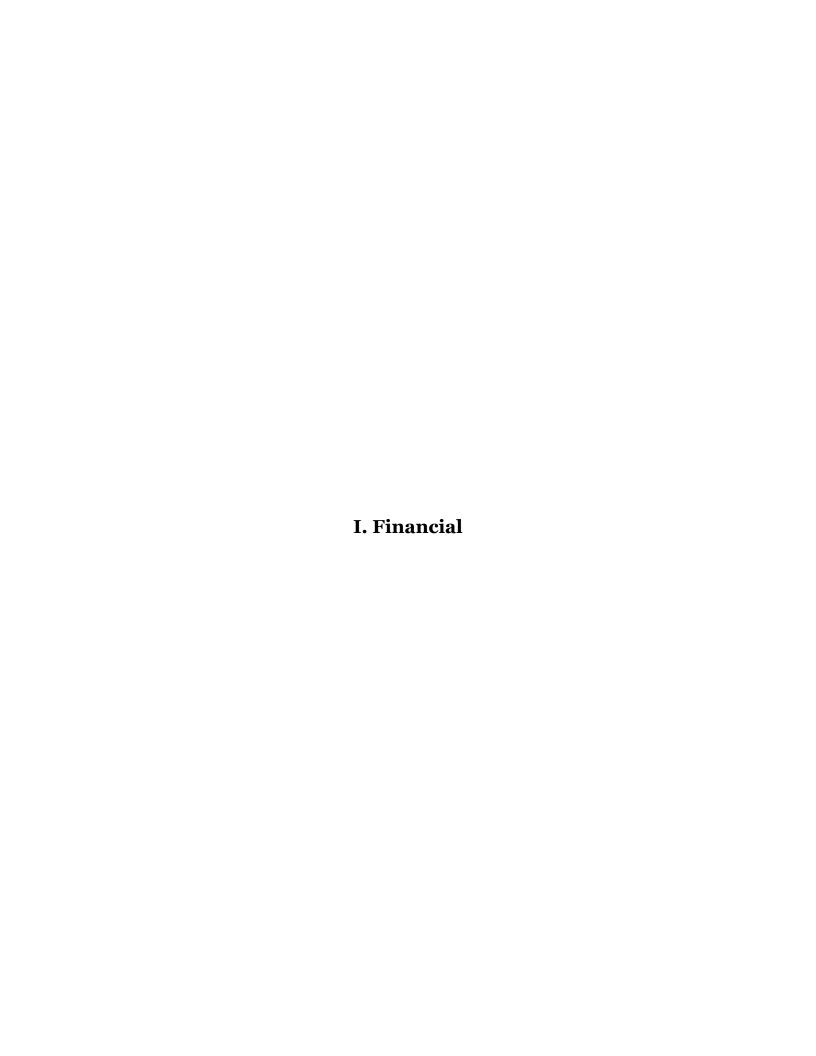
University of Pennsylvania

Philadelphia, Pennsylvania Reports on Federal Awards in Accordance with OMB Uniform Guidance June 30, 2023 Federal Entity Identification Number 23-1352685

University of Pennsylvania Reports on Federal Awards in Accordance with OMB Uniform Guidance Index June 30, 2023

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Report of Independent Auditors

To the Trustees of the University of Pennsylvania

Report on the Audit of the Consolidated Financial Statements

Opinion

We have audited the accompanying consolidated financial statements of the University of Pennsylvania and its subsidiaries (the "University"), which comprise the consolidated statements of financial position as of June 30, 2023 and 2022, and the related consolidated statements of activities and of cash flows for the years then ended, including the related notes (collectively referred to as the "consolidated financial statements").

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the University as of June 30, 2023 and 2022, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (US 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 audit. 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 accounting principles generally accepted in the United States of America, 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 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 financial statements are issued.



Auditors' Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the 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 US 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 financial statements.

In performing an audit in accordance with US 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.

