Laboratory	43.UNKNOW	1541408	—	5,580
Jet Propulsion Laboratory	43.UNKNOW	1546033	—	126,111
Jet Propulsion Laboratory	43.UNKNOW	1546282	20,792,666	70,489,310
Jet Propulsion Laboratory	43.UNKNOW	1551217	—	(13)
Jet Propulsion Laboratory	43.UNKNOW	1556149	—	19

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Jet Propulsion Laboratory	43.UNKNOW	1569206	\$ 2,116,108	3,808,902
Jet Propulsion Laboratory	43.UNKNOW	1574569	—	686
Jet Propulsion Laboratory	43.UNKNOW	1610740	—	61
Jet Propulsion Laboratory	43.UNKNOW	1639319	—	(450)
Jet Propulsion Laboratory	43.UNKNOW	1643689	—	(3,213)
Jet Propulsion Laboratory	43.UNKNOW	1650323	—	(291)
Jet Propulsion Laboratory	43.UNKNOW	1655893	—	63,462
Jet Propulsion Laboratory	43.UNKNOW	1656276	—	1,177
Jet Propulsion Laboratory	43.UNKNOW	1656733	—	3,675
Jet Propulsion Laboratory	43.UNKNOW	1657153	—	55,953
Jet Propulsion Laboratory	43.UNKNOW	1658085	—	869,912
Jet Propulsion Laboratory	43.UNKNOW	1660492	—	23,784
Jet Propulsion Laboratory	43.UNKNOW	1662347	—	818
Jet Propulsion Laboratory	43.UNKNOW	1662611	—	79,810
Jet Propulsion Laboratory	43.UNKNOW	1665900	—	23,656
Jet Propulsion Laboratory	43.UNKNOW	1667439	—	73,894
Jet Propulsion Laboratory	43.UNKNOW	1669336	—	20,333
Jet Propulsion Laboratory	43.UNKNOW	1669890	—	7,787
Jet Propulsion Laboratory	43.UNKNOW	1669892	—	9,340
Jet Propulsion Laboratory	43.UNKNOW	1670201	—	7,480
Jet Propulsion Laboratory	43.UNKNOW	1670486	—	4,003
Jet Propulsion Laboratory	43.UNKNOW	1670967	—	18,078
Jet Propulsion Laboratory	43.UNKNOW	1671834	—	18,294
Jet Propulsion Laboratory	43.UNKNOW	1672471	—	22,349
Jet Propulsion Laboratory	43.UNKNOW	1681143	—	4,719
Makel Engineering	43.UNKNOW	SUB0180NSSC19C0160	11,278	37,770
Makel Engineering	43.UNKNOW	SUB0280NSSC20C0158	5,265	68,713
Nabla Zero Labs	43.UNKNOW	2020-1029625	—	54,555
New Jersey Institute of Technology	43.UNKNOW	996575	—	76,881
Princeton University	43.UNKNOW	SUB0000158	—	740,673
Princeton University	43.UNKNOW	SUB0000192	—	11,115
Rocket Lab	43.UNKNOW	ZZ550010	5,293	2,446,238
Southwest Research Institute	43.UNKNOW	499879Q	13,903,499	1,534,432
Southwest Research Institute	43.UNKNOW	692005N	—	217,855
Southwest Research Institute	43.UNKNOW	699044X	—	812,738
Southwest Research Institute	43.UNKNOW	D99024L	—	(1,505)
Southwest Research Institute	43.UNKNOW	K99032MEC	—	290,354
Southwest Research Institute	43.UNKNOW	N99057DS	—	51
Southwest Research Institute	43.UNKNOW	P99036DS	—	50,106
Southwest Research Institute	43.UNKNOW	O99015N	—	478,659
TRAC Labs	43.UNKNOW	T0113.001.T064	—	35,106
University of Arizona	43.UNKNOW	Y603234	—	143,283
University of California	43.UNKNOW	8211	—	76,218
University of California Berkeley	43.UNKNOW	132402160	—	22,576
University of California Berkeley	43.UNKNOW	BB01448092	368	84,892
University of California Los Angeles	43.UNKNOW	0995-S-SA812	245	672,628
University of Colorado	43.UNKNOW	1558824	—	737
University of Texas	43.UNKNOW	UTA16-001082	—	44,309
X-wave Innovations, Inc.	43.UNKNOW	1060-091120-01	—	(76)
Subtotal			<u>101,083,188</u>	<u>404,289,049</u>
National Aeronautics and Space Administration Total – APL			<u>106,473,238</u>	<u>423,877,248</u>
National Science Foundation:				
Rice University: Mathematical and Physical Sciences	47.049	X03018064	—	13,266
University of Arizona	47.049	519068	—	32,945
Subtotal			—	46,211
Geosciences	47.050	Direct	549,985	2,592,076
American University	47.050	A21-0027-S001-31603	—	47,913
Subtotal			<u>549,985</u>	<u>2,639,989</u>
Computer and Information Science and Engineering	47.070	Direct	—	22,655
Polar Programs	47.078	Direct	—	64,223
National Science Foundation Total – APL			<u>549,985</u>	<u>2,773,078</u>
Director of National Intelligence				
Director of National Intelligence	54.UNKNOW	Direct	2,397,424	9,944,179
Director of National Intelligence Total – APL			<u>2,397,424</u>	<u>9,944,179</u>
Department of Veteran Affairs				
Department of Veteran Affairs	64.UNKNOW	Direct	—	2,573
Department of Veteran Affairs Total – APL			—	2,573
Department of Energy:				
Office of Science Financial Assistance Program	81.049	Direct	45,564	503,922
Department of Energy	81.UNKNOW	Direct	—	203,101
Fluor Marine Propulsion, LLC.	81.UNKNOW	142980	—	96,772
Lawrence Livermore National Laboratory	81.UNKNOW	B651497	—	24,094
Lawrence Livermore National Laboratory	81.UNKNOW	LLNL B621535	—	(29)
Oakridge Associated Universities	81.UNKNOW	4000167418	—	214,312
Sandia National Laboratories	81.UNKNOW	670036	—	(908)
Subtotal			—	537,342
Department of Energy Total – APL			<u>45,564</u>	<u>1,041,264</u>
Department of Health and Human Services:				
State of Oregon: Public Health Emergency Preparedness	93.069	134673	—	57,802
Prevention of Disease, Disability, and Death by Infectious Diseases	93.084	Direct	—	46
Maryland Department of Health: Injury Prevention and Control Research and State and Community Based Programs	93.136	21-JHU-OCP-G-1	—	61,932
Maryland Department of Health	93.136	21-JHU-OCP-G-1-COVID_EXPANSION	—	40,726
Oregon Department of Health	93.136	162991	—	12,850
Oregon Department of Health	93.136	167056	—	42,631
Subtotal			—	158,139
Research Related to Deafness and Communication Disorders	93.173	Direct	—	13
Mental Health Research Grants	93.242	Direct	42,120	1,149,399
Maryland Department of Health: Prevention Investigations and Technical Assistance	93.283	E4459	—	14,715
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Direct	89,926	444,680
Protecting and Improving Health Globally: Building and Strengthening Public Health Impact, Systems, Capacity and Security	93.318	Direct	—	150,109
Maryland Department of Health: Public Health Emergency Response: Cooperative Agreement for Emergency Response: Public Health Crisis Response	93.354	FY19-JHUAPL-PHCROPIOD-G1	—	3,891
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	Direct	—	311,535
Vision Research	93.867	Direct	91,731	621,347
Department of Health and Human Services	93.UNKNOW	Direct	777,554	8,292,443

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Emory University	93.UNKNOW	A634781	\$ —	9,227
U.S. Civilian Research & Development Foundation	93.UNKNOW	OISE-20-66669	—	322,974
Subtotal			777,554	8,624,644
Department of Health and Human Services Total – APL			1,001,331	11,536,320
Executive Office of the President:				
Executive Office of the President	95.UNKNOW	Direct	—	1,194
Executive Office of the President Total – APL			—	1,194
Social Security Administration				
Social Security Administration	96.UNKNOW	Direct	43,721	4,958,193
Social Security Administration Total – APL			43,721	4,958,193
Department of Homeland Security:				
District of Columbia Government: Homeland Security Grant Program	97.067	18UASI137-01	—	180
District of Columbia Government	97.067	19UASI137-01	—	472
District of Columbia Government	97.067	19UASI137-02	—	160,898
District of Columbia Government	97.067	20UASI137-01	—	261,602
District of Columbia Government	97.067	20UASI137-02	—	15,758
District of Columbia Government	97.067	21UASI137	—	11,166
Subtotal			—	450,076
CISA Cyber Security Awareness Campaign	97.128	Direct	—	59,779
Department of Homeland Security	97.UNKNOW	Direct	2,911,645	32,402,736
Department of Homeland Security Total – APL			2,911,645	32,912,591
Federal Deposit Insurance Corp.:				
Federal Deposit Insurance Corp.	99.UNKNOW	Direct	177,832	1,101,533
Federal Deposit Insurance Corp. Total – APL			177,832	1,101,533
United States Government – Classified:				
United States Government – Classified	99.UNKNOW	Direct	2,363,607	68,864,258
United States Government – Classified Total – APL			2,363,607	68,864,258
Other Federal Agencies				
Bechtel Plant Machinery Inc.: Other Federal Agencies	99.UNKNOW	SET0001-0030	—	(287)
Bode Technology Group, Inc.	99.UNKNOW	BODE AGREEMENT 5-1-12	—	51
DEFENSEWERX, Inc.	99.UNKNOW	DEFENSEWERX AGREEMENT 1/4/22	—	270,000
Other Federal Agencies Total – APL			—	269,764
Research and Development Cluster Total – APL			209,683,330	1,985,889,349
Other Divisions:				
Department of Agriculture:				
Agricultural Research Basic and Applied Research	10.001	Direct	—	10,346
CRDF Global	10.001	DAA3-19-65451-1	—	13,762
CRDF Global	10.001	DAA3-19-65671-1	—	290,211
CRDF Global	10.001	DAA3-19-65709-1	—	60,527
CRDF Global	10.001	DAA3-20-66289	—	12,337
CRDF Global	10.001	DAA3-20-66557-1	—	35,588
CRDF Global	10.001	DAA900-18-64081-1	—	23,680
CRDF Global	10.001	DAA9-19-65344-1	—	16,015
CRDF Global	10.001	DAA9-19-65351-1	—	2,742
CRDF Global	10.001	DAA9-19-65377-1	—	8,164
CRDF Global	10.001	OISE-15-614381	—	19,297
Subtotal			—	492,669
University of Vermont: Sustainable Agriculture Research and Education	10.215	GENE19-209-33243	—	4,594
University of Delaware: Agricultural and Rural Economic Research, Cooperative Agreements and Collaboration	10.250	UDR0000136	—	27,285
University of Michigan: Consumer Data and Nutrition Research	10.253	SUBK00014953	—	(917)
Agriculture and Food Research Initiative (AFRI)	10.310	Direct	275,217	492,133
Colorado State University	10.310	G-35015-01	—	4,117
Connecticut Agricultural Experiment Station	10.310	CAES-2021-JHU23000-1	—	63,007
University of Delaware	10.310	55267	—	34,124
University of North Carolina Greensboro	10.310	20200019	—	20,211
Washington State University	10.310	137626-SPC003622	—	55,198
Subtotal			275,217	668,790
Participant Research Innovation Laboratory for Enhancing WIC Services	10.540	Direct	10,319	405,521
Maryland Department of Health: Special Supplemental Nutrition Program for Women, Infants, and Children	10.557	M00B0600025	—	1,789,936
University of California Davis: Research Joint Venture and Cost Reimbursable Agreements	10.707	A20-4414-S001	—	32,806
Department of Agriculture Total – Other Divisions			285,536	3,420,684
Department of Commerce:				
University of New Hampshire: NOAA Mission-Related Education Awards	11.008	L0130	—	52,248
Cluster Grants, Economic Development Administration	11.020	Direct	—	268,522
Maryland Sea Grant - University of Maryland: Sea Grant Support	11.417	SA075281850-1	—	25
Climate and Atmospheric Research	11.431	Direct	119	217,390
Rand Corporation	11.431	SCON-00000048	—	(3,934)
Rand Corporation	11.431	SCON-00000450	—	15,808
Subtotal			119	229,264
Measurement and Engineering Research and Standards	11.609	Direct	—	30,058
Stanford University	11.609	62522374-194763	—	40,217
Subtotal			—	70,275
University of Delaware	11.619	COVID19-1.05	—	100,370
University of Delaware	11.619	PC1.0-12	—	65
Subtotal			—	100,435
Science, Technology, Business and/or Education Outreach	11.620	Direct	652,912	3,468,520
Department of Commerce Total – Other Divisions			653,031	4,189,289
Department of Defense:				
Basic and Applied Scientific Research	12.300	Direct	1,717,302	7,409,671
Brown University	12.300	1129	—	347,898
Northeastern University	12.300	503405-78051	—	272,122
Ohio State University	12.300	60076522	—	29,903
Rice University	12.300	R1A846	—	109,324
Stanford University	12.300	62145216-107484	—	207,490
University of Maryland College Park	12.300	88516-Z8262202	—	94,021
University of Minnesota	12.300	A006141806	—	40,204
University of Nevada Las Vegas	12.300	17-259-00/GR08554	—	9,109
University of Notre Dame	12.300	203369JHU	—	8,299
Subtotal			1,717,302	8,528,041

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University Space Research Association: Science, Technology, Engineering & Mathematics (STEM) Education, Outreach and Workforce Program	12.330	SUBK-21-0129	\$ —	40,214
Henry M. Jackson Foundation: Naval Medical Research and Development	12.340	5421	—	233,370
Department of Defense HIV/AIDS Prevention Program	12.350	Direct	1,378,637	26,626,827
Scientific Research - Combating Weapons of Mass Destruction	12.351	Direct	2,659,978	4,548,694
Military Medical Research and Development	12.420	Direct	4,328,261	29,345,168
American Burn Association	12.420	STAT: Standard Thera	—	15,725
Atrium Health	12.420	300301433 (A18-0259-	30,848	108,561
Atrium Health	12.420	A19-0273-S001(300030	3,977	150,507
Baylor College of Medicine	12.420	W81XWH-17-1-0579	—	18,165
Boston University	12.420	4500003271	126	78,289
Children's Hospital of Philadelphia	12.420	321127020	—	49,805
Children's Research Institute	12.420	30004403	—	10,823
Coalition for National Trauma Institute	12.420	NTI-MIMIC17-02	—	105,448
Hennepin Healthcare Research Institute	12.420	15275-01	23,228	189,973
Henry M. Jackson Foundation	12.420	5527	—	22,977
Henry M. Jackson Foundation	12.420	5649	—	12,996
Henry M. Jackson Foundation	12.420	5794-1027537-66786	—	43,342
Henry M. Jackson Foundation	12.420	Subaward No. 5128	—	110,698
Infinite Biomedical Technologies	12.420	W81XWH2010919	—	31,950
Intermountain Medical Center	12.420	W81XWH-21-1-0050	—	179,740
Kennedy Krieger Institute	12.420	113265-0921-01	—	44,602
Massachusetts Eye and Ear Infirmary	12.420	38029	—	(4,964)
New York University	12.420	16-AD-00-007201	—	(87)
Novobiotic Pharmaceuticals	12.420	W81XWH1820046	—	154,528
Rubicon Biotechnology	12.420	Rubicon-JHU-P010	—	234,421
Thomas Jefferson University	12.420	W81XWH-20-10310	—	22,952
University of Alabama at Birmingham	12.420	000422086-013	—	162
University of Alabama at Birmingham	12.420	000516840-SC019-T002	—	14,649
University of California Davis	12.420	A19-0296-S001	—	15,105
University of California Irvine	12.420	2021-1582	—	1,460
University of California San Diego	12.420	95921678	—	4,194
University of California San Diego	12.420	105637007	—	17,880
University of California San Diego	12.420	W81XWH-17-2-0051	—	4,408
University of Colorado Denver	12.420	FY20.944.001	—	118,735
University of Iowa	12.420	S00523-01	—	23,990
University of Maryland Baltimore	12.420	2003879	—	34,074
University of Maryland Medical System	12.420	F302349-7	—	14,474
University of Miami	12.420	OS00000028	—	127,810
University of Miami	12.420	SPC-000962	—	3,871
University of Missouri	12.420	C00069632-2	—	35,113
University of Pennsylvania	12.420	577486	—	54,725
University of Pittsburgh	12.420	W81XWH1810602	—	106,817
University of Texas at Austin	12.420	UTA19-001115	—	139,226
University of Texas at Dallas	12.420	1604938	—	106,093
University of Texas at Dallas	12.420	2008088	—	26,467
University of Utah	12.420	10054547-01	22,111	185,961
Vanderbilt University	12.420	VUMC 69451	185,012	264,971
Vanderbilt University	12.420	VUMC 69451	—	197,420
Wake Forest University	12.420	WFUHS 441035 CTA-05	—	22,624
Wake Forest University	12.420	WFUHS 441036 CTA-06	—	27,474
Wake Forest University	12.420	WFUHS 441058 ER-08	—	75,183
Subtotal			4,593,563	32,538,485
Basic Scientific Research	12.431	Direct	1,688,524	4,532,973
Harvard University	12.431	134373-5114505	—	189,053
National Center for the Advancement of Stem Education	12.431	P00032	—	(1,172)
University of Pennsylvania	12.431	574723	—	270,039
Subtotal			1,688,524	4,990,893
Basic, Applied, and Advanced Research in Science and Engineering	12.630	Direct	4,893,448	8,151,966
Morgan State University	12.630	MSU-JHU-20213	—	211,426
Rochester Institute of Technology	12.630	90092327	—	16,400
Subtotal			4,893,448	8,379,792
Geneva Foundation: Uniformed Services University Medical Research Projects	12.750	S-11021-06	—	31,426
Henry M. Jackson Foundation	12.750	5618	—	125,612
Henry M. Jackson Foundation	12.750	Sub5314 PO997761	—	17,058
Henry M. Jackson Foundation	12.750	Subaward No. 5258	—	155,766
Subtotal			—	329,862
Air Force Defense Research Sciences Program	12.800	Direct	4,298	2,808,656
Air Force Defense Research Sciences Program: COVID-19	12.800	Direct	—	147,399
Cornell University	12.800	76123-10591	—	4,131
Florida State University	12.800	R000002906	—	114,914
Florida State University	12.800	R01891	—	(9,793)
Pratt & Whitney	12.800	2020004	—	122,353
University of California San Diego	12.800	A21-0038-S003	—	115,772
University of Dayton Research Institute	12.800	RSC20009	—	85,205
University of Maryland College Park	12.800	38061-Z8185002	—	408,206
University of New Mexico	12.800	707824-8727	—	100,421
Subtotal			4,298	3,897,264
Mathematical Sciences Grants	12.901	Direct	—	3,495
Maryland Procurement Office: Information Security Grants	12.902	H98230-16D0026/0006	365,155	6,247,595
Maryland Procurement Office	12.902	H98230-16-D0026/0007	—	596,686
Subtotal			365,155	6,844,281
Research and Technology Development	12.910	Direct	1,137,837	4,652,347
HRL Laboratories, LLC	12.910	18075-192741-US	—	148,993
Montana State University	12.910	G166-19-W7329	134,118	214,896
Trail of Bits	12.910	HR001120C0084	—	286,076
University of Maryland College Park	12.910	92605-Z9629201	—	214,624
Subtotal			1,271,955	5,516,936
Department of Defense	12.UNKNOW	Direct	4,496,896	19,066,964
Ailon Science and Technology Corp.	12.UNKNOW	SUB1160014-001	—	105,904
Ailon Science and Technology Corp.	12.UNKNOW	SUB1160014-002	—	28,964
AntiRadical Therapeutics, LLC	12.UNKNOW	W81XWH19C0022	—	(6,383)
Arctos Technology Solutions, LLC	12.UNKNOW	165524-195574-21-08-	—	288,946
Bioling Incorporated	12.UNKNOW	90097199	—	186,199
Booz Allen Hamilton, Inc.	12.UNKNOW	A3169	—	29,072
Brimrose Corporation of America	12.UNKNOW	W81XWH21P0150	—	76,834
Brown University	12.UNKNOW	1566	—	131,132
Cellphire Therapeutics, Inc.	12.UNKNOW	CRYPTICS	—	7,515
Coalition for National Trauma Institute	12.UNKNOW	NTRAP-18-03	—	10,004
Fibertek, Inc.	12.UNKNOW	8210007	—	62,525