Supplemental Information

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 for the year ended June 30, 2023, is presented for purposes of additional analysis as required by Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance) and is not a required part of the consolidated financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the consolidated financial statements. The information has been subjected to the auditing procedures applied in the audit of the consolidated financial statements and certain additional procedures, including comparing and reconciling



such information directly to the underlying accounting and other records used to prepare the consolidated financial statements or to the consolidated financial statements themselves, and other additional procedures, in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated, in all material respects, in relation to the consolidated financial statements taken as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated September 28, 2023, on our consideration of the University's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters for the year ended June 30, 2023. 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 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.

Philadelphia, Pennsylvania September 28, 2023

PricawaterhouseCoopers LLP

CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

University of Pennsylvania (in thousands)

	June 30,				
		2022			
ASSETS					
Cash and cash equivalents	\$	3,217,099	\$	3,163,942	
Accounts receivable, net		1,816,464		1,925,027	
Contributions receivable, net		447,413		513,788	
Loans receivable, net		53,022		59,809	
Other assets		1,244,642		1,011,588	
Investments, at fair value		23,090,536		22,484,283	
Property, plant and equipment, net		9,463,058		9,391,124	
TOTAL ASSETS	\$	39,332,234	\$	38,549,561	
LIABILITIES					
Accounts payable	\$	388,701	\$	393,273	
Accrued expenses and other liabilities		4,065,419		3,847,063	
Deferred income		189,706		200,658	
Deposits and advances		217,594		234,653	
Federal student loan advances		32,756		39,894	
Accrued retirement benefits		290,669		466,605	
Debt obligations		4,393,519		4,492,228	
TOTAL LIABILITIES		9,578,364		9,674,374	
NET ASSETS					
Without donor restrictions		18,814,722		17,808,212	
With donor restrictions		10,939,148		11,066,975	
TOTAL NET ASSETS		29,753,870		28,875,187	
TOTAL LIABILITIES AND NET ASSETS	\$	39,332,234	\$	38,549,561	

CONSOLIDATED STATEMENTS OF ACTIVITIES

University of Pennsylvania for the years ended June 30, 2023 and 2022 (in thousands)

	2023	2022
WITHOUT DONOR RESTRICTIONS:		
REVENUE AND OTHER SUPPORT		
Tuition and fees, net	\$ 1,361,445	\$ 1,310,603
Commonwealth appropriations	36,740	35,144
Sponsored programs	1,333,422	1,270,036
Contributions and donor support	239,165	210,892
Investment income	1,121,483	873,500
Net patient service revenue	8,718,133	8,094,673
Other income	2,182,485	2,632,107
TOTAL REVENUE AND OTHER SUPPORT	14,992,873	14,426,955
EXPENSES		
Compensation and benefits	7,742,714	7,209,286
Depreciation and amortization	650,251	623,457
Interest on indebtedness	139,741	127,997
Other operating expenses	5,324,442	4,807,895
TOTAL EXPENSES	13,857,148	12,768,635
INCREASE IN NET ASSETS FROM OPERATIONS	1,135,725	1,658,320
NONOPERATING ACTIVITIES		
Return on investments, net of amounts classified as operating revenue	(472,278)	(662,663)
Pension, OPEB and other, net	204,662	854,025
Contributions and donor support for capital related activities	138,401	54,603
TOTAL NONOPERATING ACTIVITIES	(129,215)	245,965
INCOPACE IN NET ACCETS WITHOUT DONOR DESTRICTIONS	1 000 510	1 004 305
INCREASE IN NET ASSETS WITHOUT DONOR RESTRICTIONS	1,006,510	1,904,285
WITH DONOR RESTRICTIONS:		
Contributions	450,788	582,712
Return on investments, net	175,674	3,302
Net assets released from restrictions	(754,289)	(564,182)
(DECREASE) INCREASE IN NET ASSETS WITH DONOR RESTRICTIONS	(127,827)	21,832
INCREASE IN TOTAL NET ASSETS	878,683	1,926,117
Total net assets, beginning of year	28,875,187	26,949,070
TOTAL NET ASSETS, END OF YEAR	\$ 29,753,870	\$ 28,875,187

CONSOLIDATED STATEMENTS OF CASH FLOWS

University of Pennsylvania for the years ended June 30, 2023 and 2022 (in thousands)

	2023	2022
CASH FLOWS FROM OPERATING ACTIVITIES:		
Increase in total net assets	\$ 878,683	\$ 1,926,117
Adjustments to reconcile increase in total net assets to		
net cash provided by operating activities:		
Depreciation and amortization	631,017	601,252
Provision for bad debts	12,639	10,655
(Gain) loss on investments, net	(123,364)	367,312
Loss on disposal of property, plant and equipment	17,741	6,338
Donated equipment	(137)	. , ,
Receipt of contributed securities	(126,050)	(132,109)
Proceeds from contributed securities	42,898	31,810
Receipt of contributions designated for the acquisition of		
long-lived assets and long-term investment	(259,864)	(285,814)
Pension, OPEB and other, net	(204,662)	(854,025)
Changes in operating assets and liabilities:		
Accounts and loans receivable	102,105	(205,196)
Contributions receivable	66,980	(39,936)
Other assets	(54,541)	
Accounts payable, accrued expenses and accrued retirement benefits	(401,949)	(356,240)
Deposits and advances	(17,103)	
Deferred income	(10,952)	9,961
NET CASH PROVIDED BY OPERATING ACTIVITIES	553,441	1,048,423
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchase of investments	(16,688,794)	(18,713,752)
Proceeds from sale of investments	16,946,009	18,958,408
Purchase of property, plant and equipment	(780,336)	
NET CASH USED BY INVESTING ACTIVITIES	(523,121)	
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from contributions received designated for the		
acquisition of long-lived assets and long-term investment	259,864	285,815
Proceeds from contributed securities received designated for the	233,001	203,013
acquisition of long-lived assets and long-term investment	81,050	101,799
Federal student loan repayments	(7,139)	
Repayment of debt obligations	(81,405)	
Proceeds from issuances of debt obligations	16,419	125,129
NET CASH PROVIDED BY FINANCING ACTIVITIES	268,789	290,706
NET INCOPEACE IN CACH AND CACH FOUNDALENTS		
NET INCREASE IN CASH AND CASH EQUIVALENTS	299,109	715,547
Cash and cash equivalents, beginning of year	3,173,252	2,457,705
CASH AND CASH EQUIVALENTS, END OF YEAR	\$ 3,472,361	\$ 3,173,252
RECONCILIATION TO CONSOLIDATED STATEMENTS OF FINANCIAL POSITION:		
Cash and cash equivalents, Consolidated Statements of Financial Position	\$ 3,217,099	\$ 3,163,942
Cash included in Investments, at fair value	255,262	9,310
CASH AND CASH EQUIVALENTS, END OF YEAR		
CASH AND CASH EQUIVALENTS, END OF TEAK	\$ 3,472,361	3,1/3,232 ب
SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION:		
Cash paid for interest, net of amounts capitalized	\$ 150,335	\$ 138,357
Decrease in accrued plant, property and equipment	(6,377)	
Operating cash flows for operating leases	78,911	
		76,260
Right-of-use assets obtained in exchange for lease liabilities	116,114	70,727

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Organization

The University of Pennsylvania ("University"), located in Philadelphia, Pennsylvania, is an independent, nonsectarian, not-for-profit institution of higher learning founded in 1740. The University Academic Component ("Academic Component") provides educational services, primarily for students at the undergraduate, graduate, professional and postdoctoral levels and performs research, training and other services under grants, contracts and similar agreements with sponsoring organizations, primarily departments and agencies of the United States Government. The University also operates an integrated health care delivery system, the University of Pennsylvania Health System ("UPHS"). The University is a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code.

Basis of Presentation

The consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") and include the accounts of the University and its subsidiaries over which the University exercises control. All material transactions between the University and its subsidiaries are eliminated in consolidation. Investments in subsidiaries over which the University has the ability to exercise significant influence are reported using the equity method of accounting. Other investments in subsidiaries are reported using the measurement alternative – at cost adjusted for impairment, if any, unless an observable transaction for an identical or similar security occurs.