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Fibertek, Inc.	12.UNKNOW	8210017	\$ —	79,098
General Electric Corporation	12.UNKNOW	401119022	80,292	533,235
Henry M. Jackson Foundation	12.UNKNOW	997737	125,457	121,460
Henry M. Jackson Foundation	12.UNKNOW	999800	76,062	266,600
Henry M. Jackson Foundation	12.UNKNOW	1006013	—	361,759
Henry M. Jackson Foundation	12.UNKNOW	1007958	—	486,087
Henry M. Jackson Foundation	12.UNKNOW	JHU-Manab	—	261,073
Innovision, LLC	12.UNKNOW	90095342	—	80,000
Innovision, LLC	12.UNKNOW	SBIR Phase 1 SOW	—	3,184
Intelligent Automation, Inc.	12.UNKNOW	2415-003-1	—	12,620
Intermountain Medical Center	12.UNKNOW	W81XWH-17-PRMRP-HRA	—	185,225
Massachusetts Institute of Technology	12.UNKNOW	PO 12-7000354785	—	139,402
Massachusetts Institute of Technology	12.UNKNOW	PO7000539755	—	39,623
Melatech, LLC	12.UNKNOW	90099325	—	292
Optowares, Inc.	12.UNKNOW	210914	—	18,724
Raytheon Technologies Corporation	12.UNKNOW	90013	—	206,151
Space Micro, Inc.	12.UNKNOW	DEFORMO	—	2,452
Stottler Henke	12.UNKNOW	140D6318C0018	—	44,187
Systems and Technology Research	12.UNKNOW	2020-0062	—	109,208
Systems and Technology Research	12.UNKNOW	2021-0037	—	43,885
T&T Consulting Services	12.UNKNOW	C.JHMI_40009.015	—	1,342,851
T&T Consulting Services	12.UNKNOW	HT001520F0198	—	1,036
Technology Holding, LLC	12.UNKNOW	IPN: 20120664	—	55,371
Technology Holding, LLC	12.UNKNOW	W911SR21C5000	—	39,701
Texas A&M Engineering Experiment Station	12.UNKNOW	M2200320	—	38,690
The National Organization of Technology Exploration and Delivery	12.UNKNOW	Noted-JHU-001	—	18,163
UES, Inc.	12.UNKNOW	S-111-085-001	—	16,748
University of Illinois Chicago	12.UNKNOW	14272	—	220,883
University of Maryland College Park	12.UNKNOW	#108470-Z9467201	—	792,892
University of Pittsburgh	12.UNKNOW	FY2022-17909-SVC	—	3,480
University of Washington	12.UNKNOW	UWSC13534	—	126,284
Vanderbilt University Medical Center	12.UNKNOW	VUMC78339	—	8,532
Subtotal			<u>4,778,507</u>	<u>25,646,572</u>
Department of Defense Total – Other Divisions			<u>23,351,367</u>	<u>128,124,726</u>
Department of Housing and Urban Development:				
General Research and Technology Activity	14.506	Direct	737,708	893,886
Healthy Homes Technical Studies Grants	14.906	Direct	—	125,066
Department of Housing and Urban Development Total – Other Divisions			<u>764,686</u>	<u>1,018,952</u>
Department of Interior:				
University of Maryland College Park: Department of Interior	15.UNKNOW	92484-Z9618203	—	893,762
Department of Interior Total – Other Divisions			<u>—</u>	<u>893,762</u>
Department of Justice:				
OVW Technical Assistance Initiative	16.526	Direct	1,704	41,699
National Institute of Justice Research, Evaluation, and Development Project Grants	16.560	Direct	46,074	213,564
Texas State University	16.560	21023-83648-1	—	141,177
Subtotal			<u>46,074</u>	<u>354,741</u>
Native American Community Clinic: Crime Victim Assistance	16.575	OVC/NACC	—	8,623
Crime Victim Assistance/Discretionary Grants	16.582	Direct	55,101	241,626
Maryland Department of Health: Harold Rogers Prescription Drug Monitoring Program	16.584	2018-PM-BX-K098	—	37,743
Department of Justice	16.UNKNOW	Direct	—	142,122
Department of Justice Total – Other Divisions			<u>102,879</u>	<u>826,554</u>
Department of State:				
International Programs to Combat Human Trafficking	19.019	Direct	29,988	83,312
University of Georgia	19.019	SUB00002414	—	140,936
Subtotal			<u>84,312</u>	<u>224,248</u>
The U.S. President's Emergency Plan for AIDS Relief Programs	19.029	Direct	—	44,000
Global Threat Reduction	19.033	Direct	—	239,699
Public Diplomacy Programs	19.040	Direct	—	203,013
Save the Children Federation, Inc.: Overseas Refugee Assistance Programs for Strategic Global Priorities	19.522	SPRMC021CA3133	—	9,684
FHI 360: Bureau of Near Eastern Affairs	19.600	PO22001366	—	77,458
Weapons Removal and Abatement	19.800	Direct	—	382,562
Department of State	19.UNKNOW	Direct	—	976,999
Johns Hopkins Health System	19.UNKNOW	19AQM20C0144	—	417,322
Subtotal			<u>—</u>	<u>1,394,321</u>
Department of State Total – Other Divisions			<u>84,312</u>	<u>2,574,975</u>
Department of Transportation:				
National Academies of Sciences, Engineering, and Medicine: National Highway Traffic Safety Administration (NHTSA) Discretionary Safety Grants and Cooperative Agreements	20.614	SUB0001773	—	37,551
Transportation Research Board	20.614	BTS-11	—	193,433
Subtotal			<u>—</u>	<u>230,984</u>
Texas A&M University: University Transportation Centers Program	20.701	12-S171236	—	131,127
Dunlap and Associates, Inc.: Department of Transportation	20.UNKNOW	DTNH2211D00225L/0006	—	19,892
Dunlap and Associates, Inc.	20.UNKNOW	DTNH2217D00031	—	33,450
Subtotal			<u>—</u>	<u>53,342</u>
Department of Transportation Total – Other Divisions			<u>—</u>	<u>415,453</u>
National Aeronautics and Space Administration:				
Science	43.001	Direct	510,671	5,972,471
Arizona State University	43.001	ASUB00000779	—	8,754
Columbia University	43.001	1(GG015641)	—	53,705
Jet Propulsion Laboratory	43.001	1657156	—	29,444
Jet Propulsion Laboratory	43.001	1658514	—	34,159
Jet Propulsion Laboratory	43.001	1670981	—	95,925
Jet Propulsion Laboratory	43.001	1673898	—	17,283
Jet Propulsion Laboratory	43.001	12-EUCLID12-0004	—	31,492
Million Concepts LLC	43.001	1	—	52,022
Rochester Institute of Technology	43.001	31977-01	—	151,407
Southwest Research Institute	43.001	K99089JRG	—	46,789
University of Arizona	43.001	466909	—	3,505
University of California Santa Cruz	43.001	A21-0323-S001	—	32,506
University of Central Florida	43.001	66016A29	—	10,532
University of Colorado	43.001	1557824	—	111,573
University of Colorado	43.001	1558020	—	13,166
University Space Research Association	43.001	570006	—	64,188
Virginia Polytechnic Institute and State University	43.001	426704-19446	—	79,990
Subtotal			<u>510,671</u>	<u>6,808,911</u>

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Aeronautics	43.002	Direct	\$ 146,347	360,284
Exploration	43.003	Direct	62,062	313,658
Baylor College of Medicine	43.003	7000001352	—	59,800
Baylor College of Medicine	43.003	7000001410	—	69,951
Baylor University	43.003	7000001228	—	647,576
Subtotal			<u>62,062</u>	<u>1,090,985</u>
Office of Stem Engagement (OSTEM)	43.008	Direct	—	(124)
Safety, Security and Mission Services	43.009	Direct	—	331,452
Space Technology	43.012	Direct	—	59,542
Michigan Technological University	43.012	160706025	—	95,783
Subtotal			<u>—</u>	<u>155,325</u>
National Aeronautics and Space Administration	43.UNKNOOWN	Direct	102,987	228,679
Aicyon, Inc.	43.UNKNOOWN	ATSVJ-D-38008-015	—	640,846
ASRC Federal Holding Company, LLC	43.UNKNOOWN	AMS1725	—	(133)
Boston University	43.UNKNOOWN	4500003485	—	35,100
CFD Research Corporation	43.UNKNOOWN	20200748	—	91,384
Jet Propulsion Laboratory	43.UNKNOOWN	1548315	—	125,207
KBR Wyle Services, LLC	43.UNKNOOWN	SMS0004390	—	49,362
Space Telescope Science Institute	43.UNKNOOWN	HST-AR-16142.003-A	—	8,094
Space Telescope Science Institute	43.UNKNOOWN	HST-AR-16629.001-A	—	65,374
Space Telescope Science Institute	43.UNKNOOWN	HST-AR-16636.001-A	—	30,932
Space Telescope Science Institute	43.UNKNOOWN	HST-AR-16637.001-A	—	27,833
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-14119.001-A	—	11,864
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-14689.015-A	—	65,519
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15186.001-A	—	3,106
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15216.001-A	—	6,953
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15268.002-A	—	2,057
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15285.002-A	—	(1)
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15334.005-A	—	86,235
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15626.010-A	—	18,536
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15640.001-A	—	32,321
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15643.025-A	—	19,979
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15654.004-A	—	173
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15694.002-A	—	3,041
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15813.003-A	—	24,945
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15832.001-A	—	10,447
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15838.004-A	—	19,405
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15840.034-A	—	51,040
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15865.013-A	—	49,616
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15870.002-A	—	1,722
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15879.001-A	—	17,975
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15893.002-A	—	3,627
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-15900.002-A	—	23,868
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16039.001-A	—	52,949
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16086.002-A	—	18,135
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16198.001-A	—	63,693
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16250.002-A	—	47,670
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16269.002-A	—	41,632
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16270.003-A	—	26,460
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16281.018-A	—	95,466
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16316.002-A	—	10,394
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16450.002-A	—	10,855
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16499.006-A	—	4,952
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16676.001-A	—	19,570
Space Telescope Science Institute	43.UNKNOOWN	HST-GO-16776.002-A	—	4,292
Space Telescope Science Institute	43.UNKNOOWN	HST-HF2-51409.002-A	—	25,211
Space Telescope Science Institute	43.UNKNOOWN	JWST-ERS-01335.002-A	—	30,903
Space Telescope Science Institute	43.UNKNOOWN	JWST-ERS-01366.062-A	—	20,057
Space Telescope Science Institute	43.UNKNOOWN	STScI - 52333	—	26,578
Space Telescope Science Institute	43.UNKNOOWN	STScI-51038	—	11,740
Space Telescope Science Institute	43.UNKNOOWN	STScI-51509	—	380,733
University of California Santa Cruz	43.UNKNOOWN	A170899S05P0717460	—	124,792
University Space Research Association	43.UNKNOOWN	SOF 08-0029	—	7,000
University Space Research Association	43.UNKNOOWN	SOF 08-0038	6,991	232,244
Subtotal			<u>109,978</u>	<u>3,010,432</u>
National Aeronautics and Space Administration Total – Other Divisions			<u>829,058</u>	<u>11,757,265</u>
National Endowment for the Humanities:				
Promotion of the Humanities Division of Preservation and Access	45.149	Direct	—	36,383
Promotion of the Humanities Research	45.161	Direct	—	107,774
University of Nebraska	45.161	25-1620-0040-003	—	6,185
Subtotal			<u>—</u>	<u>113,959</u>
Association of American Medical Colleges: Promotion of the Humanities Teaching and Learning Resources and Curriculum Development	45.162	GT-32018-20-05	—	18,364
University of California Berkeley	45.162	10942	—	1,066
Subtotal			<u>—</u>	<u>19,430</u>
Promotion of the Humanities Office of Digital Humanities	45.000	Direct	—	(6,514)
Museums for America	45.301	Direct	—	1,667
National Endowment for the Humanities Total – Other Divisions			<u>—</u>	<u>164,925</u>
National Science Foundation:				
Engineering	47.041	Direct	927,537	7,697,565
Engineering: COVID-19	47.041	Direct	—	92,876
American University	47.041	31630-A210102-S01	—	43,349
American University	47.041	31663-A220027-S01	—	57,036
Celeflux, LLC	47.041	NSF 19-555	—	83,883
Clemson University	47.041	1887-206-2011582	—	(36)
Columbia University	47.041	1(GG012507-02)	—	697
Cornell University	47.041	82179-10928	—	100,439
JuneBrain Inc.	47.041	2053315sub	—	117,040
Lumo Imaging, LLC	47.041	1	—	61,160
Neurosonics Medical, Inc.	47.041	S-200201- NE1 NSF ST	—	6,809
New York University	47.041	20-A0-00-1005110	—	3,351
New York University	47.041	F8689-02	—	1,514
North Carolina State University	47.041	2021-0052-01	—	214,741
Oncospace, Inc.	47.041	2035750	—	52,920
Rowan University	47.041	50770-1	—	4,758
StoCastic, LLC	47.041	1738440	—	2,222
University of California Berkeley	47.041	10843	—	11,486
University of Delaware	47.041	50280	—	53,444
University of Maryland College Park	47.041	104755-Z3822207	—	49,417
University of Maryland College Park	47.041	104938-Z3794209	—	18,058

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of Maryland College Park	47.041	77135-Z3317201	\$ —	15,254
University of Massachusetts Lowell	47.041	S5210000033927	—	52,670
Subtotal			<u>927,537</u>	<u>8,740,653</u>
Mathematical and Physical Sciences	47.049	Direct	79,751	9,235,320
Colorado State University	47.049	G-44511-01	—	(3)
Cornell University	47.049	75737-10673	—	(33,812)
Cornell University	47.049	92356-20785	—	1,182,408
Duke University	47.049	333-2769	—	174,886
National Radio Astronomy Observatory	47.049	SOSPA7-027	—	8,352
Princeton University	47.049	SUB0000151	—	171,755
Princeton University	47.049	SUB0000176	—	23,023
University of Delaware	47.049	59784	—	21,984
University of Nebraska	47.049	25-0521-0244-005	—	23,023
Subtotal			<u>79,751</u>	<u>10,806,936</u>
Geosciences	47.050	Direct	35,852	1,266,140
University of California San Diego	47.050	KR 704363	—	12,796
University of Utah	47.050	10040652-JHU	—	(259)
Subtotal			<u>35,852</u>	<u>1,278,677</u>
Computer and Information Science and Engineering	47.070	Direct	365,542	6,759,228
Indiana University	47.070	8710-JHU	—	12,919
Indiana University	47.070	BL-4812517-JHU	—	111,278
Indiana University	47.070	BL-4812534-JHU	—	60,591
Massachusetts Institute of Technology	47.070	S4918, PO#388702	—	12,259
University of Pennsylvania	47.070	580447	—	46,189
University of Utah	47.070	10061946-JHU-03	—	72,554
Subtotal			<u>365,542</u>	<u>7,075,018</u>
Biological Sciences	47.074	Direct	—	4,732,502
Biological Sciences: COVID-19	47.074	Direct	—	119,825
Cary Institute of Ecosystem Studies	47.074	3392 200201974	—	7,551
Cold Spring Harbor Laboratory	47.074	52580213 PO920983SV	—	73,637
Cold Spring Harbor Laboratory	47.074	52670113/PO921029-SV	—	112,738
Drexel University	47.074	Subaward No. 920101	—	39,343
Penn State University	47.074	S000324-NSF	—	55,405
University of California Riverside	47.074	S-001214	—	11,458
University of California Santa Barbara	47.074	KK1986	—	92,038
University of Central Florida	47.074	Subaward 16406A46	—	10,095
University of Florida	47.074	SUB00002380	—	63,025
University of Georgia	47.074	RC284-652 S001173	—	7,079
University of Illinois Urbana Champaign	47.074	092829-17184	—	85,860
University of Texas at Austin	47.074	UTA20-000895	—	113,398
Subtotal			<u>—</u>	<u>5,523,954</u>
Social, Behavioral, and Economic Sciences	47.075	Direct	138,031	1,464,697
Georgetown University	47.075	AWD7774008-GR206528	—	3,881
New York University	47.075	F1659-01	—	32,900
NORC at the University of Chicago	47.075	G244, JHU.01	—	51,115
University of Delaware	47.075	59478	—	50,407
University of Maryland College Park	47.075	83891-Z3238201	—	8,584
University of Southern California: COVID-19	47.075	132262598	—	3,593
Subtotal			<u>138,031</u>	<u>1,615,177</u>
Education and Human Resources	47.076	Direct	80,798	5,282,010
Carnegie Institute for Science	47.076	05-10872-01	—	59,765
Morgan State University	47.076	MSU_JHU_25280	—	14,571
University of Wisconsin-Madison	47.076	782K482	—	6,354
Subtotal			<u>80,798</u>	<u>5,362,700</u>
Office of International Science and Engineering	47.079	Direct	22,586	168,445
CRDF Global	47.079	G-202105-67816	—	6,559
CRDF Global	47.079	G-OISE-20-66865-1	—	7,620
CRDF Global	47.079	OISE-9531011	—	31,430
CRDF Global	47.079	R-202108-68054	—	6,820
University of Maryland College Park	47.079	93601-Z3695201	—	32,516
University of Wisconsin-Madison	47.079	844	—	394,287
Subtotal			<u>22,586</u>	<u>647,677</u>
Vanderbilt University: Integrative Activities	47.083	UNIV61816	—	69,791
Vanderbilt University	47.083	UNIV62474	—	62,835
Subtotal			<u>—</u>	<u>132,626</u>
Southwest Research Institute: National Science Foundation	47.UNKNOW	N61275ZJ	—	115,721
University of Notre Dame	47.UNKNOW	JHU Grant	—	6,400
Subtotal			<u>—</u>	<u>122,121</u>
National Science Foundation Total – Other Divisions			<u>1,650,097</u>	<u>41,305,539</u>
Director of National Intelligence:				
Director of National Intelligence	54.UNKNOW	Direct	425,218	1,100,751
Systems and Technology Research	54.UNKNOW	2021-0041	—	357,385
University of Maryland College Park	54.UNKNOW	72860-Z9321203	—	(57,504)
Director of National Intelligence – Other Divisions			<u>425,218</u>	<u>1,400,632</u>
Department of Veteran Affairs:				
Department of Veteran Affairs	64.UNKNOW	Direct	—	48,544
Westat, Inc.	64.UNKNOW	8758-S01	—	36,697
Department of Veteran Affairs Total – Other Divisions			<u>—</u>	<u>85,241</u>
Environmental Protection Agency:				
Conference of Radiation Control Program: Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities Relating to the Clean Air Act	66.034	83924201	—	3,024
Science To Achieve Results (STAR) Research Program	66.509	Direct	—	691,969
University of Washington	66.509	UWSC10111	—	5,550
Yale University	66.509	GK000291(CON80000090	—	7,428
Yale University	66.509	GK000597(CON80000091	—	159,152
Yale University	66.509	GK000598(CON-8000009	—	1,029
Yale University	66.509	GK000599(CON-8000009	—	58,107
Subtotal			<u>—</u>	<u>923,255</u>
Office of Research and Development Consolidated Research/Training/Fellowships	66.511	Direct	—	103,704
University of Texas at Austin: Environmental Protection Agency	66.UNKNOW	UTAU-SUB00000360	—	228
Environmental Protection Agency Total – Other Divisions			<u>—</u>	<u>1,030,211</u>

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Department of Energy:				
Inventions and Innovations	81.036	Direct	\$ —	208,499
Office of Science Financial Assistance Program	81.049	Direct	1,189,143	6,500,062
Cornell University	81.049	140268-21384	—	205,555
Illinois Institute of Technology	81.049	SA22-0052-S001	—	117,126
Purdue University	81.049	14000459-025	—	168,295
University of Delaware	81.049	51427	—	143,307
University of New Mexico	81.049	889445-8727	—	145,036
Subtotal			1,189,143	7,279,381
University Coal Research	81.057	Direct	—	111,514
Renewable Energy Research and Development	81.087	Direct	105,386	301,674
Keystone Tower Systems	81.087	KTS NOWRDC 02	—	31,150
Subtotal			105,386	332,824
Stewardship Science Grant Program	81.112	Direct	—	507,764
University of Florida: Nuclear Energy Research, Development and Demonstration	81.121	SUB00002032	—	84,884
Advanced Research Projects Agency - Energy	81.135	Direct	731,557	2,578,979
Hight-Tech, LLC	81.135	DE-AR0001239	—	27,657
University of Maryland College Park	81.135	97787-Z7098202	—	55,459
Subtotal			731,557	2,662,095
Department of Energy	81.UNKNOW	Direct	—	618,743
Battelle Energy Alliance, LLC	81.UNKNOW	242797	—	88,927
Lawrence Livermore National Laboratory	81.UNKNOW	B646330	—	84,715
Northrop Grumman Corporation	81.UNKNOW	PO5300028021	—	451,178
SRI International	81.UNKNOW	PO55738	—	17,003
Subtotal			—	1,260,566
Department of Energy Total – Other Divisions			2,026,086	12,447,527
Department of Education:				
Foreign Language and Area Studies Fellowships Program	84.015B	Direct	—	229,915
Maryland Department of Education: Special Education-Grants to States	84.027	201831	—	70,619
Maryland Department of Education	84.027	201832	—	128,916
Maryland Department of Education	84.027	201833	—	157,649
Maryland Department of Education	84.027	201834	—	102,318
Maryland Department of Education	84.027	201846	—	390,117
Maryland Department of Education	84.027	210753	—	127
Maryland Department of Education	84.027	210772	—	(2)
Subtotal			—	849,744
Maryland Department of Education: State Grants—B	84.027A	220763	—	44,609
Maryland Department of Education	84.027A	220778	—	15,743
Maryland Department of Education	84.027A	220847	—	964,079
Maryland Department of Education	84.027A	220858	—	316,654
Maryland Department of Education	84.027A	220859	—	199,524
Superintendent of Public Instruction, State of Washington	84.027A	20220400	—	71,513
Subtotal			—	1,612,122
Maryland Department of Education: Special Education-Preschool Grants	84.173	210773	—	480
Maryland Department of Education	84.173A	220840	—	149,466
Maryland Department of Education	84.173A	220856	—	308,145
Subtotal			—	457,611
Maryland Department of Education: Individuals with Disabilities Education Act/American Rescue Plan Act of '21	84.181X	221265	—	496,880
Maryland Department of Education	84.181X	H181X210124	—	26,141
Subtotal			—	523,021
East Tennessee State University: Jacob K. Javits Gifted and Talented Student Education	84.206A	19-287-2-S4.1	—	49,122
Maryland Department of Education	84.206A	R00B9400018	—	50,063
Subtotal			—	99,185
United Way of Central Maryland: 21st Century Community Learning Centers	84.287C	211481	—	14,739
Success For All Foundation: Education Research, Development and Dissemination	84.305	90085091	—	51,910
Education Research, Development and Dissemination	84.305A	Direct	222,829	2,155,720
American University	84.305A	31653-A220008-S02	—	14,819
University of Virginia	84.305A	GM10149.150263	—	90,968
University of Virginia	84.305A	GM10179.PO #2192665	—	222,201
Subtotal			222,829	2,483,708
Tulane University: School Choice Policy Research Center	84.305C	TUL-SCC-556412-20/21	—	72,147
Westat, Inc.: Statistical and Research Methodology in Education	84.305D	6698-S-002	—	46,243
University of Virginia: Partnerships and Collaborations Focused on Problems of Practice or Policy	84.305H	GM10150.2389038	—	64,190
Mid-Atlantic Equity Consortium, Inc.: Statewide Family Engagement Centers	84.310	U310A190044	—	27,074
University of Connecticut: Special Education Transitioning to Middle School Successfully (TRAMSS)	84.324A	UCHC7-150050333	—	6,123
Texas A&M University: National Professional Development (NPD program)	84.365Z	02-S170225	—	12,818
Maryland Department of Education: Grants for State Assessments and Related Activities	84.369	220630	—	926,898
Kentucky State Dept. of Education: Comprehensive Literacy State Development	84.371C	PON2.540.2200000205	—	9,128
SRI International: National Technical Assistance Center to Improve State Capacity to Collect	84.373Z	H373Z190002	—	293,770
Texas A&M Research Foundation: Education Innovation and Research (formerly Investing in Innovation (I3) Fund)	84.411	AB0624949	—	134,405
Education Innovation and Research Grants – Mid-phase Grants	84.411B	Direct	—	740,362
Texas A&M University	84.411B	02-S170237	—	234,060
Subtotal			—	974,422
Texas A&M University: Supporting Effective Educator Development	84.423A	M1900428	—	25,000
District of Columbia Public Schools: Department of Education	84.UNKNOW	GAGA-2019-1-0096	—	18,045
District of Columbia Public Schools	84.UNKNOW	PO657304	—	31,784
Maryland Department of Education	84.UNKNOW	220857	—	153,896
Mathematica Policy Research, Inc.	84.UNKNOW	51091S06850	—	13,523
Mathematica Policy Research, Inc.	84.UNKNOW	51251S07785	—	5,897
University Of Hawaii	84.UNKNOW	90094929	—	129,070
Subtotal			—	352,215
Department of Education Total – Other Divisions			222,829	9,266,868
National Archives and Records Administration:				
National Archives and Records Administration	89.UNKNOW	Direct	—	8,646
National Archives and Records Administration Total – Other Divisions			—	8,646
Department of Health and Human Services:				
Global Health Crisis Coordination Center: National Organizations of State and Local Officials	93.011	VAT-JHU-01	—	48,903
Sexual Risk Avoidance Education	93.060	Direct	—	638,568
Colorado State University: Innovations in Applied Public Health Research	93.061	G-35345-01	—	38,216
Global AIDS	93.067	Direct	5,185,773	34,310,096
Global AIDS: COVID-19	93.067	Direct	—	204,432
BUMMHI	93.067	CDC-GH2232-002	—	766,909

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Cardno Emerging Markets USA, Ltd	93.067	4727-012-18-CR-01	\$ —	(719)
Centre for Infectious Disease Research	93.067	P358 6 NU2GGH002251-IU2GH001601-05	—	261,089
Christian Health Association of Malawi	93.067		—	1,429,257
Subtotal			<u>5,185,773</u>	<u>36,971,064</u>
Geisinger Health Systems: Prevent Blindness America: Chronic Diseases: Research, Control, and Prevention	93.068	61608101	—	209,010
Geisinger Health Systems	93.068	616081JHUSUP01	—	26,725
Subtotal			<u>—</u>	<u>235,735</u>
Birth Defects and Developmental Disabilities - Prevention and Surveillance	93.073	Direct	3,075	351,593
Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077	Direct	11,765	735,267
Portland State University	93.077	100081	—	29,559
University of Vermont	93.077	32359SUB2489	—	365,346
Virginia Commonwealth University	93.077	FP00006477 SA003	—	403,819
Subtotal			<u>11,765</u>	<u>1,533,991</u>
Prevention of Disease, Disability, and Death by Infectious Diseases	93.084	Direct	41,418	528,574
Prevention of Disease, Disability, and Death by Infectious Diseases : COVID-19	93.084	Direct	89,391	366,088
Center for Disease Dynamics, Economics & Policy	93.084	1849-01-JHH	—	6,867
Center for Disease Dynamics, Economics & Policy	93.084	1849-02-JHH	—	144,849
Center for Disease Dynamics, Economics & Policy	93.084	1870-01-JHH	—	30,703
Center for Disease Dynamics, Economics & Policy	93.084	1870-02-JHH	—	48,876
Duke University	93.084	A035591	—	4,299
Massachusetts General Hospital	93.084	U01CK000633	—	13,581
University at Albany – State University of New York	93.084	1170701-4-92448	—	162,810
University at Albany – State University of New York	93.084	5-93075	—	14,231
University of Maryland Baltimore	93.084	1902999	—	63
Subtotal			<u>130,809</u>	<u>1,320,941</u>
Healthy Marriage Promotion and Responsible Fatherhood Grants	93.086	Direct	—	857,975
Food and Drug Administration Research	93.103	Direct	859,243	2,885,523
Children's National Hospital	93.103	30006053	—	4,192
Critical Path Institute	93.103	2U18FD005320	—	263,051
Duke University	93.103	203-7987	—	(1,837)
Health and Environmental Sciences Institute	93.103	HESI-JHU-20210719	—	55,000
Michigan Technological University	93.103	210501921	—	72,338
New York Medical College	93.103	12005	—	8,032
New York Medical College	93.103	123900	—	10,535
University of Florida	93.103	SUB00002940	—	128,418
University of Kansas Medical Center	93.103	ZAD00000	—	25,348
University of Rochester	93.103	416948-G URFAOGR5105	—	26,421
University of Rochester	93.103	SUB00000204/UR	—	53,743
Subtotal			<u>859,243</u>	<u>3,530,764</u>
Maternal and Child Health Federal Consolidated Programs	93.110	Direct	1,133,864	3,840,264
Ferre Institute	93.110	6017-06	—	42,936
Michigan Public Health Institute	93.110	Q-38847-115-504200	—	18,735
Michigan Public Health Institute	93.110	UH7MC30775	—	4,000
Rutgers University	93.110	827955	—	52,981
University Hospitals Cleveland Medical Center	93.110	1U11MC43532-01-00	—	8,276
Subtotal			<u>1,133,864</u>	<u>3,967,192</u>
Environmental Health	93.113	Direct	1,787,975	8,050,037
Campbell University	93.113	88098-01	—	27,952
Columbia University	93.113	2(GG013047)	—	39,766
Drexel University	93.113	900159	—	33,933
ICAHN School of Medicine at Mount Sinai	93.113	0255-F311-4809	—	4,673
Penn State University	93.113	S000445-NIH	—	28,242
Rutgers University	93.113	686	—	1,390
University of California Davis	93.113	A20-1849-S002	—	26,287
University of California Los Angeles	93.113	1925 G WA084	—	90,417
University of New Mexico	93.113	3RLU4	—	9,843
University of North Carolina	93.113	5112186	—	77,568
University of Wisconsin-Madison	93.113	173405329 14AAC2354	—	40,419
Virginia Polytechnic Institute and State University	93.113	412608-19446	—	115,058
Subtotal			<u>1,787,975</u>	<u>8,545,585</u>
Baltimore City Health Department: Project Grants and Cooperative Agreements for Tuberculosis Control Programs	93.116	39834	—	4,464
Baltimore City Health Department	93.116	40490	—	75,964
State of Maryland	93.116	PHPA 18-320	—	73,610
Subtotal			<u>—</u>	<u>154,038</u>
Oral Diseases and Disorders Research	93.121	Direct	57,340	3,959,045
University of California Los Angeles	93.121	1350 G YB753	—	40,802
University of Iowa	93.121	S01428-01	—	26,085
University of Maryland Baltimore	93.121	4920	—	89,565
University of Maryland Baltimore	93.121	3001118	—	160,114
University of Maryland Baltimore	93.121	SR00005677	—	19,691
University of Utah	93.121	1R01DE027493-01	—	13,502
Subtotal			<u>57,340</u>	<u>4,308,804</u>
Nurse Anesthetist Traineeship	93.124	Direct	—	8,000
Grants to Increase Organ Donations	93.134	Direct	9,244	47,873
Centers for Research and Demonstration for Health Promotion and Disease Prevention	93.135	Direct	128,512	836,910
University of California San Francisco	93.135	U48DP006374	—	50
Subtotal			<u>128,512</u>	<u>836,960</u>
Injury Prevention and Control Research and State and Community Based Programs	93.136	Direct	17,078	3,014,197
Maryland Department of Health	93.136	90093915	—	51,183
Maryland Department of Health	93.136	BPM020865	25,927	517,312
Maryland Department of Health	93.136	NU17CE924831-05-00	—	7,406
Maryland Department of Health	93.136	PHPA-1238	—	11,391
Maryland Department of Health	93.136	PHPA-1259	—	10,637
Subtotal			<u>43,005</u>	<u>3,612,126</u>
Community Programs to Improve Minority Health Grant Program	93.137	Direct	—	28,932
University of Maryland Baltimore	93.137	F303770-1	—	58,083
Subtotal			<u>—</u>	<u>87,015</u>
NIEHS Superfund Hazardous Substances_Basic Research and Education	93.143	Direct	—	82,286
Coordinated Services and Access to Research for Women, Infants, Children, and Youth	93.153	Direct	224,784	884,348
Coordinated Services and Access to Research for Women, Infants, Children, and Youth: COVID-19	93.153	Direct	263	(424)
Subtotal			<u>225,047</u>	<u>883,924</u>

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Human Genome Research	93.172	Direct	\$ 2,456,107	12,089,929
Baylor University	93.172	7000001533	—	9,792
Circulomics, Inc.	93.172	#SC10011	—	(6,348)
Columbia University	93.172	1(GG016389-01)	—	3,725
Jackson Laboratory	93.172	210354-0821-02	—	160,254
JBS Science, Inc.	93.172	2R44HG008700-02	—	2,413
Massachusetts General Hospital	93.172	239109	—	69,543
Oregon State University	93.172	P0519A-A	—	(31,047)
Penn State University	93.172	S001701-DHHS	—	755,759
Stanford University	93.172	62438888-126378	—	12,236
Stanford University	93.172	62714773-207670	—	40,687
University of Colorado	93.172	FY22.1126.014	—	133,179
University of North Carolina	93.172	5121618	—	89,513
University of Utah	93.172	10059581-JHU	—	25,617
Subtotal			<u>2,456,107</u>	<u>13,355,252</u>
Research Related to Deafness and Communication Disorders	93.173	Direct	409,061	14,889,532
Albert Einstein College of Medicine	93.173	Sub Award No. 310159	—	869
American Cochlear Implant Alliance	93.173	R01DC004797	—	256
Blue Marble Health Company	93.173	6245-Sub-02	—	18,694
Columbia University	93.173	1(GG012006-01)	—	278,494
Indiana University	93.173	9266_JHU	—	34,918
Jackson Laboratory	93.173	1R01DC018304	—	180,041
Massachusetts General Hospital	93.173	236539	—	13,509
MedStar Georgetown University Medical Center	93.173	412727 GR112512-JHU	—	121,445
Monell Chemical Senses Center	93.173	NIH057A01RE/SE	—	30,609
Oregon Health Sciences University	93.173	1006837 JHU	—	11,625
University Medical Center Utrecht	93.173	1U01DC016686-01-1	—	209,811
University of Buffalo	93.173	R1062080	—	33,909
University of Buffalo	93.173	R1129334	—	372,150
University of South Carolina	93.173	16-3086	—	(1,799)
University of South Carolina	93.173	16-3087	—	(19,247)
University of South Carolina	93.173	21-4427	—	32,418
University of South Carolina	93.173	21-4430	—	363,457
University of Southern California	93.173	137503754	—	54,175
Subtotal			<u>409,061</u>	<u>16,624,866</u>
Immunization Research, Demonstration, Public Information and Education Training and Clinical Skills Improvement Projects	93.185	Direct	208,882	519,926
Immunization Research, Demonstration, Public Information and Education Training and Clinical Skills Improvement Projects: COVID-19	93.185	Direct	192,455	1,520,099
American College of Physicians	93.185	90092858	—	(6,810)
University of Massachusetts	93.185	20-015175 B01	—	5,025
Subtotal			<u>401,337</u>	<u>2,038,240</u>
University of New Mexico: Urban Indian Health Services	93.193	3RJ60	—	721
Research and Training in Complementary and Integrative Health	93.213	Direct	95,639	667,328
Duke Clinical Research Institute	93.213	A03-36990	—	3,644
Duke Clinical Research Institute	93.213	A03-5390	—	36,904
Duke Clinical Research Institute	93.213	A03-5521	—	84,517
Duke University	93.213	A03-2239	—	187,019
Penn State University	93.213	S002278-DHHS	—	177,109
University of Arizona	93.213	495659	—	13,156
University of California Los Angeles	93.213	2000 G X0331	—	41,342
University of Florida	93.213	SU800002490	—	(1)
University of Maryland Baltimore	93.213	20294-0211	—	76,139
University of Texas Health Science Center at Houston	93.213	SA0001174	—	21,482
Washington State University	93.213	132416 SPC003701	—	263,060
Yale University	93.213	GR104245(CON80001407	—	21,377
Subtotal			<u>95,639</u>	<u>1,593,076</u>
National Research Service Awards Health Services Research Training	93.225	Direct	—	497,604
Research on Healthcare Costs, Quality and Outcomes	93.226	Direct	512,496	3,626,621
Albert Einstein Medical Center	93.226	P0770307	—	(2,739)
Children's Hospital Los Angeles	93.226	000013257-D	—	12,224
Columbia University	93.226	2(GG011859-04)	—	9,260
Columbia University	93.226	GG011641-01	—	92,988
Cornell University	93.226	83742-11051	—	44,019
Medical University of South Carolina	93.226	A00-3876-S002	—	164,466
University of Colorado Denver	93.226	FY21.1073.004	—	26,079
University of Texas at Arlington	93.226	2019GC0498	—	79,243
University of Texas at Arlington	93.226	2019GC0498S	—	30,729
Vanderbilt University	93.226	VUMC73246	—	108,430
Subtotal			<u>512,496</u>	<u>4,191,330</u>
National Center on Sleep Disorders Research	93.233	Direct	534,979	4,627,084
University of Chicago	93.233	AWD068975-01-PR (SUB	—	82,859
University of Pennsylvania	93.233	580871	—	146,142
Subtotal			<u>534,979</u>	<u>4,856,085</u>
Mental Health Research Grants	93.242	Direct	5,103,527	35,856,873
Mental Health Research Grants: COVID-19	93.242	Direct	—	277,167
AnatomyWorks, LLC	93.242	R44MH101071	—	37,030
Boston University	93.242	4500003537	—	145,772
Brigham and Women's Hospital	93.242	Agreement No 117614	—	30,606
Brown University	93.242	1447	—	67,099
Brown University	93.242	1578	—	44,017
Brown University	93.242	7147135LTD	—	1,614
California Institute of Technology	93.242	S445486	—	9,040
Centre for Infectious Disease Research	93.242	M101S12F04	—	173,006
Child Mind Institute	93.242	JHU128696	—	36,918
Cleveland Clinic Foundation	93.242	CCF21373137	—	27,130
Cold Spring Harbor Laboratory	93.242	64580125	—	49,800
Cold Spring Harbor Laboratory	93.242	6500113-PO#921085-SV	—	31,726
Dartmouth College	93.242	R1010	—	81,229
Duke University	93.242	303000315	—	2,396
George Washington University	93.242	20-M63	—	(6,690)
Kennedy Krieger Institute	93.242	113191-0722-01	—	48,945
Kennedy Krieger Institute	93.242	113318-0720-01	—	10,549
King's College London	93.242	RE16210	—	7,875
Lieber Institute for Brain Development	93.242	A806	—	86,429
Lieber Institute for Brain Development	93.242	PO2229	—	32,024
Lieber Institute for Brain Development	93.242	R01MN123183	—	62,738
Massachusetts General Hospital	93.242	230747	—	36,649
Massachusetts Institute of Technology	93.242	S4949, PO# 408872	—	237,138
Medical University of South Carolina	93.242	A21-0315-S001	—	118,675
Nationwide Children's Hospital	93.242	700172-0522-00	—	23,000

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
New York Blood Center, Inc.	93.242	NYB1009074	\$ —	31,585
New York University	93.242	F1415-03	—	60,542
Research Foundation of SUNY	93.242	100-1172786-93398	—	1,768
Rhode Island Hospital	93.242	7137547	—	37,976
Texas A&M Research Foundation	93.242	M2102192	—	30,602
University of Alabama at Birmingham	93.242	000523237-001	—	46,570
University of Alabama at Birmingham	93.242	000524854-SC001	—	160
University of Alabama at Birmingham	93.242	523279-0	—	15,824
University of Buffalo	93.242	R1229057	—	38,686
University of California Los Angeles	93.242	2000 G WD207	—	194,438
University of California San Diego	93.242	703636	—	354,549
University of California San Diego	93.242	67410379	—	17,797
University of California San Francisco	93.242	130176c	—	14,803
University of Colorado Denver	93.242	Subaward 20.524.001	—	46,300
University of Liverpool	93.242	U19MH109998	—	4,952
University of Maryland Baltimore	93.242	1701927	—	195,244
University of Maryland Baltimore	93.242	1802161	—	(11,145)
University of Maryland Baltimore	93.242	3000027	—	(542)
University of Maryland Medical System	93.242	3001271	—	215,731
University of Pennsylvania	93.242	575811	—	68,835
University of Pennsylvania	93.242	582682	—	11,155
University of Pennsylvania	93.242	Sub Award No 576948	—	40,031
Washington University	93.242	WU-20-419-MOD-2	—	111,964
Washington University	93.242	WU-21-15	—	60,927
Wayne State University	93.242	WSU19059-A3	—	(7,268)
Yale University	93.242	CON-80003043 (GR1126)	—	11,762
Subtotal			<u>5,103,527</u>	<u>39,142,001</u>
Substance Abuse and Mental Health Services Projects of Regional and National Significance	93.243	Direct	55,079	1,815,580
Cherokee Nation	93.243	252758	—	30,881
Red Lake Nation Tribal Council	93.243	H79T084461	—	10,484
University of Maryland Baltimore	93.243	1903378	—	75,503
University of Maryland Baltimore	93.243	3003215	—	140,524
Subtotal			<u>55,079</u>	<u>2,072,972</u>
Occupational Safety and Health Program	93.262	Direct	—	361,987
Occupational Safety and Health Program: COVID-19	93.262	Direct	—	334,715
Bassett Medical Center	93.262	5U540H007542 JHU5	—	1,194
ICAHN School of Medicine at Mount Sinai	93.262	0254-9081-4609	—	113,667
Oregon Health Sciences University	93.262	1008844 JHU	—	7,160
Subtotal			<u>—</u>	<u>818,723</u>
Health Systems Strengthening and HIV/AIDS Prevention, Care and Treatment under the President's Emergency Plan for AIDS Relief	93.266	Direct	13,548,306	19,094,772
University of Washington	93.266	UWSC13567	—	48,340
Subtotal			<u>13,548,306</u>	<u>19,143,112</u>
Baltimore City Health Department: Immunization Cooperative Agreements	93.268	9009969	—	11,014
Alcohol Research Programs	93.273	Direct	202,774	5,699,584
Harvard Medical School	93.273	150552.5117592.0003	—	135,028
Partnership to End Addiction	93.273	R34AA028407	—	26,625
Rhode Island Hospital	93.273	7017137290	—	34,225
Therapy Fibrosis, LLC	93.273	U44 AA026111	—	89,391
University of Alabama at Birmingham	93.273	000530477-SP0005-SCO	—	5,578
University of Alabama at Birmingham	93.273	Sub 000512064-002	—	56,550
University of Washington	93.273	UWSC9479	—	80,576
Subtotal			<u>202,774</u>	<u>6,127,557</u>
Drug Abuse and Addiction Research Programs	93.279	Direct	5,137,767	34,476,600
Drug Abuse and Addiction Research Programs: COVID-19	93.279	Direct	—	171,053
American Academy of Child and Adolescent Psychiatry	93.279	K12DA000357	—	140,778
Columbia University	93.279	2(GG011992-01)	—	19,789
Denver Health and Hospital Authority	93.279	A19-0001-S0004	—	98,689
Emory University	93.279	T996182	—	20,753
Friends Research Institute	93.279	11381	—	82,118
Hennepin Healthcare Research Institute	93.279	15312-3	—	281,650
High Point University	93.279	A21-0008-S002	—	12,891
Kaiser Foundation Research Institute	93.279	JHU-00S00297	—	(1,741)
Kissho Media LLC	93.279	An Adaptive Learning	—	4,215
Medical College of Wisconsin	93.279	R01DA044971	—	15,986
New York University	93.279	2E+11	—	85,292
New York University	93.279	20-A0-S1-003671	—	21,306
New York University	93.279	20-A0-S2-003671	—	28,062
New York University	93.279	20A0S3003671	—	23,266
Rand Corporation	93.279	SCON-00000117	—	34,574
Rand Corporation	93.279	SCON-00000132	—	66,265
Research Triangle Institute	93.279	4-340-0216061-65660L	—	345,677
Simon Fraser University	93.279	GTR26399	—	43,728
University of California Los Angeles	93.279	1935 G YA098	—	64,525
University of California San Diego	93.279	KR 704996	—	29,998
University of California San Francisco	93.279	11802sc	—	19,373
University of Illinois	93.279	16641	—	35,273
University of Maryland Baltimore	93.279	U01DA040325	—	81,908
University of Minnesota	93.279	D007614703	—	21,052
University of Nebraska Medical Center	93.279	34-2005-2087-001	—	120,126
University of North Carolina	93.279	5111928	—	86,690
University of North Carolina	93.279	5112083	—	74,828
University of Pennsylvania	93.279	Subaward No. 583523	—	136,497
University of Utah	93.279	10058454-02	—	71,635
Yale University	93.279	GR106387 (CON-800017	—	7,412
Yale University	93.279	GR106588(CON-8000181	—	251,585
Yale University	93.279	GR109724 (CON-800026	—	213,591
Subtotal			<u>5,137,767</u>	<u>37,184,414</u>
Centers for Disease Control and Prevention Investigations and Technical Assistance	93.283	Direct	152,346	658,622
The Task Force for Global Health	93.283	4186	—	30,246
Subtotal			<u>152,346</u>	<u>688,868</u>
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286	Direct	1,713,729	14,286,396
Discovery and Applied Research for Technological Innovations to Improve Human Health: COVID-19	93.286	Direct	30,871	823,366
Brigham and Women's Hospital	93.286	125258	—	286,804
Children's National Hospital	93.286	30003690-01	—	(3,057)
Children's National Hospital	93.286	30004680-02	—	104,215
Clear Guide Medical, LLC	93.286	JHU-21-001	—	73,502
Indiana University	93.286	BL4633300JHU	—	38,772
Kennedy Krieger Institute	93.286	110156-0621-03B	—	33,933
Kennedy Krieger Institute	93.286	110156-0817-02B	—	58,017

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Kennedy Krieger Institute	93.286	113455-0422-02B	\$ —	176,205
Kennedy Krieger Institute	93.286	113455-0422-03B	—	31,890
Kennedy Krieger Institute	93.286	R21EB030009	—	10,856
Kitware, Inc.	93.286	K001848-00-S04	—	(10,735)
Massachusetts Institute of Technology	93.286	121238	—	88,764
Mayo Clinic	93.286	JOH-282770	—	14,150
Optosurgical, LLC	93.286	JHU-001	—	75,955
University of California San Francisco	93.286	10956sc	—	186,808
University of California Santa Barbara	93.286	KK1867	—	92,326
University of Maryland Baltimore	93.286	1903693	—	10,697
University of Massachusetts	93.286	OSP/WPM33765-JHU	—	1,437,557
University of Pennsylvania	93.286	R01EB030494	—	57,895
University of Pittsburgh	93.286	AWD00001271 (133816-	—	183,668
University of Virginia	93.286	GB10132 148547	—	1,448
University of Virginia	93.286	GB10952.PO#2387616	—	182,658
Subtotal			<u>1,744,600</u>	<u>18,242,090</u>
Teenage Pregnancy Prevention Program	93.297	Direct	—	111,996
Baltimore City Health Department	93.297	39978	—	29,464
Baltimore City Health Department	93.297	40226	—	130,107
Baltimore City Health Department	93.297	40256	—	64,802
Baltimore City Health Department	93.297	CO #39946	—	(2,802)
Baltimore City Health Department	93.297	CO# 39871	—	8,255
Maryland Department of Health	93.297	90092237	—	1,034
Maryland Department of Health	93.297	90095128	—	164,495
Maryland Department of Health	93.297	M00B2600274	—	39,401
Subtotal			—	<u>546,752</u>
Minority Health and Health Disparities Research	93.307	Direct	414,411	6,548,410
Brigham and Women's Hospital	93.307	AgmtRef.#19569	—	39,150
Emocha Mobile Health, Inc.	93.307	2R44MD010521	—	121,363
George Washington University	93.307	18-M18	—	19,199
Koronis Biomedical Technologies	93.307	R44MD010177	—	5,839
Lifegene Biomarks, Inc.	93.307	R44MD014911	—	279,466
North Carolina State University	93.307	2017-1593-03	—	26,782
Radect, Inc.	93.307	R44MD014095	—	43,554
University of Alabama at Birmingham	93.307	000520840-002	—	41,089
University of Memphis	93.307	A21-0157-S001	—	4,696
University of North Carolina	93.307	5112763	—	50,781
University of North Carolina	93.307	5122979	—	25,507
University of Pittsburgh	93.307	47269 (127145-4)	—	16,866
University of Virginia	93.307	GB10668.PO#2392578	—	66,561
Yale University	93.307	CON-80003342 (GR1147	—	21,866
Subtotal			<u>414,411</u>	<u>7,315,129</u>
Trans-NIH Research Support	93.310	Direct	11,510,381	31,319,872
Trans-NIH Research Support: COVID-19	93.310	Direct	766,144	5,994,540
Brandeis University	93.310	404196JHU	—	40,359
Drexel University	93.310	900094	—	457,191
Duke University	93.310	A03-5083	—	29,559
Duke University	93.310	A03-5276	—	29,623
Duke University	93.310	A03-5277	—	45,531
Kaiser Permanente	93.310	RN209773-JHU-1	—	23,846
Makerere University	93.310	MakCHS112021	—	12,361
Morgan State University	93.310	MSUJHU897206	—	40,055
New York Genome Center	93.310	2021-0023_JHU_01	—	207,513
Purdue University	93.310	11000549-019	—	194,622
Rhode Island Hospital	93.310	7137538	—	226,028
Tulane University	93.310	TUL-HSC-559853-21/22	—	21,754
University of California San Diego	93.310	126035730	—	40,408
University of California San Francisco	93.310	12240sc	—	48,153
University of North Carolina	93.310	5122407	—	11,009
University of North Texas	93.310	RF00250-2022-0036	—	139,863
University of Wisconsin-Madison	93.310	1630	—	317,561
Worcester Polytechnic Institute	93.310	10620-GR	—	33,710
Xavier University of Louisiana	93.310	21-211386-000	—	43,217
Subtotal			<u>12,276,525</u>	<u>38,876,775</u>
Maryland Department of Health: Emerging Infections Programs	93.317	NU50CH000487	195,278	579,118
Maryland Department of Health	93.317	PHPA-1752	—	433,331
Maryland Department of Health	93.317	PHPA-G1004	—	(368)
Subtotal			<u>195,278</u>	<u>1,012,081</u>
Protecting and Improving Health Globally: Building and Strengthening Public Health Impact, Systems, Capacity and Security	93.318	Direct	3,032,758	8,128,533
Protecting and Improving Health Globally: Building and Strengthening Public Health Impact, Systems, Capacity and Security: COVID-19	93.318	Direct	55,603	5,051,157
CDC Foundation	93.318	NU2GGH001758	97,550	383,566
Global Scientific Solutions for Health, LLC	93.318	154	—	10,456
The Task Force for Global Health	93.318	PO #4104	—	190,156
Subtotal			<u>3,185,911</u>	<u>13,763,868</u>
Baltimore City Health Department: Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)	93.323	IWTK-MD	—	(135)
University of Virginia: Strengthening Public Health through Surveillance, Epidemiologic Research, Disease Detection and Prevention	93.326	GB10985.PO#2372750	—	54,099
University of Minnesota: The Healthy Brain Initiative: Technical Assistance to Implement Public Health Actions related to Cognitive Health, Cognitive Impairment, and Caregiving at the State and Local Levels	93.334	P008703953	—	7,922
National Center for Advancing Translational Sciences	93.350	Direct	3,304,105	21,886,468
National Center for Advancing Translational Sciences: COVID-19	93.350	Direct	211,098	247,380
Duke Clinical Research Institute	93.350	203-7564	—	1,860
Duke University	93.350	A034559: 266338	—	24,510
Duke University	93.350	subaward 203-8371	—	22,626
Mayo Clinic	93.350	236019 PO 65746848	—	(152)
New York University	93.350	UL1TR001445	—	(10,150)
Oregon Health Sciences University	93.350	1011902_JHU	20,336	91,769
Oregon Health Sciences University	93.350	1011902-001_JHU	9,219	31,649
Oregon Health Sciences University	93.350	1011902-002_JHU	172,259	200,025
Oregon Health Sciences University	93.350	1011902-003_JHU	239,039	293,261
Rockefeller University	93.350	SUB00000119	—	75,812
University of Colorado	93.350	FY22.1126.005	—	534,477
University of Washington	93.350	UWSC12649	—	34,034
Subtotal			<u>3,956,056</u>	<u>23,433,569</u>
Research Infrastructure Programs	93.351	Direct	—	2,976,338
21st Century Cures Act - Beau Biden Cancer Moonshot	93.353	Direct	97,398	671,142
Children's Hospital of Philadelphia	93.353	3201420821-S2	—	14,009

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Children's Research Institute	93.353	30004929-02	\$ —	170,963
Vanderbilt University Medical Center	93.353	VUMC69196	—	103,163
Subtotal			97,398	959,277
Biomedical Advanced Research and Development Authority (BARDA), Biodefense Medical Countermeasure				
Development	93.360	Direct	74,013	158,847
Nursing Research	93.361	Direct	180,654	3,366,444
Massachusetts General Hospital	93.361	233238	12,474	91,677
University of California San Francisco	93.361	11807sc	—	63,967
University of Colorado Denver	93.361	FY21.105.008	—	31,522
University of Virginia	93.361	GB10397 154429	—	8,714
Subtotal			193,128	3,562,324
Sickle Cell Treatment Demonstration Program	93.365	Direct	503,657	1,057,996
Atrium Health	93.365	3000301054 (A17-0142)	—	2,411
University of Miami	93.365	SPC-001682	—	3,055
Subtotal			503,657	1,063,462
Baylor College of Medicine: 21st Century Cures Act – Precision Medicine Initiative	93.368	10T202002751	—	1,861,368
Multiple Approaches to Support Young Breast Cancer Survivors and Metastatic Breast Cancer Patients	93.376	Direct	—	370,902
Cancer Cause and Prevention Research	93.393	Direct	702,446	7,162,083
Albert Einstein College of Medicine	93.393	310924	—	4,590
Duke University Medical School	93.393	1R01CA235677-01A1	—	105,698
Emory University	93.393	A289285	—	32,004
Fred Hutchinson Cancer Research Center	93.393	1034045	—	72,948
Fred Hutchinson Cancer Research Center	93.393	1044609	—	45,371
Fred Hutchinson Cancer Research Center	93.393	1079160	—	109,170
Harvard University	93.393	117343-5113759	—	237,166
International Agency for Research on Cancer	93.393	CRA/CEP/2018/8	—	7,083
Missouri Western State University	93.393	C00066431	—	(27,937)
New York University	93.393	17-A1-00-007671-01	—	17,814
Northwestern University	93.393	60047262 JHU	—	17,909
Tufts Medical Center	93.393	102732-00001_Platz	—	22,422
University of Alabama at Birmingham	93.393	000514642-SP007-SC00	—	19,100
University of California San Diego	93.393	85277827	—	12,781
University of California San Francisco	93.393	10605sc	—	2,486
University of California San Francisco	93.393	11873sc	—	13,189
University of Delaware	93.393	57655	—	17,637
University of Maryland Baltimore	93.393	1903427 Request:3841	—	13,453
University of Massachusetts	93.393	PO # WA00998714	—	76,872
University of Pittsburgh	93.393	0054634 (130609-1)	—	136,878
University of Southern California	93.393	109644168	—	371,990
University of Virginia	93.393	GB10470.PO #2271790	—	62,864
Washington University	93.393	WU-22-0188	—	48,021
Wayne State University	93.393	WSU16045	—	6,937
White Mountain Apache Tribe	93.393	NARCH XI - Adm. Core	—	8,458
White Mountain Apache Tribe	93.393	NARCH XI - Bright	—	63,429
White Mountain Apache Tribe	93.393	NARCH XI - Cancer	—	46,405
White Mountain Apache Tribe	93.393	NARCH XI - Staph	—	121,674
Subtotal			702,446	8,828,495
Cancer Detection and Diagnosis Research	93.394	Direct	1,082,076	14,195,542
Cancer Detection and Diagnosis Research: COVID-19	93.394	Direct	—	2,568,699
Baruch Blumberg Institute	93.394	2027692	—	(1,268)
Brigham and Women's Hospital	93.394	121759	—	147,007
Children's National Hospital	93.394	30005822-01	—	116,571
Fred Hutchinson Cancer Research Center	93.394	1041240	—	53,836
Georgetown University	93.394	424470_GR411508-JHU	—	12,336
Georgia Institute of Technology	93.394	AWD-001339-G1	—	4,417
JBS Science, Inc.	93.394	R44CA165312-JHU	—	(805)
Lifegene Biomarks, Inc.	93.394	R44CA254690	—	21,320
Malcova, LLC	93.394	1R43CA261381-01	—	76,693
Massachusetts General Hospital	93.394	231399	—	3,278
Mayo Clinic	93.394	JOH237854P07829276	—	167,519
Michigan State University	93.394	RC111649A	—	29,239
Oncospace, Inc.	93.394	R43CA254559	—	25,412
Research Foundation of the City University of New York	93.394	CM00005556-00	—	35,999
Tulane University	93.394	TUL-SCC-556459-18 19	—	24,875
University of Alabama at Birmingham	93.394	000527768-SC001	—	6,462
University of Arkansas	93.394	UA2020-133	—	72,067
University of Arkansas for Medical Sciences	93.394	FP 52867	—	77,656
University of California Los Angeles	93.394	1350 G WE901	—	9,913
University of California San Diego	93.394	120941031	—	69,377
University of California San Diego	93.394	123035339	—	148,368
University of Michigan	93.394	3003733685	—	(18,478)
University of Pittsburgh	93.394	00047722 (136057-1)	—	111,142
University of Pittsburgh	93.394	AWD00003372 (135537-	—	114,126
University of Pittsburgh	93.394	CNVA00054040(135237-	—	113,417
University of South Florida	93.394	1257-1022-00-B	—	25,683
University of Texas at Galveston	93.394	20-84918-01	—	70,955
University of Texas San Antonio	93.394	Subaward No. 168995	—	8,589
University of Virginia	93.394	GB10140-149265	—	(11)
Vanderbilt University Medical Center	93.394	VUMC76160	—	38,621
Subtotal			1,082,076	18,328,557
Cancer Treatment Research	93.395	Direct	3,182,438	19,839,509
Albert Einstein College of Medicine	93.395	312056	—	29,080
American College of Radiology	93.395	1805	—	72,356
Asclepix Therapeutics, LLC	93.395	Immunoactivating Pep	—	33,457
Children's Hospital of Philadelphia	93.395	2U10CA180886	—	(2,310)
Children's Hospital of Philadelphia	93.395	9500080220-XX	—	(37)
Children's Hospital of Philadelphia	93.395	U10CA180886	—	90,297
Eastern Cooperative Oncology Group	93.395	U10CA180820-01-JHU3	—	4,952
Ecog-Acrin Cancer Research Group	93.395	U01CA180820-06-JHU3C	—	13,363
Ecog-Acrin Cancer Research Group	93.395	U10CA180820-01-JHU1	—	20,200
Ecog-Acrin Cancer Research Group	93.395	U10CA180820-06-JHU1C	—	20,202
Emmes Corporation	93.395	13765	—	251,482
Emory University	93.395	A101982	—	167,769
Emory University	93.395	A311479	—	177,228
ICAHN School of Medicine at Mount Sinai	93.395	0255-C921-4609	—	559,566
Kubanda Cryotherapy, LLC	93.395	1R43CA261360-01A	—	37,050
NRG Oncology	93.395	NCTN Armstrong	—	7,328
NRG Oncology	93.395	NCTN05-Gaillard	—	9,334
NRG Oncology	93.395	NRG-Wenzel-GY8	—	13,089
OncoSTING, LLC	93.395	R44CA261506	—	65,805
Oregon Health Sciences University	93.395	1013080 JHU	—	61,706
Oregon Health Sciences University	93.395	1019207 JHU	—	36,436
Public Health Institute	93.395	AR03345	—	55,815

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Public Health Institute	93.395	AR03403	\$ —	20,260
Public Health Institute	93.395	AR30448	—	8,010
Sonoval LLC	93.395	1R44CA254764-01A1	—	93,631
Stanford University	93.395	62098893-135189	—	66,952
Stanford University	93.395	62713845-206294	—	41,963
Stanford University	93.395	62820123-209745	—	12,050
University of Arizona	93.395	603525	—	69,151
University of California Los Angeles	93.395	1568 G TA827	—	(5,052)
University of California Los Angeles	93.395	1916 G UA065	—	22,679
University of Illinois	93.395	092530-17140	—	62,090
University of Nebraska Medical Center	93.395	34-2005-2092-201	—	280,106
University of Pittsburgh	93.395	AWD00003661135733-1	—	48,090
University of Texas Southwestern Medical Center	93.395	SUB202107-0078	—	15,416
University of Washington	93.395	UJWSC11396	—	88,759
Washington University	93.395	wu19393	—	94,426
Washington University	93.395	WU-21-109	—	109,174
Weill Medical College of Cornell University	93.395	213607-2	—	14,892
Weill Medical College of Cornell University	93.395	Subaward 194621-4	—	68,972
Wistar Institute	93.395	24927-12-314 Admin C	—	21,615
Wistar Institute	93.395	24928-01-314, Projec	—	232,828
Subtotal			3,182,438	22,899,709
Cancer Biology Research	93.396	Direct	690,277	11,567,950
Arizona State University	93.396	ASUB00000498	—	148,162
Broad Institute	93.396	5012118-5500001202	—	82,134
Cedars-Sinai Medical Center	93.396	1757859	—	37,690
Cincinnati Children's Hospital Medical Center	93.396	313686	—	93,447
Cornell University	93.396	214068	—	30,797
Oregon Health Sciences University	93.396	1013137_JHU	—	188,325
Oregon Health Sciences University	93.396	1014823_JHU	—	22,021
University of California Berkeley	93.396	9159	—	(6,517)
University of California Los Angeles	93.396	0125 G ZA931	—	9,737
University of Cincinnati	93.396	013155-002	—	30,466
University of Colorado Denver	93.396	FY22.1124.002	—	54,839
University of Michigan	93.396	SUBK00011358	6,219	78,548
University of Pennsylvania	93.396	579553	—	200,407
Vanderbilt University Medical Center	93.396	VUMC85613	—	10,521
Wistar Institute	93.396	25221-03-356	—	1,162
Subtotal			696,496	12,549,679
Cancer Centers Support Grants	93.397	Direct	1,953,595	16,745,535
Baylor College of Medicine	93.397	7000001524	—	5,000
Baylor College of Medicine	93.397	PO7000001574	—	32,658
Case Western Reserve University	93.397	RES512157	—	44,030
Coriell Institute for Medical Research	93.397	A22-0002-S001	—	185,853
Coriell Institute for Medical Research	93.397	A22-0002-S011	—	35,503
Indiana University	93.397	IN4689661JHU	—	(41)
Indiana University School of Medicine	93.397	9146	—	15,557
Indiana University School of Medicine	93.397	9151	—	4,288
Indiana University School of Medicine	93.397	9153	—	4,288
MD Anderson Cancer Center	93.397	5004	—	1,829
MD Anderson Cancer Center	93.397	3001458667	—	68,567
Research Foundation of the City University of New York	93.397	CM00007479	—	7,289
University of Kentucky	93.397	3210001063-19-073	—	7,322
Washington University	93.397	WU-19-47	—	(49,864)
Subtotal			1,953,595	17,107,814
Cancer Research Manpower	93.398	Direct	18,844	5,411,027
Cancer Control	93.399	Direct	—	711,891
Children's Hospital of Philadelphia	93.399	FP00034905 SUB48_01	—	1,239
Ecog-Acrin Cancer Research Group	93.399	UG1CA189828	—	20,125
Ecog-Acrin Cancer Research Group	93.399	UG1CA189828-08-JHU3	—	57,685
Ecog-Acrin Cancer Research Group	93.399	UG1CA189828-08-JHU4	—	20,752
Ecog-Acrin Cancer Research Group	93.399	UG1CA189828-07-JHU2	—	17,390
Subtotal			—	829,082
National Association of Community Health Centers: Strengthening Public Health Systems and Services through National Partnerships to Improve and Protect the Nation's Health	93.421	2784	42,579	324,383
National Association of County and City Health Officials	93.421	2022-020304	—	278,703
Subtotal			42,579	603,086
ACL National Institute on Disability, Independent Living, and Rehabilitation Research	93.433	Direct	—	743,117
Catholic University of America	93.433	90REG0004-01-00	—	19,818
Subtotal			—	762,935
Prince George's County Health Department: Innovative State and Local Public Health Strategies to prevent and Manage Diabetes and Heart Disease and Stroke	93.435	4400005873	—	87,027
Prince George's County Health Department	93.435	NU58DP006626	—	27,578
Subtotal			—	114,605
Northwest Portland Area Indian Health Board: Indian Self-Determination	93.441	248-96-0011	—	51,577
Kennedy Krieger Institute: CDC Undergraduate Public Health Scholars Program (CUPS): A Public Health Experience to Expose Undergraduates Interested in Minority Health to Public Health and the Public Health Professions	93.456	NU50MNO00004	—	1,337
Child Care and Development Block Grant	93.575	Direct	—	49,193
Maryland Department of Education	93.575	221236	—	120,732
Maryland Department of Education	93.575	221670	—	47,377
Subtotal			—	217,302
Head Start	93.600	Direct	30,647	125,101
Baltimore City Health Department: Ending the HIV Epidemic: A Plan for America — Ryan White HIV/AIDS Program Parts A and B	93.686	CO #39731/40024	203,945	519,580
Indiana University: Trans-NIH Recovery Act Research Support	93.701	IN-4683697-JHU	—	(14,700)
Mental and Behavioral Health Education and Training Grants : COVID-19	93.732	Direct	—	100,766
Maryland Department of Health: Opioid STR	93.768	PHPA-G1302	—	57,609
New York City Health and Hospitals Corporation: Hospital Preparedness Program (HPP) Ebola Preparedness and Response Activities	93.817	90094585	—	1,086
Emory University: National Ebola Training and Education Center (NETEC)	93.825	A281253	—	281,154
University of California San Francisco: Supporting and Maintaining a Surveillance System for Chronic Kidney Disease (CKD) in the United States	93.833	NU58DP006255-05-00	—	6,127
Cardiovascular Diseases Research	93.837	Direct	9,847,417	45,281,763
Albert Einstein College of Medicine	93.837	311257	—	21,428
Albert Einstein College of Medicine	93.837	31148A	—	247,500
American Heart Association	93.837	ATRAC-5U54HL120163	—	345,345
Ann & Robert H. Lurie Children's Hospital of Chicago	93.837	901632-JHU	—	111,229
Augusta University	93.837	35238-2	—	35,797
Beth Israel Deaconess Medical Center	93.837	1062872	—	6,755

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Beth Israel Deaconess Medical Center	93.837	1063528	\$ —	23,275
Beth Israel Deaconess Medical Center	93.837	1063617	—	26,223
Boston University	93.837	4500003555	—	41,961
Boston University	93.837	4500004052	—	19,860
Brigham and Women's Hospital	93.837	117349	—	15,394
Brigham and Women's Hospital	93.837	122799	—	27,148
Brigham and Women's Hospital	93.837	123632	—	84,871
Brigham and Women's Hospital	93.837	P50HL112349	—	(20,422)
Coridea, Inc.	93.837	COR-004	—	(12,100)
Coridea, Inc.	93.837	COR-006	—	107,850
Duke Clinical Research Institute	93.837	A035536	—	52,646
Duke University	93.837	A032469	—	4,753
Duke University	93.837	U10HL084904	—	25,573
Florida State University	93.837	R000002804	—	15,476
Fred Hutchinson Cancer Research Center	93.837	1033214	—	7,032
Fred Hutchinson Cancer Research Center	93.837	1040871	—	4,374
Fred Hutchinson Cancer Research Center	93.837	1080611	—	19,682
Geisinger Health Systems	93.837	666953JHU02	—	67,113
George Washington University	93.837	S-ALP2022-CF41	—	117,553
ICAHN School of Medicine at Mount Sinai	93.837	0255-A344-4605	—	75
Icon Clinical Research	93.837	HCMR (ICON Study Num	—	596
Kennedy Krieger Institute	93.837	5R01HL144751-02 REV1	—	22,067
Kennedy Krieger Institute	93.837	R01HL149742	—	51,032
Massachusetts General Hospital	93.837	231822	—	24,053
Massachusetts General Hospital	93.837	236181	—	18,848
Medstar Research Institute	93.837	5002425005	—	2,225
New England Research Institute, Inc.	93.837	RO1HL141213	—	412
New England Research Institute, Inc.	93.837	U01HL107407	—	2,520
New England Research Institute, Inc.	93.837	U24HL135691	—	5,914
Northern California Institute for Research and Education	93.837	K1Z2166-03	—	(10,543)
Northern California Institute for Research and Education	93.837	K1Z2200-01	—	155,326
Northwestern University	93.837	60050339 JHU	—	71,445
Northwestern University	93.837	60058535 JHU	—	28,736
The Research Institute of the McGill University Health Centre	93.837	R01HL128550	—	17,493
Tissue Testing Technologies LLC	93.837	R43HL152941	—	14,700
Tulane University	93.837	TUL-HSC-560001-21/22	—	3,439
University of Alabama at Birmingham	93.837	000528250-SC004	—	22,107
University of California San Francisco	93.837	12479sc	—	41,993
University of California San Francisco	93.837	12919sc	—	10,183
University of California San Francisco	93.837	9331sc	—	4,170
University of Chicago	93.837	AWD100549(SUB0000044	—	182,386
University of Chicago	93.837	AWD101137 (SUB0000002	—	316,291
University of Illinois Chicago	93.837	17471	—	340,753
University of Kentucky	93.837	3200001355-18-049	—	40,104
University of Maryland College Park	93.837	69661-Z0115201	—	61,487
University of Michigan	93.837	SUBK00010377	—	20,926
University of Michigan	93.837	SUBK00012921	—	14,591
University of Minnesota	93.837	P008505105	—	35,885
University of Minnesota	93.837	P009030104	—	16,453
University of Mississippi Medical Center	93.837	SP14106-SB3	—	6,022
University of Pennsylvania	93.837	575277	—	281,785
University of Pennsylvania	93.837	578621	—	23,964
University of Pennsylvania	93.837	580479	—	2,423
University of Pittsburgh	93.837	AWD00004807	—	45,009
University of Pittsburgh	93.837	AWD00004822 (137097-	—	6,811
University of Rochester	93.837	417426G / UR FAO GR5	—	18,101
University of Rochester	93.837	417493G	—	11,450
University of Texas Health Science Center at Houston	93.837	Concert	—	(578)
University of Texas Rio Grande Valley	93.837	7K01HL133368-04 (01)	—	(1,773)
University of Washington	93.837	UWSC11123	—	92,116
University of Washington	93.837	UWSC8532	—	(2,129)
Vanderbilt University Medical Center	93.837	VUMC95799	—	154,652
Wake Forest University	93.837	1003-45116-110000002	—	68,905
Washington University	93.837	WU-21-7	—	132,333
Subtotal			9,847,417	49,032,837
Lung Diseases Research	93.838	Direct	898,174	15,508,822
Brigham and Women's Hospital	93.838	117868	—	221,394
Cedars-Sinai Medical Center	93.838	1413446	—	113,684
Children's Hospital of Philadelphia	93.838	GRT-00000547	—	20,367
Cincinnati Children's Hospital Medical Center	93.838	137990	—	10,105
Cleveland Clinic Foundation	93.838	CCF21026567	—	25,040
Columbia University	93.838	1(GG015835-02)	—	51,111
Columbia University	93.838	1(GG017929-01)	—	6,419
Columbia University	93.838	6(GG010919)	—	1,142
Columbia University	93.838	6(GG015835-02)	—	89,709
COPD Foundation	93.838	—	—	6,489
COPD Foundation	93.838	3	—	7,452
Coridea, Inc.	93.838	COR-007	—	(850)
Duke University	93.838	A03-5363	—	22,494
Emory University	93.838	A345896	187,785	262,986
Emory University	93.838	A346343	204,667	217,423
Fred Hutchinson Cancer Research Center	93.838	1058938	—	75,103
Fred Hutchinson Cancer Research Center	93.838	1058957	—	7,466
Massachusetts General Hospital	93.838	224404	—	4,117
Massachusetts General Hospital	93.838	238915	—	57,527
National Jewish Health	93.838	20071914	—	39,073
National Jewish Health	93.838	20113402	—	(2,637)
National Jewish Health	93.838	20116003_JHMC	—	100,959
Nemours Children's Clinic	93.838	761126-0-RSUB	—	288,501
New York University	93.838	OT2HL161847-01	—	25,922
Northwestern University	93.838	60053561JHU	—	1,001,222
Northwestern University	93.838	60056806JHU	—	(309)
Northwestern University	93.838	60059672 JHU	—	5,109
Princeton University	93.838	SUB0000557	—	19,348
Research Triangle Institute	93.838	35-312-0217571-66398	282,227	465,711
Rutgers University	93.838	1147	—	327,372
Sonavi Labs, Inc.	93.838	1R42HL147728-01A1	—	16,732
Stanford University	93.838	62349857-131009	—	46,357
University of Alabama at Birmingham	93.838	K23HL153672	—	2,534
University of Arizona	93.838	553563	—	5,744
University of California San Francisco	93.838	10438sc	—	229,067
University of California San Francisco	93.838	10955sc	—	39,117
University of California San Francisco	93.838	11847sc	—	(11,483)
University of California San Francisco	93.838	13041sc	—	106,990
University of Colorado	93.838	FY22.1126.030	—	414,016
University of Colorado Denver	93.838	FY18.784.006	—	381,484
University of North Carolina	93.838	5114593	—	16,201

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of North Carolina	93.838	5117256-H3JOHNHOPK	\$ —	6,397
University of Pennsylvania	93.838	579545	—	45,695
University of Pittsburgh	93.838	CNVA00056821 (134799	—	45,571
University of Pittsburgh	93.838	CNVA0046691 133106-6	—	8,609
University of Rochester	93.838	417815 / URFAO: GR51	—	38,706
University of Vermont	93.838	31438-01-004-SUB-000	—	78,872
University of Vermont	93.838	32723SUB52543	—	11,288
Vanderbilt University	93.838	VUMC63781	—	54,707
Weill Medical College of Cornell University	93.838	192243-4	—	30,503
Westat, Inc.	93.838	6793-02-S017	155,822	583,694
Subtotal			1,728,675	21,129,022
Blood Diseases and Resources Research	93.839	Direct	878,994	5,684,676
Cincinnati Children's Hospital Medical Center	93.839	314207	—	15,803
Cleveland Clinic Lerner College of Medicine	93.839	1364-SUB	—	14,696
Cleveland Clinic Lerner College of Medicine	93.839	1394-SUB	—	500
Kennedy Krieger Institute	93.839	113291-1219-01	—	7,924
University of Pittsburgh	93.839	4UH3HL143192	—	46,202
University of Pittsburgh	93.839	AWD00000392	—	520
University of Utah	93.839	10053175-02	—	15,140
University of Washington	93.839	UWSC11830	—	43,932
Vanderbilt University Medical Center	93.839	VUMC90787	—	21,921
Subtotal			878,994	5,855,314
Translation and Implementation Science Research for Heart, Lung, Blood Diseases, and Sleep Disorders	93.840	Direct	706,438	2,923,454
Universidad Peruana Cayetano Heredi	93.840	ANDES Study	—	184,403
University of Pennsylvania	93.840	68020	—	75,251
Vanderbilt University Medical Center	93.840	VUMC 92546	—	121,182
Washington University	93.840	WU-22-0474	—	53,569
Subtotal			706,438	3,357,859
Arthritis, Musculoskeletal and Skin Diseases Research	93.846	Direct	800,127	10,253,193
Ann & Robert H. Lurie Children's Hospital of Chicago	93.846	901634-Johns Hopkins	—	2,187
Cincinnati Children's Hospital Medical Center	93.846	308702	—	5,619
Neuromuscular Dynamics	93.846	Advarra-19-00586V1.4	—	7,747
Northwestern University	93.846	60057488-JHU	—	118,835
Otho Therapeutics, Inc.	93.846	R43AR079962	—	11,274
University of Alabama at Birmingham	93.846	000518393-001	—	35,992
University of California Irvine	93.846	2021-1483	—	14,792
University of Houston	93.846	R-19-0069	—	58,485
University of Michigan	93.846	SUBK00012502	—	23,220
University of Mississippi	93.846	SP14061-SB2	—	65,918
University of Texas Southwestern Medical Center	93.846	GMO: 210713	—	315,670
University of Virginia	93.846	GB10866.P042271544	—	31,677
University of Washington	93.846	UWSC13160	—	4,152
Subtotal			800,127	10,948,761
Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847	Direct	4,197,575	34,103,949
Augusta University	93.847	32307-88	—	51,630
Baylor College of Medicine	93.847	7000000973	—	94,649
Baylor College of Medicine	93.847	P01DK056492	—	36,155
Boston Children's Hospital	93.847	GENFD0002178042	—	14,750
Carnegie Institution of Washington	93.847	5-10870-02	—	16,184
Carnegie Institution of Washington	93.847	5-10870-03	—	132,259
Carnegie Institution of Washington	93.847	Sub 5-10870-01	—	67,585
Celeflux, LLC	93.847	R41DK125209	—	36,271
Children's Hospital of Philadelphia	93.847	20303863	—	7,853
Children's Hospital of Philadelphia	93.847	20303897	—	8,096
Children's Hospital of Philadelphia	93.847	3301820722	—	38,774
Children's Hospital of Philadelphia	93.847	20109859-RSUB	—	16,123
Children's Hospital of Philadelphia	93.847	3210910720 FP19413_S	—	3,891
CoapTech, LLC	93.847	PA-16-302	—	16,961
Diabetic Complications Consortium	93.847	DIACOMP	—	69,133
Duke University	93.847	A03-2466	—	34,121
Emocha Mobile Health, Inc.	93.847	R44DK123978	—	174,703
George Washington University	93.847	17-D07	—	10,501
George Washington University	93.847	2141113	—	9,399
Georgetown University	93.847	412881 GR412914-JHU	—	17,709
Harvard Pilgrim Healthcare	93.847	PH000668D	—	21,507
Indiana University	93.847	8485-JHU	—	255,213
Indiana University School of Medicine	93.847	8427-JHU	—	133,286
Indiana University School of Medicine	93.847	8913-JHU(SUL)	—	32,642
Kennedy Krieger Institute	93.847	113360-0122-02B	—	11,440
Kennedy Krieger Institute	93.847	113360-0122-03B	—	8,667
Kennedy Krieger Institute	93.847	113360-0122-04B	—	14,572
Kitware, Inc.	93.847	K002739-00-S02	—	10,422
Massachusetts General Hospital	93.847	239459	—	12,694
Medical College of Wisconsin	93.847	R21DK119989	—	786
Medical University of South Carolina	93.847	A20-0260-S002	—	47,567
Northern California Institute for Research and Education	93.847	EST2041-01	—	20,358
Northwestern University	93.847	60043198-JHU	—	(118)
Penn State University	93.847	5474-JHU-DHHS-6766	—	15,422
Penn State University	93.847	JHUDK127384	—	61,471
Penn State University	93.847	U01DK081283	—	925
Research Foundation of Suny	93.847	R1199423	—	1,247
Rhode Island Hospital	93.847	7137537	—	231,009
Rutgers University	93.847	277	—	253,065
Scripps Research Institute	93.847	5-54071	—	136,909
Stanford University	93.847	62493510-141099	—	198,176
State University of New York	93.847	R1293740	—	2,937
Temple University	93.847	265300	—	33,014
Temple University	93.847	258720-05-JHU	—	16,580
Temple University	93.847	258720-05-SDRC	—	28,229
Texas A&M University	93.847	M2000698	—	14,692
Thomas Jefferson University	93.847	080-27000-S43301	—	12,406
Tufts Medical Center	93.847	5019640_SERV	—	52,127
University of Alabama	93.847	R01DK113980	—	14,742
University of California Davis	93.847	A22-0835-S003	—	23,238
University of California Los Angeles	93.847	1560 B XA423	—	495
University of California San Francisco	93.847	10785sc	—	5,225
University of California San Francisco	93.847	B002152839	—	31,776
University of Colorado Denver	93.847	2-5-B0814	—	50,979
University of Illinois Chicago	93.847	17650-00	—	7,755
University of Iowa	93.847	S02049-02	—	1,819
University of Maryland Baltimore	93.847	20439	—	16,370
University of Maryland Baltimore	93.847	20442	—	7,682
University of Maryland Baltimore	93.847	050317E	—	75,859
University of Maryland Baltimore	93.847	F303345-1	—	26,434

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University of Maryland Baltimore	93.847	F303345-3	\$ —	(218)
University of Michigan	93.847	PO#: 3003480340	—	2,541
University of Minnesota	93.847	N006254901	—	42,303
University of Pennsylvania	93.847	572695	—	45,308
University of Pennsylvania	93.847	579974	—	42,073
University of Pennsylvania	93.847	582097	—	119,939
University of Pennsylvania	93.847	582481	—	15,895
University of Pennsylvania	93.847	U24DK060990	—	22,808
University of Pittsburgh	93.847	AWD00004275 (136529-	—	131,634
University of Pittsburgh	93.847	CNVA000060589 (136005	—	10,647
University of South Florida	93.847	6143-1172-00-A	—	129,118
University of South Florida	93.847	6143-1188-00-A	—	4,564
University of South Florida	93.847	NA 00027956	—	5,562
University of Virginia	93.847	GB10738.P0 2184135	—	92,570
University of Washington	93.847	MR 34382	—	6,373
University of Washington	93.847	RFP-KPMP-OP-21-001	—	15,265
University of Washington	93.847	UWSC11113	42,325	217,433
University of Washington	93.847	UWSC12428	—	87,031
Vanderbilt University	93.847	VUMC77919	—	392,720
Washington University	93.847	P30DK092950	—	2,047
Yale University	93.847	CON-80002993(GR11280	—	48,538
Yale University	93.847	GR104661 (CON-800014	—	11,577
Yale University	93.847	GR105192CON-80001610	—	51,093
Yale University	93.847	GR107961 (CON-800002	—	23,132
Yale University	93.847	GR110894 (CON-800026	—	32,723
Subtotal			4,239,900	38,402,531
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853	Direct	6,670,233	57,886,918
Albert Einstein College of Medicine	93.853	311344	—	(223)
Albert Einstein Medical Center	93.853	4964JHU	—	80,930
Beth Israel Deaconess Medical Center	93.853	1061832	—	37,738
Cedars-Sinai Medical Center	93.853	1935385	—	135,419
Cedars-Sinai Medical Center	93.853	Subaward 1599603	—	26,699
Children's Hospital of Philadelphia	93.853	GRT-0000664-PO20211	—	95,423
Cleveland Clinic Foundation	93.853	1422-SUB	—	102,354
Columbia University	93.853	1(GG014679-01)	—	568
Columbia University	93.853	GG008493-1	—	21,966
Cornell University	93.853	819663	—	22,689
Dartmouth College	93.853	1U01NS111695-01	—	403,670
Duke University	93.853	SUBAWARD A030522	—	(6,646)
Fred Hutchinson Cancer Research Center	93.853	Sub. No.: 0001023238	—	9,583
Harvard University	93.853	138078-5105155	—	146,799
Houston Methodist Hospital and Research	93.853	AGMT00000	—	26
Houston Methodist Hospital and Research	93.853	AGMT0000423	—	2,374
Illinois Institute of Technology	93.853	RFA-NS-16-009	—	83,084
Indiana University School of Medicine	93.853	8788	—	54,450
Infinite Biomedical Technologies	93.853	1U44NS108894-01	—	61,003
Infinite Biomedical Technologies	93.853	U44NS119842	—	56,440
Kennedy Krieger Institute	93.853	93.8539	—	34,577
Kennedy Krieger Institute	93.853	110235-0519-01	—	(4,504)
Kennedy Krieger Institute	93.853	110235-0519-01	—	1,427
Kennedy Krieger Institute	93.853	113091-0317-01	—	25,855
Kennedy Krieger Institute	93.853	113201-0622-01	—	28,373
Kennedy Krieger Institute	93.853	113258-0819-01	—	122,612
Kennedy Krieger Institute	93.853	113366-0622	—	53,527
Kennedy Krieger Institute	93.853	113436-0122-01	—	17,457
Kennedy Krieger Institute	93.853	5K12NS098482-03	—	91,634
Kennedy Krieger Institute	93.853	KKI 113161	—	64,054
Kennedy Krieger Institute	93.853	R2INS101400	—	20,172
Massachusetts General Hospital	93.853	235402	94,950	281,858
Massachusetts General Hospital	93.853	237602	—	211,771
Mayo Clinic	93.853	15086893 Malas , Ma7	—	28,780
Mayo Clinic	93.853	JHU-266816(PO #58649	—	376,547
Meso Scale Diagnostics, LLC	93.853	U01NS114144	—	180,891
New York University	93.853	18-AO-00-1001378	—	42,748
Newcastle University	93.853	NJ-002179	—	42,237
Phoenix Children's Hospital	93.853	Boerwinkle-21-01	—	76,383
Scripps Research Institute	93.853	5-27159	—	307,229
Scripps Research Institute	93.853	5-27314	—	64,834
Stanford University	93.853	61865503-125439	—	12,640
Stanford University	93.853	62553690-179030	—	10,492
University of California Davis	93.853	201602366-01	—	14,377
University of California Davis	93.853	A21-1324-S012	—	836
University of California Irvine	93.853	2014-3128	—	5,107
University of California Los Angeles	93.853	200 G XG786	—	19,017
University of California San Diego	93.853	KR 704151	—	77,326
University of California San Francisco	93.853	11260sc	—	66
University of California San Francisco	93.853	12852sc	—	5,324
University of Chicago	93.853	AWD066214-02-PR	—	580,224
University of Chicago	93.853	FP066261-A	—	109,431
University of Chicago	93.853	FP066261-B	13,487	23,844
University of Chicago	93.853	FP068364-01	—	160,934
University of Chicago	93.853	WD101469 (SUB00380)	—	2,989
University of Cincinnati	93.853	012044-139650	—	4,593
University of Cincinnati	93.853	013246-002	—	19,651
University of Cincinnati	93.853	013723-00002	—	33,773
University of Colorado Boulder	93.853	1555531	—	136,305
University of Florida	93.853	SUB00002636	—	3,969
University of Iowa	93.853	S02840-01	—	13,720
University of Maryland Baltimore	93.853	1902930	—	162,221
University of Maryland Baltimore	93.853	18952 Req:1475	—	165,126
University of Maryland Baltimore	93.853	3000039 Request:3068	—	65,159
University of Michigan	93.853	3006579919	—	17,168
University of Minnesota	93.853	N004631402	—	7,614
University of Minnesota	93.853	N009072002	—	33,149
University of Pennsylvania	93.853	575284	—	48,428
University of Pennsylvania	93.853	579139	—	72,369
University of Pittsburgh	93.853	0050115 (129536-3)	—	5
University of Pittsburgh	93.853	AWD0001238 (133678-1	—	4,414
University of Rochester	93.853	417480URFAOGR510879	—	23,777
University of Rochester	93.853	417730GIUR FAO GRS10	—	1,024
University of Southern California	93.853	138978781	—	2,417
University of Southern California	93.853	142419754	—	45,878
University of Southern California	93.853	SCON-00003079	—	27,390
University of Utah	93.853	10050533-13	—	9,255
University of Virginia	93.853	GB10289 2162849	—	(108)
University of Washington	93.853	11509	—	16,533

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
University of Washington	93.853	UWSC7772	\$ —	3,806
Washington University	93.853	WU-21-101	—	224,110
Subtotal			6,778,670	63,458,129
Allergy and Infectious Diseases Research	93.855	Direct	40,087,778	115,585,569
Allergy and Infectious Diseases Research: COVID-19	93.855	Direct	882,695	7,686,278
American Foundation for AIDS Research	93.855	110103-68-ISTA	—	18,767
American Foundation for AIDS Research	93.855	110246-70-ISTA	—	127,320
Baylor College of Medicine	93.855	7000001454	—	17,801
Benaroya Research Institute at VA Mason	93.855	FY141TN074	—	171
Benaroya Research Institute at VA Mason	93.855	FY191TN274	—	19,649
Benaroya Research Institute at VA Mason	93.855	FY211TN422	—	304,363
Benaroya Research Institute at VA Mason	93.855	FY211TN514	—	2,659,512
Benaroya Research Institute at VA Mason: COVID-19	93.855	FY211TN444	—	21,208
Beth Israel Deaconess Medical Center	93.855	1060810	—	(53,561)
Beth Israel Deaconess Medical Center	93.855	1061550	—	12,066
Beth Israel Deaconess Medical Center	93.855	1063720	—	328,947
Boston Children's Hospital	93.855	GENFD0002050159	—	111,882
Boston College	93.855	5111051-1	—	221,526
Boston University	93.855	4500003133	—	26,343
Boston University	93.855	4500008477	—	42,457
Brigham and Women's Hospital	93.855	110557	—	(281)
Brigham and Women's Hospital	93.855	125413	—	43,343
Brigham and Women's Hospital	93.855	A5332-Reprieve	—	76,114
Caucasaco Scientific Research Center	93.855	U01AI155363	—	27,267
Centre for the AIDS Programme of Research in South Africa	93.855	R01AI152142	—	26,488
Duke Clinical Research Institute	93.855	1297174	—	7,928
Duke Clinical Research Institute	93.855	A03-4297	—	17,820
Duke University	93.855	A031628	—	27,006
Duke University	93.855	A032996	—	22,703
Duke University	93.855	A034180	—	37,791
Duke University	93.855	A034260	—	131
Duke University	93.855	A03-5344	—	73,557
Duke University	93.855	A03-5480	—	18,147
Duke University Medical School	93.855	303000162	—	99,613
Emory University	93.855	A046257	—	73,817
Emory University	93.855	A263425	—	7,847
Emory University	93.855	A533869	—	97,035
FHI 360	93.855	PO17001873	—	87,739
FHI 360	93.855	PO18001928	733,988	770,117
FHI 360	93.855	PO18001929	720,679	739,883
FHI 360	93.855	PO18001954	108,680	129,605
FHI 360	93.855	PO19002393	44,505	44,505
FHI 360	93.855	PO20000546	—	44,553
FHI 360	93.855	PO20000762	—	53,138
FHI 360	93.855	PO20002149	—	12,690
FHI 360	93.855	PO20002340	—	25,972
FHI 360	93.855	PO20002507	65,855	65,855
FHI 360	93.855	PO20002508	—	(45)
FHI 360	93.855	PO20002910	—	645,958
FHI 360	93.855	PO21000534	—	33,521
FHI 360	93.855	PO21002251	188,384	319,092
Fred Hutchinson Cancer Research Center	93.855	225514	—	353,202
Fred Hutchinson Cancer Research Center	93.855	1033136	—	97,469
Fred Hutchinson Cancer Research Center	93.855	Clonal proliferatio	—	16,940
George Washington University	93.855	16-M47	—	63,537
George Washington University	93.855	19-M23	—	8,913
George Washington University	93.855	21-M96	—	24,498
Gladstone Institutes	93.855	SC-00015	—	147,504
Global Alliance for TB Drug	93.855	21218	—	388,435
Harvard T.H. Chan School of Public Health	93.855	117273-5115060	—	29,976
Henry M. Jackson Foundation	93.855	4239	—	212,394
HMH Hospitals Corporation	93.855	19023	—	216,699
Houston Methodist Hospital and Research	93.855	18050021	—	2,555
ICAHN School of Medicine at Mount Sinai	93.855	0255-B003-4609	—	51,194
ICAHN School of Medicine at Mount Sinai	93.855	0255-B891-4609	—	21,407
ICAHN School of Medicine at Mount Sinai	93.855	0255-C164-4609	—	28,550
Imquest Biosciences	93.855	RFA-AI-11-031	—	(3,509)
Infinite Biomedical Technologies	93.855	1R01AI146177-01A1	—	342,100
Infinite Biomedical Technologies	93.855	AI155309	—	159,547
Kaiser Foundation Research Institute	93.855	OOS030104-JHU	—	24,508
La Jolla Institute for Allergy and Immunization	93.855	27318-04-167-384	—	49,133
Magee-Womens Hospital	93.855	9736	—	133,875
Magee-Womens Research Institute and Foundation	93.855	9468	—	12,395
Magee-Womens Research Institute and Foundation	93.855	9719	—	32,645
Massachusetts General Hospital	93.855	237578	—	9,447
Massachusetts General Hospital	93.855	5U01HL123336	—	67,590
Microplex, Inc.	93.855	AI134543	—	(2,457)
Montana State University	93.855	G384-21-W9134	—	17,643
Mount Sinai Medical Center	93.855	0255-B004-4609	—	19,535
National Jewish Health	93.855	2098002	—	(7,871)
Northwestern University	93.855	60040625 JHU	—	12,666
Northwestern University	93.855	60040627 JHU	—	15,027
Northwestern University	93.855	60049228 JHU	—	503,121
Northwestern University	93.855	60054199 JHU	—	150,343
Oak Crest Institute of Science	93.855	S14-15/JH	—	49,081
Oregon Health Sciences University	93.855	1017490 JHU	—	51,230
Ossium Health, Inc.	93.855	1R43AI155196	—	32,175
Pearl Diagnostics, Inc.	93.855	R44AI157372	—	160,332
Penn State University	93.855	5673-JHU-DHHS-4384	—	200,430
Penn State University	93.855	5777-JHU-DHHS-6664	—	44,160
Penn State University	93.855	JHUA1162815	—	58,489
Rutgers University	93.855	395	—	76,263
Rutgers University	93.855	2094	—	29,314
Sanaria, Inc.	93.855	C13842T	—	310,764
Sanaria, Inc.	93.855	R44AI134500	—	(87)
Scripps Research Institute	93.855	5-54435	—	196,508
Stanford University	93.855	62279229-120966	—	19,650
Sylvatica Biotech, Inc.	93.855	2R44AI124835	—	30,127
Sylvatica Biotech, Inc.	93.855	5R44AI145782	—	20,856
Universidad Peruana Cayetano Heredi	93.855	U19AI129909	—	64,434
University of Alabama at Birmingham	93.855	000397076-008	—	52,549
University of Alabama at Birmingham	93.855	000509734-021	—	7,340
University of Alabama at Birmingham	93.855	000529618-SC001	—	353,899
University of Alabama at Birmingham	93.855	R24AI067039	—	1,214
University of California Los Angeles	93.855	1560 B YB 237	—	255,692
University of California Los Angeles	93.855	1560 G TC267	—	77,650
University of California Los Angeles	93.855	1560 G WB058	—	16,237

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University of California Los Angeles	93.855	1560 G YB315	\$ —	8,893
University of California Los Angeles	93.855	1560 G YB690	—	10,064
University of California Los Angeles	93.855	1560 G YB700	—	20,937
University of California Los Angeles	93.855	1560 G YB947	—	12,233
University of California Los Angeles	93.855	1560 G YC336	—	27,346
University of California Los Angeles	93.855	1560 G ZA796	—	8,200
University of California Los Angeles	93.855	1560 G ZB479	—	927
University of California Los Angeles	93.855	1560 G ZB546	—	7,113
University of California Los Angeles	93.855	1560 G ZB547	—	10,933
University of California Los Angeles	93.855	1560GWA739	—	4,094
University of California Los Angeles	93.855	1650 G YA501	—	141,539
University of California Los Angeles	93.855	2UM1A1068636-15	—	613,278
University of California Riverside	93.855	S-001014	—	61,884
University of California San Diego	93.855	KR 704640	—	4,767
University of California San Francisco	93.855	10040sc	—	97,743
University of California San Francisco	93.855	11155sc	—	151,943
University of California San Francisco	93.855	12348SC	—	351,058
University of California San Francisco	93.855	12361sc	—	98,941
University of California San Francisco	93.855	12934sc	—	69,338
University of California San Francisco	93.855	131775C	—	183,347
University of California San Francisco	93.855	13451sc	—	50,909
University of California San Francisco	93.855	9253SC	—	21,111
University of California San Francisco	93.855	9297SC	—	18,098
University of California San Francisco	93.855	9394sc	—	(7,192)
University of California San Francisco	93.855	9599sc	—	6,423
University of Colorado Denver	93.855	FY17.820.001	—	96,813
University of Colorado Denver	93.855	FY180784.008	—	54,051
University of Illinois Urbana Champaign	93.855	095614-17652	—	62,666
University of Maryland Baltimore	93.855	1700990	—	94,916
University of Maryland Baltimore	93.855	1701219	—	1,304
University of Maryland Baltimore	93.855	1903341	—	9,391
University of Maryland Baltimore	93.855	F208759-05	—	42,259
University of Maryland Baltimore	93.855	F305431-1	—	224,287
University of Maryland Baltimore	93.855	F305431-2	—	147,659
University of Miami	93.855	SPC-000982	—	41,486
University of Michigan	93.855	SUBK0009924	—	154,286
University of North Carolina	93.855	5106134	—	(13)
University of North Carolina	93.855	5120656	—	72,645
University of Oklahoma	93.855	2021-47	—	17,686
University of Pennsylvania	93.855	574360	—	218,652
University of Pennsylvania	93.855	579185	—	19,314
University of Pennsylvania	93.855	Subaward No. 579309	—	38,024
University of South Florida	93.855	6119-1510-00-B	—	16,745
University of South Florida	93.855	6408-1139-02-A	—	147,787
University of South Florida	93.855	UFDSP00011532-	—	29,434
University of the Witwatersrand, Johannesburg	93.855	R01A1129708	—	77,874
University of Utah	93.855	10047781-01	—	183,140
University of Vermont	93.855	33109SUB52705	—	11,029
University of Virginia	93.855	GB10531.2125596	—	42,551
University of Virginia	93.855	GB10670	—	16,219
University of Washington	93.855	UWSC12497	—	283,213
University of Washington	93.855	UWSC12533	—	47,043
University of Wisconsin-Madison	93.855	158	—	20,396
University of Wisconsin-Madison	93.855	1420	—	300,459
University of Wisconsin-Madison	93.855	1724	—	19,910
Vanderbilt University Medical Center	93.855	VUMC58446	—	42,891
Virginia Polytechnic Institute and State University	93.855	431892-19446	—	128,995
Washington University	93.855	WU-22-0049	—	28,716
Weill Medical College of Cornell University	93.855	193572-09	—	115,777
Wistar Institute	93.855	25284-06-324	—	14,513
Wistar Institute	93.855	25900-22-324	—	6,009
Wistar Institute	93.855	25900-52-324	—	355,381
Yale University	93.855	CON-80002964(GR11258	—	242,737
Yale University	93.855	CON-80003526	—	26,893
Yale University	93.855	GR104014CON-80001369	—	82,144
Yale University	93.855	GR105301(CON-8000166	—	36,046
Yale University	93.855	GR107888 CON-800020	—	327,411
Subtotal			42,832,564	141,944,491
Biomedical Research and Research Training	93.859	Direct	1,318,533	50,524,351
Dana-Farber Cancer Institute	93.859	1317801	—	66,176
Dartmouth College	93.859	R992	—	1,279
Fort Belknap Indian Community	93.859	S06GM142116	—	151,386
Harvard Medical School	93.859	153396.5111836.0006	—	44,554
San Diego State University	93.859	SA0000632	—	31,462
Sanford Burnham Prebys Medical Discovery Institute	93.859	60733-13141-JHU	—	146,177
Stanford University	93.859	62731103-107757	—	41,080
University of California Berkeley	93.859	10709	—	268,234
University of Georgia	93.859	SUB00002419	—	39,605
University of Illinois Urbana Champaign	93.859	092912-17175	—	28,114
University of Illinois Urbana Champaign	93.859	106294-18749	—	373
University of Maryland Baltimore	93.859	F303631-1	—	24,973
University of Pittsburgh	93.859	AWD00002116 (134194-	—	66,510
University of Rochester	93.859	Subaward #417831G	—	146,002
Vanderbilt University	93.859	UNIV61290	—	103,543
White Mountain Apache Tribe	93.859	NARCH IX- Developing	—	99,778
White Mountain Apache Tribe	93.859	NARCH IX- My Health	—	87,537
White Mountain Apache Tribe	93.859	NARCH IX- Student	—	(2,168)
White Mountain Apache Tribe	93.859	NARCH IX-Adm. Core	—	13,645
White Mountain Apache Tribe	93.859	NARCH X - Adm. Core	—	21,476
White Mountain Apache Tribe	93.859	NARCH X - Student	—	33,760
White Mountain Apache Tribe	93.859	NARCH X - Trauma	—	206,231
Subtotal			1,318,533	52,144,078
Olive View-UCLA Education & Research Institute: Emerging Infections Sentinel Networks	93.860	#20-43	—	2,028
Olive View-UCLA Education & Research Institute: COVID-19	93.860	UCLA OliveView 19-03	—	1,946
Subtotal				3,974
Child Health and Human Development Extramural Research	93.865	Direct	3,447,135	20,036,274
Brown University	93.865	1773	—	12,461
Case Western Reserve University	93.865	RESS14553	—	106,956
Children's Hospital of Philadelphia	93.865	3201960821-S1	—	18,360
Children's Research Institute	93.865	30004438-15	—	7,338
Children's Research Institute	93.865	30004942-06	—	6,920
Columbia University	93.865	2 GGO12817-01	—	167,652
Cornell University	93.865	190641-02	—	4,843
Florida State University	93.865	71746	—	1,084

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George Mason University	93.865	E2047592	\$ —	2,932
Gilead Sciences, Inc.	93.865	CO-US-540-5961	154,319	210,017
Kaiser Foundation	93.865	RNG200543-01	—	166,340
Kaiser Foundation Research Institute	93.865	RNG209743-JHU-01	—	70,541
Kaiser Foundation Research Institute	93.865	RNG210887-JHU-02	—	33,409
Kennedy Krieger Institute	93.865	00-191-0777	—	76,027
Kennedy Krieger Institute	93.865	110168-0219-01	—	25,739
Kennedy Krieger Institute	93.865	112013-0520-01	—	13,883
Kennedy Krieger Institute	93.865	113225-0119-01	—	44,175
Kennedy Krieger Institute	93.865	113315-0620-01	—	70,293
Kennedy Krieger Institute	93.865	113369-0621-11B	—	21,019
Kennedy Krieger Institute	93.865	113369-0621-12B	—	42,194
Kennedy Krieger Institute	93.865	113369-0622-13B	—	162,526
Kennedy Krieger Institute	93.865	1P50HD103538-01	—	131,914
Michigan State University	93.865	RC109609JHU	—	17,131
Michigan State University	93.865	RC113085A	—	28,964
National Disease Research Interchange	93.865	Subaward No. 141145	—	103,982
Nationwide Children's Hospital	93.865	700196-0420-00	—	3,194
New York University	93.865	17-A0-00-006461-01	—	151,791
Northwestern University	93.865	60047828 JHU	—	21,991
Ohio State University	93.865	Subaward no. 6007737	—	14,504
Tulane University School of Public Health and Tropical Medicine	93.865	TUL-HSC-557072-19/20	—	97,650
University of Alabama at Birmingham	93.865	000523794-SC009	—	15,106
University of California Irvine	93.865	2021-1547	—	38,373
University of Chicago	93.865	AWD 101148 (SUB00000)	—	139,495
University of Colorado Denver	93.865	FY22 1137.004	—	12,956
University of Maryland Baltimore County	93.865	HHS00034-02	—	(416)
University of Miami	93.865	OS00000840	—	23,973
University of Miami	93.865	OS00000841	—	63,194
University of Miami School of Medicine	93.865	SPC-001356	—	307,533
University of Michigan	93.865	SUBK00016096	—	4,296
University of Minnesota	93.865	N008455402	—	14,617
University of Minnesota	93.865	P006580001	—	87,618
University of North Carolina	93.865	5109088	—	141,301
University of North Carolina	93.865	5109130	—	(9,258)
University of North Carolina	93.865	5116604	—	40,577
University of North Carolina	93.865	5119259	—	3,009
University of North Carolina	93.865	5120001	37,375	45,790
University of North Carolina	93.865	5122393	—	9,166
University of Pennsylvania	93.865	572724	—	227,453
University of Pennsylvania	93.865	579365	843	244,082
University of Pennsylvania	93.865	582884	—	38,647
University of Pennsylvania	93.865	583538	—	44,606
University of Texas at Austin	93.865	UTA12-000835	—	40,463
University of Texas at Austin	93.865	UTA17-000887	—	35,605
Weill Medical College of Cornell University	93.865	220880	—	7,154
Weill Medical College of Cornell University	93.865	212826-3	—	(216)
Weill Medical College of Cornell University	93.865	215518-1	—	127,736
Yale University	93.865	CON-80003407 GR11511	—	32,530
Yale University	93.865	GR110444	—	33,465
Yale University	93.865	GR110559 CON-800026	—	78,717
Yale University	93.865	GR111910 (CON-800028	—	7,124
Subtotal			<u>3,639,672</u>	<u>23,726,790</u>
Aging Research	93.866	Direct	16,140,266	79,390,481
Agenebio	93.866	JHU-R44AG063607	—	170,354
American Federation for Aging Research	93.866	U24AG065204	—	50,996
American Geriatrics Society	93.866	2R13AG054139-06	—	12,063
Anthrotronix, Inc.	93.866	092020-0001-JHU	—	138,402
Beth Israel Deaconess Medical Center	93.866	1062185	—	(1,450)
Brigham and Women's Hospital	93.866	119837	—	19,689
Brigham and Women's Hospital	93.866	239497	—	112,692
Brown University	93.866	1472	—	34,418
Brown University	93.866	1783	108,960	216,378
Brown University	93.866	Subaward 00001807	—	64,485
COG Analytics, LLC	93.866	11209-2	—	7,471
Colorado State University	93.866	G-785535-01	—	109,457
Columbia University	93.866	1(GG010471-12)	—	67,617
Columbia University	93.866	10(GG015822-03)	—	62,924
Columbia University	93.866	2(GG013391-01)	—	20,747
Columbia University	93.866	2(GG014803-01)	—	23,312
Columbia University	93.866	3(GG015822-01)	—	295,759
Columbia University	93.866	4(GG015353-01)	—	42,270
Cornell University	93.866	214795	—	55,782
Cornell University	93.866	16060870	—	39,155
Drexel University	93.866	900017	—	12,958
Drexel University Dornsife School of Public Health	93.866	900142	—	7,977
Duke University	93.866	A032646	—	40,935
Duke University	93.866	A032814	—	75,750
Duke University	93.866	A034529	—	25,107
George Washington University	93.866	20-M131	—	30,583
Harvard Medical School	93.866	125298	—	32,502
Harvard University	93.866	92354	—	6,370
Harvard University	93.866	10.10.91531	—	(469)
Healthy Design Limited Company	93.866	R42AG059451	—	10,392
ICAHN School of Medicine at Mount Sinai	93.866	0254-4608-4609	—	17,755
Indiana University	93.866	7856_JHU	11,323	70,787
Indiana University	93.866	9049_JHU	—	104,263
Kaiser Foundation Research Institute	93.866	R33AG057289-03	—	159,376
Kaiser Foundation Research Institute	93.866	RNG211289-JHU-01	—	141,293
Kennedy Krieger Institute	93.866	113364-0223-02B	—	242,359
Kennedy Krieger Institute	93.866	R21AG065794	—	50,724
Magee-Womens Research Institute and Foundation	93.866	6595	—	19,946
Massachusetts General Hospital	93.866	234538	—	94,305
Massachusetts General Hospital	93.866	235290	—	9,883
Massachusetts General Hospital	93.866	238631	—	88,428
Mayo Clinic	93.866	HOP-263134	—	1,820
Mayo Clinic	93.866	JHU-263134	12,474	36,871
Mayo Clinic	93.866	joh-225630-01	—	32,101
Mayo Clinic	93.866	JOH-250202/P/O #66468	—	20,389
Mayo Clinic	93.866	JOH-263134	—	116,588
Medical University of South Carolina	93.866	A00-1735-S005	—	(1,020)
Network for Investigation of Delirium	93.866	91511	—	9,551
New York University	93.866	19-A0-00-1002424	—	(300)
Northern California Institute for Research and Education	93.866	SHL1947-01	—	7,930
Northern California Institute for Research and Education	93.866	SHL2120-03	—	92,114
Northern California Institute for Research and Education	93.866	STE2196-01	—	139,737

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Northern California Institute for Research and Education	93.866	STE2196-19	\$ —	49,787
Northwestern University	93.866	60060219 JHU	—	18,126
Ohio State University	93.866	GR123783	—	19,919
Penn State University	93.866	575698	—	52,419
Pennington Biomedical Research Center	93.866	AG069476-JH01	—	7,614
Rush University Medical Center	93.866	17091805-Sub02	—	56,898
Sapere Bio	93.866	1901	—	30,942
University of Arizona	93.866	625628	—	529,266
University of Arizona	93.866	632997	—	89,475
University of Arizona	93.866	Subaward No. 637159	—	477,292
University of Buffalo	93.866	R1222309	—	240,589
University of California Los Angeles	93.866	1440 G WB118	—	32,290
University of California Los Angeles	93.866	1560 B WB267	—	928
University of California San Diego	93.866	94094821	—	8
University of California San Francisco	93.866	10065sc	—	165,506
University of California San Francisco	93.866	10851sc	—	38,987
University of California San Francisco	93.866	11244sc	—	73,806
University of Colorado	93.866	FY17.830.006	—	44
University of Colorado	93.866	FY22.1105.003	—	92,269
University of Connecticut	93.866	419315	—	75,190
University of Florida	93.866	SUB00002113	—	305,008
University of Florida	93.866	SUB00002809	—	90,793
University of Maryland Baltimore	93.866	WU-18-288	—	(2,001)
University of Maryland College Park	93.866	55401-20081201	—	2,792
University of Maryland College Park	93.866	65513-20159201	—	47,714
University of Michigan	93.866	SUBK00009460	—	35,353
University of Michigan	93.866	SUBK00011958	—	36,683
University of Michigan	93.866	SUBK00012778	—	46,841
University of Michigan	93.866	SUBK00013428	—	98,833
University of Minnesota	93.866	H004986804	5,420	5,927
University of Minnesota	93.866	N005175202	—	46,796
University of Minnesota	93.866	P008207802	—	4,413
University of Minnesota	93.866	P008441957	—	12,389
University of Minnesota	93.866	P009273457	—	14,198
University of North Carolina	93.866	5106145	—	20,983
University of North Texas	93.866	RF00016-2017-0031	—	44,402
University of North Texas	93.866	RF00108-2018-0160	—	165,839
University of Pittsburgh	93.866	061578(128001-1)	—	100,858
University of Pittsburgh	93.866	AWD00001055 (134265-	—	45,164
University of Pittsburgh	93.866	AWD00002130 (136614-	—	107,777
University of Pittsburgh	93.866	CNVA00060606 (131...	—	43,486
University of Rochester	93.866	SUB00000042	—	18,275
University of Southern California	93.866	1201092	—	19,968
University of Southern California	93.866	75680149	—	(37,491)
University of Southern California	93.866	79634876	7,595	34,831
University of Southern California	93.866	120698547	—	1,084
University of Southern California	93.866	129131029	—	68
University of Southern California	93.866	137874608	—	122,656
University of Southern California	93.866	142677043	—	107,993
University of Southern California	93.866	CTA- #124181181	—	51,759
University of Southern California	93.866	Infra. 125682412	—	6,556
University of Southern California	93.866	Subaward 105708311	—	150,634
University of Texas Health Science Center at Houston	93.866	168645/168644	—	254,693
University of Vermont	93.866	32667SUB52512	—	210,837
University of Washington	93.866	UWSC10158	—	215,728
University of Washington	93.866	UWSC7723	—	24,729
University of Wisconsin-Madison	93.866	687	—	43,902
University of Wisconsin-Madison	93.866	1189	—	17,552
University of Wisconsin-Madison	93.866	1236	—	35,580
Wake Forest University	93.866	1037-55811085045117-	—	97,349
Wake Forest University	93.866	107-101720-551083	—	276,513
Wake Forest University	93.866	109345116-110000002	—	14,563
Wake Forest University	93.866	1099-32841-110000002	—	72,736
Wake Forest University	93.866	46-101720-112941	—	72
Wake Forest University	93.866	WFLHS 552702	—	12,957
Wake Forest University Health Services	93.866	106-55811085033664-1	—	22,285
Wistar Institute	93.866	sub 25601-03-381	—	48,239
Yale University	93.866	GR107798 (CON-800019	—	17,456
Subtotal			<u>16,286,038</u>	<u>87,800,204</u>
Vision Research	93.867	Direct	1,094,385	23,171,898
Aptitude Medical Systems, Inc.	93.867	AMS102019-1	—	96,312
Aptitude Medical Systems, Inc.	93.867	AMS102021-1	—	29,939
Aptitude Medical Systems, Inc.	93.867	JHU IPN 20119295	—	(112)
Beth Israel Deaconess Medical Center	93.867	1060578	—	246
Cleveland Clinic Foundation	93.867	1432SUB	—	68,908
Cleveland Clinic Lerner College of Medicine	93.867	8860839	—	23,485
Jaeb Center for Health Research, Inc.	93.867	1498	—	16,980
Jaeb Center for Health Research, Inc.	93.867	U10EY11751	—	125,317
Jaeb Center for Health Research, Inc.	93.867	UG1EY014231 JAEB	—	19,296
Minnesota Health Solutions	93.867	MHS19-ObjectFinder2-	—	35,422
New York University Medical Center	93.867	U01EY026829-01	—	13,029
ONL Therapeutics	93.867	PO # 2018-0002	—	143,840
REBISCAN, Inc.	93.867	R41EY030382	—	113,004
Stanford University	93.867	62015719-136077	—	119,440
Temple University	93.867	263516-JHU	—	145
University of California Davis	93.867	A17-0215-S001-A01	—	64,139
University of California Irvine	93.867	2019-3697	—	151,002
University of California San Diego	93.867	75885266	—	66,328
University of California San Diego	93.867	KR 704547	—	5,997
University of California San Francisco	93.867	11317sc	—	1,456
University of Colorado Denver	93.867	FY20.1031.001	—	242,403
University of Maryland Baltimore	93.867	3002716	—	165,714
University of Maryland Baltimore	93.867	1701168 548	—	65,825
University of Maryland College Park	93.867	95605-Z0359201	—	195,209
University of Maryland College Park	93.867	Subaward No. 1802235	—	(36,798)
University of Minnesota	93.867	P007567901	—	97,659
University of Pennsylvania	93.867	570490	—	26,348
University of Pennsylvania	93.867	583307	—	32,812
University of Pittsburgh Medical Center	93.867	AWD00003835	—	287,478
University of Texas at Dallas	93.867	1806484	—	78,810
University of Washington	93.867	UWSC10167	—	245,312
University of Wisconsin-Madison	93.867	1133	—	32,580
Virginia Commonwealth University	93.867	FP00006729 SA001	—	199,998
Subtotal			<u>1,094,385</u>	<u>25,899,421</u>

THE JOHNS HOPKINS UNIVERSITY
Schedule of Expenditures of Federal Awards
Year ended June 30, 2022

Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Maternal, Infant and Early Childhood Home Visiting Grant	93.870	Direct	\$ 551,384	1,428,642
State of New Jersey	93.870	20VMZP	—	5,772
State of New Jersey	93.870	22VMZP	—	459,993
Subtotal			551,384	1,894,407
University of Colorado Denver: Tribal Maternal, Infant, and Early Childhood Home Visiting	93.872	FY21.494.001/2-5-A97	—	16,854
Medical Library Assistance	93.879	Direct	115,633	251,453
University of Minnesota: Rural Health Care Services Outreach, Rural Health Network Development and Small Health Care Provider Quality Improvement	93.912	D008948402	—	24,377
Associated Black Charities-Maryland: HIV Emergency Relief Project Grants	93.914	19-2438-01A	—	8,800
Associated Black Charities-Maryland	93.914	20-2438-002	—	2,286
Associated Black Charities-Maryland	93.914	20-2438-019	—	2,826
Associated Black Charities-Maryland	93.914	20-2438-01A	—	21
Associated Black Charities-Maryland	93.914	20-2438-V1A	—	(2,402)
Associated Black Charities-Maryland	93.914	20-2438-V1E	—	(912)
Associated Black Charities-Maryland	93.914	20-2483-01A	—	119
Associated Black Charities-Maryland	93.914	21-2433-004	—	229,576
Associated Black Charities-Maryland	93.914	21-2435-Part A	—	47,973
Associated Black Charities-Maryland	93.914	21-2435-022	—	97,725
Associated Black Charities-Maryland	93.914	21-2438-002	—	644,055
Associated Black Charities-Maryland	93.914	21-2438-007	—	42,342
Associated Black Charities-Maryland	93.914	21-2438-016	—	43,356
Associated Black Charities-Maryland	93.914	21-2438-019	—	14,559
Associated Black Charities-Maryland	93.914	21-2438-01A	—	662,956
Associated Black Charities-Maryland	93.914	21-2438-01E	—	94,376
Associated Black Charities-Maryland	93.914	21-2438-03F	—	37,769
Associated Black Charities-Maryland	93.914	21-2438-080	—	15,074
Associated Black Charities-Maryland	93.914	21-2481-01A	—	119,950
Associated Black Charities-Maryland	93.914	21-2481-N01	—	82,949
Associated Black Charities-Maryland	93.914	21-2483-01A	—	119,442
Associated Black Charities-Maryland	93.914	21-2483-01E	—	23,100
Associated Black Charities-Maryland	93.914	21-2483-MC2	—	106,129
Baltimore City Health Department	93.914	40023	—	68,368
Baltimore City Health Department	93.914	40169	—	60,480
Baltimore City Health Department	93.914	40170	—	302,690
Baltimore City Health Department	93.914	CO#40171	—	276
Subtotal			—	2,823,883
Maryland Department of Health: HIV Care Formula Grants	93.917	PHPA-1173	—	229,978
Maryland Department of Health	93.917	PHPA-1370	—	72,634
Maryland Department of Health	93.917	PHPA-G1595	—	301,235
Subtotal			—	603,847
Grants to Provide Outpatient Early Intervention Services with Respect to HIV Disease	93.918	Direct	—	194,566
Grants to Provide Outpatient Early Intervention Services with Respect to HIV Disease: COVID-19	93.918	Direct	—	9,261
Subtotal			—	203,827
Baltimore City Health Department: HIV Prevention Activities Health Department Based	93.940	33914	—	33,828
Baltimore City Health Department	93.940	39519	—	(6,296)
Baltimore City Health Department	93.940	39603	—	(587)
Baltimore City Health Department	93.940	39832	—	(217)
Baltimore City Health Department	93.940	40025	—	57,610
Baltimore City Health Department	93.940	40027	—	115,763
Baltimore City Health Department	93.940	40028	—	25,451
Baltimore City Health Department	93.940	40145	—	12,873
Baltimore City Health Department	93.940	40216	—	384,758
Baltimore City Health Department	93.940	40238	—	102,831
Baltimore City Health Department	93.940	CO #40029	—	10,000
Baltimore City Health Department	93.940	CO# 40097	—	77,899
Subtotal			—	813,913
HIV Demonstration, Research, Public and Professional Education Projects	93.941	Direct	—	358,938
Geisinger Health Systems: Assistance Programs for Chronic Disease Prevention and Control	93.945	616091JHU01	—	10,402
Maryland Department of Health: Block Grants for Prevention and Treatment of Substance Abuse	93.959	PHPA-1734 (BPM026)	—	162,238
University of Maryland College Park	93.959	100635-Q0739201	—	271,999
University of Maryland College Park	93.959	91186-Q0562201	—	48,434
Subtotal			—	482,671
Virginia Commonwealth University: PPHF Geriatric Education Centers	93.969	FP00009788_SA007	—	25,143
Baltimore City Health Department: Sexually Transmitted Diseases (STD) Prevention and Control Grants	93.977	40022	—	67,662
Baltimore City Health Department	93.977	40154	—	147,995
Baltimore City Health Department	93.977	40407	—	291,584
Subtotal			—	507,241
Sexually Transmitted Diseases (STD) Provider Education Grants	93.978	Direct	—	338,385
Baltimore City Health Department	93.978	39702	—	(3,083)
Subtotal			—	335,302
American Psychiatric Association: Medicare Access and CHIP Reauthorization Act (MACRA) Funding Opportunity: Measure Development for the Quality Payment Program	93.986	1V1CMS331640-02-00	—	22,000
International Research and Research Training	93.989	Direct	801,554	2,739,595
Addis Ababa University	93.989	5D43TW010143	—	22
Addis Ababa University	93.989	5R25TW011214-03	—	125,549
Addis Ababa University	93.989	R25TW011214	—	4,582
Emory University	93.989	A23A295	—	5,630
Infectious Disease Institute	93.989	RS NI 83 294B	—	108,702
Instituto Nacional de Salud Pública	93.989	90098393	—	5,152
Makerere University	93.989	MakCHS102018	—	21,459
Makerere University	93.989	MakCHS22/2019	—	80,877
Makerere University	93.989	R25TW011213	—	61,827
Makerere University	93.989	SUBAWARD 01-03	—	89,318
Northwestern University	93.989	60058815 JHU	—	10,896
Universidad Peruana Cayetano Heredi	93.989	006-20	—	16,901
Universidad Peruana Cayetano Heredi	93.989	D43TW007393	—	8,090
University of Bamako	93.989	USTTB-JHBSPPH 5D43...	—	73,982
University of Cape Town	93.989	28292	—	22,841
University of North Carolina	93.989	5108724	4,990	55,082
University of North Carolina	93.989	5122454	11,000	37,458
Washington University	93.989	WU-22-0279	—	9,698
Subtotal			817,544	3,477,661
Maryland Department of Health: Maternal and Child Health Services Block Grant to the States	93.994	FH342GEN	—	132,313
Maryland Department of Health	93.994	FH342GEN/PHPA-G-1156	—	2,061
Subtotal			—	134,374

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Autism and Other Developmental Disabilities, Surveillance, Research, and Prevention	93.998	Direct	\$ —	425,825
Department of Health and Human Services	93.UNKNOW	Direct	3,636,933	30,864,296
Department of Health and Human Services : COVID-19	93.UNKNOW	Direct	472,751	3,551,800
Ambay Immune Sensors and Controls, LLC	93.UNKNOW	75N91020C00031	—	809
American Institutes for Research	93.UNKNOW	417400005	—	6,542
Biomedical Research Center	93.UNKNOW	75N95020P00612	—	22,252
Boston Children's Hospital	93.UNKNOW	GENFD0002021980	—	29,608
Boston College	93.UNKNOW	90095666	—	2,545
Brigham and Women's Hospital	93.UNKNOW	75N95019C00057	—	10,878
CDC Foundation	93.UNKNOW	1009	—	3,984
CDC Foundation	93.UNKNOW	1082	—	6,755
Children's Hospital of Philadelphia	93.UNKNOW	PO#: 20229106	—	6,572
Chinle Comprehensive Health Care Facility	93.UNKNOW	75H71021P00552	—	220,760
Chinle Comprehensive Health Care Facility	93.UNKNOW	HHSI245201800019A	—	51,413
Circulomics, Inc.	93.UNKNOW	SC10010	—	(322)
Columbia University	93.UNKNOW	1(GG015997-01) (On)	—	101,859
Columbia University	93.UNKNOW	1(GG015997-01)(Off)	—	230,146
Columbia University	93.UNKNOW	GG017607-02	—	55,220
Deloitte Consulting, LLP	93.UNKNOW	106719-1	—	(1,064)
Denver Health and Hospital Authority	93.UNKNOW	A21-0006-S001	—	833
Duke University	93.UNKNOW	No. 109	—	12,708
Eastern Virginia Medical School	93.UNKNOW	S230271	—	6,831
Emmes Corporation	93.UNKNOW	OTZHL142340	—	24,900
Fast-Track Drugs and Biologics, LLC	93.UNKNOW	HHSN2750008NCIG7RJH	—	39,270
Gilead Sciences, Inc.	93.UNKNOW	IMPAACT 2026	—	4,853
GlaxoSmithKline, LLC	93.UNKNOW	MA-RxRD-000000410-2019	1,360,463	1,445,125
GlaxoSmithKline, LLC	93.UNKNOW	P1093	618,546	626,231
Government of the Republic of Namibia	93.UNKNOW	90095447	—	143,054
Hennepin Healthcare Research Institute	93.UNKNOW	75R60220C00011	—	286,069
Integral Global	93.UNKNOW	75D30121P10385	—	13,630
International Business Machines	93.UNKNOW	CW31111486	—	71,456
International Business Machines	93.UNKNOW	SOW #CW2931645	—	(5,427)
James Bell Associates, Inc.	93.UNKNOW	HHSP2332015001331	—	86,119
Kaiser Foundation Research Institute	93.UNKNOW	OOS030459-JHU	—	69,780
Kennedy Krieger Institute	93.UNKNOW	BH588TEC-1	—	22,165
Leidos, Inc.	93.UNKNOW	43375	—	19,439
Leidos, Inc.	93.UNKNOW	2104290	—	22,301
Leidos, Inc.	93.UNKNOW	2201935	—	44,615
Leidos, Inc.	93.UNKNOW	2201945	—	39,351
Leidos, Inc.	93.UNKNOW	2201983	—	18,292
Leidos, Inc.	93.UNKNOW	17X175	—	2,088
Leidos, Inc.	93.UNKNOW	18X078Q	489,469	3,601,419
Leidos, Inc.	93.UNKNOW	AALL1331	—	77,060
Leidos, Inc.	93.UNKNOW	AGMT NO 20CTA-DM0004	—	686
Leidos, Inc.	93.UNKNOW	PDMR CPTAC JHU Bridg	—	130,633
Leidos, Inc.	93.UNKNOW	PO 2102869	—	47,985
Leidos, Inc.	93.UNKNOW	PO 2201938	—	60,777
Leidos, Inc.	93.UNKNOW	PO 2201944	—	66,954
Leidos, Inc.	93.UNKNOW	PO2201985	—	10,907
Leidos, Inc.	93.UNKNOW	Zhang_LEIDOS_2011739	—	(358)
Massachusetts General Hospital	93.UNKNOW	2020A011904	—	120,370
Mathematica Policy Research, Inc.	93.UNKNOW	50886S06296	—	94,742
Mayo Clinic	93.UNKNOW	JOH-272981	—	(1,220)
McKing Consulting Corporation	93.UNKNOW	JHU-01-4198	—	487,830
Mevox, LTD	93.UNKNOW	90093835	—	357,335
Michigan Public Health Institute	93.UNKNOW	Q-38853-115-504200	—	28,596
MRI Global	93.UNKNOW	698-111009-1	—	254,772
National Indian Health Board	93.UNKNOW	90097524	—	9,865
NORC at the University of Chicago	93.UNKNOW	8995_JHU.01	—	6,863
Northwestern University	93.UNKNOW	SP0033779 60044358	—	(4,163)
Northwestern University	93.UNKNOW	SP0064431 60057520	—	10,475
Northwestern University	93.UNKNOW	SP0070625 60061130	—	35,790
Oregon State University	93.UNKNOW	V0858A-B	—	165,993
Pistevo Health, LLC	93.UNKNOW	PD-0001-SDH-01	—	85,316
Radiopharmaceutical Imaging & Dosimetry	93.UNKNOW	75N91019C00040	—	167,503
Radiopharmaceutical Imaging & Dosimetry	93.UNKNOW	75N91019C00047	—	18,341
Rand Corporation	93.UNKNOW	SCON-0000232	—	17,056
Rand Corporation	93.UNKNOW	SCON-0000492	—	1,375
Research Triangle Institute	93.UNKNOW	1-340-0216610-65527L	—	667,280
Sibtech, Inc.	93.UNKNOW	0073JHU	—	75,483
Social and Scientific Systems, Inc.	93.UNKNOW	PHR-SSS-S-18-005439	—	33,732
The National Minority Quality Forum	93.UNKNOW	90094750	—	23,668
Thomas Wilson Sanitarium for Children of Baltimore City	93.UNKNOW	90059355	—	24,837
Tuba City Regional Health Care Corporation	93.UNKNOW	09062256 Serwint, J	—	87,907
UCLA Health	93.UNKNOW	144D-S-ZA115	—	74,107
University of Alabama at Birmingham	93.UNKNOW	90096829	—	2,000
University of Alabama at Birmingham	93.UNKNOW	000500918-T017-003	—	51,089
University of Alabama at Birmingham	93.UNKNOW	000524050-T007-004	—	16,307
University of Alabama at Birmingham	93.UNKNOW	000524050-T009-008	—	447
University of California San Francisco	93.UNKNOW	12555sc	—	39,629
University of Maryland Baltimore	93.UNKNOW	19-18260-G	—	93,070
University of Maryland Baltimore	93.UNKNOW	Sub No. 3002522	—	125,048
University of Mississippi Medical Center	93.UNKNOW	66111320819-01	—	7,544
University of New Mexico	93.UNKNOW	P0175177	—	1
University of North Carolina	93.UNKNOW	5119568	—	7,217
University of Washington	93.UNKNOW	UWSC12410	—	108,710
University of Wisconsin-Madison	93.UNKNOW	7546666	—	9,888
Vanderbilt University Medical Center	93.UNKNOW	VUMC81582	—	79,975
Vanderbilt University Medical Center	93.UNKNOW	VUMC89533	—	140,624
Vanderbilt University Medical Center	93.UNKNOW	VUMC97773	—	62,863
Washington University	93.UNKNOW	UWSC12410	—	(25,943)
Westat, Inc.	93.UNKNOW	6019-S22	—	41,368
Westat, Inc.	93.UNKNOW	6579-S06	—	437,828
Westat, Inc.	93.UNKNOW	75N91019F00129	—	18,114
Yale University	93.UNKNOW	GR111137(Con80002874	—	88,986
Subtotal			6,578,162	46,296,387
Department of Health and Human Services Total – Other Divisions			166,953,249	1,001,805,900
Department of Homeland Security:				
Assistance to Firefighters Grant	97.044	Direct	—	166,764
Baltimore City Health Department/Department of Homeland Security	97.UNKNOW	CO # 40151	—	205,204
Baltimore City Health Department	97.UNKNOW	CO #40010	722,849	2,128,569
Subtotal			722,849	2,500,537
Department of Homeland Security Total – Other Divisions			722,849	2,500,537

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
U.S. House of Representatives:				
U.S. House of Representatives	99.UNKNOWN	Direct	\$ —	1,103,558
U.S. House of Representatives Total – Other Divisions			—	1,103,558
Research and Development Cluster Total – Other Divisions			198,071,197	1,224,341,244
Research and Development Cluster Total			407,754,527	3,210,230,593
Cooperative Agreements:				
United States Agency for International Development:				
USAID Foreign Assistance for Programs Overseas Jhpiego	98.001	Direct	40,750,412	137,594,788
USAID Foreign Assistance for Programs Overseas Jhpiego: COVID-19	98.001	Direct	—	2,033,112
FHI 360	98.001	PO20002958	—	21,210
FHI 360	98.001	PO21001877	218,368	240,661
FHI 360	98.001	PO22000087	—	980,540
Fact, Inc.	98.001	000-011262	1,185,211	8,089,076
PATH	98.001	AID.583604-01707349.	—	353,601
PATH	98.001	AID.583717-01712921	—	210,405
Population Services International	98.001	4593-Jhpiego01July20	33,745	4,393,852
Research Triangle Institute	98.001	2-330-0216277-65185L	—	102,826
Save the Children Federation, Inc.	98.001	84001965	—	1,243,563
Save the Children Federation, Inc.	98.001	84004093	—	273,138
Save the Children Federation, Inc.	98.001	84005050	—	340,214
University Research Co., LLC	98.001	FY16-A02-7028	—	147,623
Subtotal JHPIEGO			42,187,736	156,024,609
USAID Foreign Assistance for Programs Overseas Other Divisions	98.001	Direct	33,483,167	115,152,197
USAID Foreign Assistance for Programs Overseas Other Divisions : COVID-19	98.001	Direct	285,343	1,625,602
Action Contre la Faim	98.001	JHUJAN2021	—	132,490
Amref Health Africa, Inc.	98.001	JHU CCP_IVA_002	—	262,898
EngenderHealth, Inc.	98.001	SUBA097	66,529	496,592
FHI 360	98.001	102533	—	33,438
FHI 360	98.001	PO 20001342	—	43,192
FHI 360	98.001	PO20001194	—	182,602
FHI 360	98.001	PO21001877	—	26,107
FHI 360	98.001	936	(717)	(717)
Georgetown University	98.001	411665_GR411614-JHU	—	165,135
Georgetown University	98.001	411662_GR411628-JHU-	—	213,214
IMA World Health	98.001	MIHR-JHU-001	—	63,963
IntraHealth International, Inc.	98.001	2016-13	—	39,759
Management Sciences For Health, Inc.	98.001	A587-ACCESS-2018-...	—	976,363
Palladium	98.001	Data_FI.2021-004	—	59,336
Public Health Institute	98.001	1155	—	(195)
Research Triangle Institute	98.001	1-330-0216694-65508L	—	618,657
Save the Children Federation, Inc.	98.001	999002138	—	197,359
Save the Children Federation, Inc.	98.001	999004525	—	22,539
Save the Children Federation, Inc.	98.001	720FDA18CA00051	—	640,956
Tufts University	98.001	AID-OAA-L-10-00006	—	(1,619)
Subtotal Other Divisions			33,834,322	120,949,868
Subtotal			76,022,058	276,974,477
Foreign Assistance to American Schools and Hospitals Abroad (ASHA)	98.006	Direct	—	197,539
Catholic Relief Services: Food for Peace Emergency Program (EP)	98.008	ET.22.SUBAGR.20626.2	—	47,348
United States Agency for International Development Jhpiego	98.UNKNOWN	Direct	1,357,482	15,979,771
United States Agency for International Development Jhpiego: COVID-19	98.UNKNOWN	Direct	—	134,811
ABT Associates	98.UNKNOWN	52406	—	237,066
Association of Private Health Facilities in Tanzania (APHFTA)	98.UNKNOWN	23-7424444	—	211,051
Chemomics International, Inc.	98.UNKNOWN	SUBIQC-491	—	904,617
Palladium	98.UNKNOWN	217727-JhpiegoTO2-01	—	95,815
Palladium	98.UNKNOWN	217727-JhpiegoTO3-B	—	531,111
Palladium	98.UNKNOWN	217727-JhpiegoTO4-01	—	579,369
Palladium	98.UNKNOWN	217727-JhpiegoTO5-01	—	587,329
Palladium	98.UNKNOWN	217727-JhpiegoTO6-01	—	455,269
Palladium	98.UNKNOWN	217727-JhpiegoTO7-01	—	328,348
Population Services International	98.UNKNOWN	4442-Jhpiego-21Apr18	—	12,473,053
Rios Partners	98.UNKNOWN	250667	—	(3,930)
Subtotal JHPIEGO			1,357,482	32,512,680
United States Agency for International Development Other Divisions	98.UNKNOWN	Direct	9,284,325	9,284,325
Chemomics International, Inc.	98.UNKNOWN	NAT324	—	362,788
Chemomics International, Inc.	98.UNKNOWN	SUB-938	—	52,025
Elizabeth Glaser Pediatric AIDS Foundation	98.UNKNOWN	G4848	—	1,430
Grand Challenges Canada	98.UNKNOWN	0019-P-NC-20210515-A	—	15,193
ICF International, Inc.	98.UNKNOWN	18MQSK0067	—	289,026
Making Cents International	98.UNKNOWN	LAC-APS-007	—	8,601
Panagora Group	98.UNKNOWN	72067419F0002_JHU_S	—	148,007
PATH	98.UNKNOWN	AID.574450-01707870-	—	156,717
Tetra Tech, Inc.	98.UNKNOWN	1166760	—	78,097
Tetra Tech, Inc.	98.UNKNOWN	1876-WAGE-IGS-JHU-01	—	447,394
Tetra Tech, Inc.	98.UNKNOWN	1878-CCBO-JHU-001	—	112,886
UNAIDS: Joint United Nations Programme on HIV/AIDS	98.UNKNOWN	2020/1021004	—	227,388
Subtotal Other Divisions			281,058	11,183,877
Subtotal			1,638,540	43,696,557
Agency for International Development – Cooperative Agreements Total			77,660,598	320,915,921
Student Financial Assistance:				
Department of Education:				
Federal Supplemental Educational Opportunity Grants	84.007	Direct	—	1,785,309
Federal Work-Study Program	84.033	Direct	—	1,206,627
Federal Perkins Loan	84.038	Direct	—	8,216,770
Federal Pell Grant Program	84.063	Direct	—	5,553,737
Federal Direct Student Loans	84.268	Direct	—	195,161,060
Department of Education Subtotal			—	211,983,503
Department of Health and Human Services:				
Nurse Faculty Loan Program	93.264	Direct	—	4,758,484

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Federal grantor/pass-through grantor/program or cluster title	Federal Assistance Listing number	Direct award or pass-through entity identifying number	Passed through to subrecipients	Total federal expenditures
Nursing Student Loans	93.364	Direct	\$ —	31,128
Department of Health and Human Services Subtotal			—	31,128
Nurse Faculty Loan Program balance			—	4,758,484
Student Financial Assistance Cluster Total			—	216,773,115
Other Program Awards:				
Department of Defense:				
Military Medical Research and Development	12.420	Direct	—	482,516
Information Security Grants	12.902	Direct	—	5,099
Department of Defense	12.UNKNOW	Direct	—	55,390
Department of Defense Total			—	543,005
National Aeronautics and Space Administration:				
Science	43.001	Direct	—	12,217
Exploration	43.003	Direct	—	4,797
Baylor College of Medicine	43.003	PO#700001500	—	61,933
Space Research Company, LLC	43.003	JHU-19-01	—	17,613
Subtotal			—	84,343
Office of Stem Engagement (OSTEM)	43.008	Direct	—	681,494
Space Technology	43.012	Direct	—	61,207
National Aeronautics and Space Administration Total			—	839,261
National Endowment for the Humanities:				
Promotion of the Humanities Fellowships and Stipends	45.160	Direct	—	24,999
National Endowment for the Humanities Total			—	24,999
Department of Education:				
Maryland Department of Education: State Grants—B	84.027A	220769	—	47,269
Maryland Department of Education: Individuals with Disabilities Education Act/American Rescue Plan Act of '21	84.181X	H181X210124	—	59,153
Jacob K. Javits Gifted and Talented Student Education	84.206A	Direct	164,706	300,590
Temple University: Education Research, Development and Dissemination	84.305A	267355-JHU	—	25,646
Temple University: Special Education, Transitioning to Middle School Successfully (TRAMSS)	84.324A	261770-JHU	—	90,482
Columbia University: National Professional Development (NPD program)	84.365Z	511238-02	—	89,147
Education Innovation and Research Grants – Mid-phase Grants: Education Innovation and Research Grants – Mid-phase Grants	84.411B	Direct	—	276,766
Higher Education Emergency Relief Fund (HEERF) Cluster:				
Maryland Department of Education: Education Stabilization Fund Program – Governor's Emergency Education Relief II (GEER II) Fund: COVID-19	84.425C	202021	—	192,574
Maryland Higher Education Commission: COVID-19	84.425C	GEER II-2021-8	—	(1,563)
Subtotal			—	191,011
Higher Education Emergency Relief Fund: COVID-19	84.425E	Direct	—	7,499,137
CARES Institutional: COVID-19	84.425F	Direct	—	8,768,774
Subtotal			—	16,267,911
HEERF Cluster Total			—	16,458,922
Department of Education Total			164,706	17,347,965
Department of Health and Human Services:				
Innovations in Applied Public Health Research	93.061	Direct	—	85,371
Maryland Department of Health: Environmental Public Health and Emergency Response	93.070	G1666	—	31,934
Children's Hospital of Philadelphia: Blood Disorder Program: Prevention, Surveillance, and Research	93.080	PO # 20319071	—	21,837
Maternal and Child Health Federal Consolidated Programs	93.110	Direct	—	558,225
Children's Hospital of Philadelphia	93.110	20274270	—	45,241
Subtotal			—	603,466
Injury Prevention and Control Research and State and Community Based Programs	93.136	Direct	—	275,832
University of Pittsburgh: AIDS Education and Training Centers	93.145	AWD0004438 136390-3	—	27,420
University of Pittsburgh	93.145	CNVA00050178 134540	—	(994)
University of Pittsburgh	93.145	CNVA00050178 1363193	—	240,384
Subtotal			—	266,810
National Research Service Award in Primary Care Medicine	93.186	Direct	—	84,938
Substance Abuse and Mental Health Services Projects of Regional and National Significance	93.243	Direct	11,860	65,498
Occupational Safety and Health Program	93.262	Direct	5,499	1,720,361
Provider Relief Fund and American Rescue Plan (COVID-19)	93.498	Direct	—	28,878,980
University of Pittsburgh: Public Health Training Centers Program	93.516	CNVA00061461 (134...	—	101,040
Mental and Behavioral Health Education and Training Grants - COVID-19	93.732	Direct	—	89,188
Primary Care Training and Enhancement	93.884	Direct	—	571,722
University of Pittsburgh: HIV Emergency Relief Project Grants	93.914	AWD0002368 (134508-3	—	33,952
HIV Demonstration, Research, Public and Professional Education Projects	93.941	Direct	—	(1,312)
PPHF Geriatric Education Centers	93.969	Direct	223,021	758,029
PPHF Geriatric Education Centers : COVID-19	93.969	Direct	—	1,279
Subtotal			223,021	759,308
Sexually Transmitted Diseases (STD) Provider Education Grants	93.978	Direct	—	425,867
Baltimore City Health Department: Maternal and Child Health Services Block Grant to the States	93.994	40237	—	2,778
University of Maryland Medical System: Department of Health and Human Services	93.UNKNOW	Subaward No.: 300065	—	7,161
Department of Health and Human Services Total			240,380	34,024,731
Total - Other Divisions			405,086	52,779,961
Total expenditures of federal awards			\$ 485,820,211	3,800,699,590

See accompanying independent auditors' report.

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

(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, 2022. 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.

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

(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, 2022 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

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

negotiated percentages of direct expenditures, with certain exclusions. F&A costs allocated to such awards for the year ended June 30, 2022 were based on predetermined rates established with DHHS, the University's cognizant federal agency. The University did not elect to apply the 10% De Minimis 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, 2022 are summarized as follows (in thousands):

Research and development	\$	323,825
Cooperative agreements:		
Jhpiego Corporation		22,079
Other		15,495
Training and other similar agreements		715
Total	\$	362,114

(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, 2022 are summarized as follows (in thousands):

APL:

Air Force	\$	107,400
Army		14,132
Defense Advanced Research Project Agency		57,524
Defense Health Agency		2,958
Defense Information Systems Agency		11,495
Joint Artificial Intelligence Center		354
Maryland Procurement Office		33,152
Missile Defense Agency		178,209
National Reconnaissance Office		2,732
National Geospatial-Intelligence Agency		1,032
Navy and Office of Naval Research		647,363
Office of the Under Secretary of Defense for Intelligence		731
Space Development Agency		4,803
Uniformed Services University of the Health Services		1,194
US Cyber Command		4,196
US Government (highly classified contracts)		183,649
Washington Headquarters Services		165,278
Other		(14)
Total APL		1,416,188

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

Other divisions:

Air Force	\$	7,421
Army		71,591
Defense Advanced Research Project Agency		5,540
Defense Threat Reduction Agency		4,884
Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense		747
Military Health System		1,501
National Security Agency		6,908
Navy and Office of Naval Research		27,011
Office of Under Secretary for Defense		68
Uniformed Services University of the Health Services		330
Washington Headquarters Services		<u>2,667</u>
Total other divisions		<u>128,668</u>
Total DOD	\$	<u><u>1,544,856</u></u>

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.

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

(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, 2022 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:				
John E. Fogarty International Center	\$ 3,490	—	—	3,490
National Cancer Institute	92,699	—	—	92,699
National Center for Complementary and Integrative Health	1,593	—	—	1,593
National Center on Minority Health and Health Disparities	7,475	—	—	7,475
National Center for Research Translational Sciences (NCATS)	24,029	—	—	24,029
National Eye Institute	25,899	—	—	25,899
National Heart, Lung and Blood Institute	95,257	—	—	95,257
National Human Genome Research Institute	13,356	—	—	13,356
National Institute of Allergy and Infectious Diseases	159,111	—	—	159,111
National Institute of Arthritis and Musculoskeletal and Skin Diseases	11,923	—	—	11,923
National Institute of Child Health and Human Development	28,858	—	—	28,858
National Institute of Dental and Craniofacial Research	4,335	—	—	4,335
National Institute of Diabetes and Digestive and Kidney Diseases	39,242	—	—	39,242
National Institute of Environmental Health Sciences	8,827	—	—	8,827
National Institute of General Medical Sciences	52,512	—	—	52,512
National Institutes of Health – Clinical Center	174	—	—	174
National Institute of Health – Office of the Director	25,773	—	—	25,773
National Library of Medicine	847	—	—	847
National Institute of Mental Health	39,142	—	—	39,142
National Institute of Neurological Disorders and Stroke	64,014	—	—	64,014
National Institute of Nursing Research	3,562	—	—	3,562
National Institute on Aging	88,612	—	—	88,612
National Institute on Alcohol Abuse and Alcoholism	6,181	—	—	6,181
National Institute on Drug Abuse	42,535	—	—	42,535
National Institute on Biomedical Imaging and Bioengineering	17,001	—	—	17,001
National Institute on Deafness and Other Communication Disorders	—	—	—	—
National Institutes of Health: Clinical Center	17,773	—	—	17,773
Other NIH	—	—	2,849	2,849
Total NIH	874,220	—	2,849	877,069

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

DHHS Funding Source	Research and development (R&D)	Student financial aid, training and other	APL (R&D)	Total
Administration for Children and Families	\$ 1,942	—	—	1,942
Administration for Community Living	763	—	—	763
Agency for Healthcare Research and Quality	11,010	—	—	11,010
Assistant Secretary for Planning and Evaluation	18	—	—	18
Assistant Secretary for Preparedness and Response	573	—	—	573
Centers for Disease Control and Prevention	71,413	2,567	5,766	79,746
Centers for Medicare and Medicaid Services	117	—	—	117
Food and Drug Administration	4,931	—	—	4,931
Health Resources and Services Administration	32,133	7,303	—	39,436
Office of Adolescent Health	157	—	—	157
Office of Minority Health	29	—	—	29
Office of the Assistant Secretary for Health	243	—	—	243
Office of Population Affairs	205	—	—	205
Indian Health Service	646	—	—	646
Substance Abuse and Mental Health Services Administration	3,406	65	—	3,471
DHHS-other sources	—	—	2,921	2,921
Provider Relief Fund and American Rescue Plan	—	28,879	—	28,879
Total DHHS	\$ <u>1,001,806</u>	<u>38,814</u>	<u>11,536</u>	<u>1,052,156</u>

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

(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, 2022 are summarized as follows (in thousands):

CFDA	Grant identifier	Total
98.001	AID-OAA-A-17-00017	\$ 83,960
98.001	7200AA19CA00003	49,197
98.001	7200AA20CA00002	33,883
98.001	72030620CA00007	13,722
98.001	72038619CA00001	11,415
98.001	72038620CA00001	10,713
98.001	000-011262	8,089
98.001	72065620CA00001	7,188
98.001	72061720CA00005	6,297
98.001	72052020CA00001	5,483
98.001	72066320CA00008	5,458
98.001	AID-675-A-16-00001	5,233
98.001	7200AA19CA00001	5,086
98.001	7200AA20CA00033	4,825
98.001	4593-Jhpiego01July20	4,394
98.001	AID-482-A-17-00002	4,062
98.001	72061220CA00001	2,980
98.001	AID-388-A-17-00002	2,117
98.001	72068521CA00005	1,989
98.001	84001965	1,244
98.001	PO22000087	981
98.001	A587-ACCESS-2018-	976
98.001	AID-621-A-16-00003	952
98.001	720FDA18CA00051	641
98.001	1-330-0216694-65508L	619
98.001	AID-OAA-LA-15-00003	518
98.001	SUBA097	497
98.001	720FDA20GR00228	463
98.001	AID-OAA-A-15-00064	385
98.001	AID.583604-01707349.	354
98.001	84005050	340
98.001	720FDA19GR00205	325
98.001	84004093	273
98.001	PO21001877	267
98.001	JHU CCP_IYA_002	263
98.001	Other Grants less than \$200k	1,787
	98.001 Total	276,976

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

<u>CFDA</u>	<u>Grant identifier</u>	<u>Total</u>
98.006	Other Grants less than \$200k	\$ 198
		<u>198</u>
		<u>47</u>
98.007	Grants less than \$200k	<u>47</u>
98.UNKNOWN	4442-Jhpiego-21Apr18	12,473
98.UNKNOWN	72062120C00001	9,257
98.UNKNOWN	72066920C00002	6,299
98.UNKNOWN	72061121C00004	4,291
98.UNKNOWN	72067421C00001	3,956
98.UNKNOWN	72062122C00004	1,596
98.UNKNOWN	SUBIQC-491	905
98.UNKNOWN	217727-JhpiegoTO5-01	587
98.UNKNOWN	217727-JhpiegoTO4-01	578
98.UNKNOWN	217727-JhpiegoTO3-B	531
98.UNKNOWN	217727-JhpiegoTO6-01	455
98.UNKNOWN	1876-WAGE-IQS-JHU-01	447
98.UNKNOWN	NAT324	363
98.UNKNOWN	217727-JhpiegoTO7-01	328
98.UNKNOWN	18MQSK0067	289
98.UNKNOWN	Other Grants less than \$200k	<u>1,340</u>
		<u>43,695</u>
		\$ <u><u>320,916</u></u>

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

(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, 2022 are summarized as follows (in thousands):

	Total
APL:	
Department of Commerce	\$ 1,560
Department of Energy	1,041
Department of Homeland Security	32,913
Department of Justice	1,979
Department of State	1,933
Department of the Treasury	1,019
Department of Transportation	5,895
Federal Deposit Insurance Corporation	1,102
Intelligence Advanced Research Projects Activity	9,944
National Aeronautics and Space Administration	423,877
National Science Foundation	2,773
Social Security Administration	4,958
US Government (highly classified contracts)	68,864
Other sources	307
Total other federal-APL	558,165
Other divisions:	
Department of Agriculture	3,421
Department of Commerce	4,189
Department of Education	26,615
Department of Energy	12,448
Department of Homeland Security	2,501
Department of Housing and Urban Development	1,019
Department of Interior	894
Department of Justice	827
Department of State	2,575
Department of Transportation	415
Department of Veteran Affairs	85
Director of National Intelligence	1,401
Environmental Protection Agency	1,030
National Aeronautics and Space Administration	12,597
National Archives and Records Administration	9
National Endowment for the Humanities	190
National Science Foundation	41,306
U.S. House of Representatives	1,104
Total other federal-other divisions	112,626

THE JOHNS HOPKINS UNIVERSITY

Notes to Schedule of Expenditures of Federal Awards

June 30, 2022

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, \$1,937,435, 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 \$8,216,770, \$4,758,484, and \$0, respectively, as of June 30, 2022. (NSL was closed out in June 2022 and there are no remaining obligations or balances due to HRSA).

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, 2022. Direct loans issued during the year ended June 30, 2022 are included on the Schedule.

SECTION C



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 University's consolidated balance sheet as of June 30, 2022, 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 7, 2022.

Report on 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) as a basis for designing 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 a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's consolidated 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 or significant deficiencies may exist that were not identified.

Report on 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 financial statements. 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*.



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 7, 2022

SECTION D



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

Opinion on Each Major Federal Program

We have audited The Johns Hopkins University's (The University) compliance with the types of compliance requirements identified as subject to audit 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, 2022. The University's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

In our opinion, the University complied, in all material respects, with the compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2022.

Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America (GAAS); 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). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditors' Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the University and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the University's compliance with the compliance requirements referred to above.

Responsibilities of Management for Compliance

Management is responsible for compliance with the requirements referred to above and for the design, implementation, and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules and provisions of contracts or grant agreements applicable to the University's federal programs.

Auditors' Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the University's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS,



Government Auditing Standards, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the University's compliance with the requirements of each major federal program as a whole.

In performing an audit in accordance with GAAS, *Government Auditing Standards*, and the Uniform Guidance, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the University's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- Obtain an understanding of the University's internal control over compliance relevant to the audit in order to design audit procedures that are appropriate in the circumstances 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 the University's internal control over compliance. Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

Report on 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 Auditors' Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal control over compliance may exist that were not identified.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

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, 2022, and have issued our report thereon dated October 7, 2022, 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 GAAS. 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

Baltimore, Maryland
March 17, 2023

SECTION E

THE JOHNS HOPKINS UNIVERSITY
Schedule of Findings and Questioned Costs
Year ended June 30, 2022

(1) Summary of Auditors' Results

- 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 the financial statements: **No**
- d. Internal control deficiencies over major programs disclosed by the audit:
 - Material weaknesses: **No**
 - Significant deficiencies: **None reported**
- e. Type of report issued on compliance for major programs: **Unmodified**
- f. Audit findings that are required to be reported in accordance with 2 CFR 200.516(a): **No**
- g. Major programs:
 - Research and Development Cluster – **various Assistance Listing numbers**
 - Education Stabilization Fund (COVID-19): **Assistance Listing number 84.425**
 - Provider Relief Fund and American Rescue Plan (COVID-19): **Assistance Listing number 93.498**
- h. Dollar threshold used to distinguish between Type A and Type B programs: **\$11,402,099**
- i. Auditee qualified as a low-risk auditee: **Yes**

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

None

(3) Findings and Questioned Costs Relating to Federal Awards

None