The net assets of the University are classified and reported as follows:

<u>Without donor restrictions</u> – includes net assets that are not subject to donor-imposed restrictions.

With donor restrictions – includes net assets that are (i) subject to legal or donor-imposed restrictions that will be met by actions of the University and/or the passage of time, and (ii) the original values of donor restricted net assets, the use of which is limited to investment and can only be appropriated for expenditure by the University in accordance with the Pennsylvania Uniform Principal and Income Act (Pennsylvania Act).

Expenses are reported as a decrease in net assets without donor restrictions. Gains and losses associated with property, plant and equipment disposals are included in Other income and Other operating expenses, respectively. Gains and losses on investments are included in Return on investments, net and are reported as increases or decreases in net assets without donor restrictions unless their use is restricted by explicit donor stipulation or by law. Gains or losses associated with all other activities, such as debt retirements and pension and postretirement plan actuarial valuation adjustments, are reported in Pension, other postretirement employee benefits (OPEB) and other, net. Donor-restricted resources intended for the acquisition or construction of long-lived assets are initially reported as net assets with donor restrictions and released from restrictions to net assets without donor restrictions when the asset is placed in service or in accordance with donor-specified terms.

Expirations of restrictions on contributions and investment income, reported as Net assets released from restrictions, and the corresponding amounts are included in the Consolidated Statements of Activities as follows (in thousands):

Net Assets Without Donor Restrictions	2023	2022
Contributions and donor support	\$ 154,965	\$ 125,506
Investment income	460,923	384,073
Contributions and donor support for capital related activities	138,401	54,603
Net assets released from restrictions	\$ 754,289	\$ 564,182
Net Assets With Donor Restrictions	2023	2022
Net Assets With Donor Restrictions	2023	2022
Net assets released from restrictions	\$ (754,289)	\$ (564,182)

Fair Value

The University values certain financial and non-financial assets and liabilities by applying the Financial Accounting Standards Board (FASB) pronouncement on Fair Value Measurements. The pronouncement defines fair value and establishes a framework for measuring fair value that includes a hierarchy that categorizes and prioritizes the sources used to measure and disclose fair value. 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 (an exit price). The hierarchy is broken down into three levels based on inputs that market participants would use in valuing the asset or liability and are developed based on market data obtained from sources independent of the University as follows:

<u>Level 1</u>: Unadjusted quoted market prices in active markets for identical assets or liabilities.

<u>Level 2</u>: Unadjusted quoted prices in active markets for similar assets or liabilities, unadjusted quoted prices for identical or similar assets or liabilities in markets that are not active, or inputs other than quoted prices that are observable.

<u>Level 3</u>: Unobservable inputs for the asset or liability.

Inputs broadly refer to the assumptions that market participants use to make valuation decisions, including assumptions about risk. Inputs may include price information, volatility statistics, specific and broad credit data, liquidity statistics and other factors. The University is required by the pronouncement to maximize the use of observable inputs (Levels 1 and 2) and minimize the use of unobservable inputs (Level 3). The University considers observable data to be that market data which is readily available, regularly distributed or updated, reliable and verifiable, not proprietary and provided by independent sources that are actively involved in the relevant market. The categorization of a financial instrument within the hierarchy is based upon the pricing transparency of the instrument and does not necessarily correspond to the University's perceived risk of that instrument.

Assets and liabilities are disclosed in the Notes to Consolidated Financial Statements within the hierarchy based on the lowest (or least observable) input that is significant to the measurement. The University's assessment of the significance of an input requires judgment, which may affect the valuation and categorization within the fair value hierarchy. The fair value of assets and liabilities using Level 3 inputs are generally determined by using pricing models or discounted cash flow methods, which all require significant management judgment or estimation.

As a practical expedient, the University is permitted to estimate the fair value of an investment in an investment company at the measurement date using the reported net asset value (NAV). Adjustment is required if the University expects to sell the investment at a value other than NAV or if the NAV is not calculated in accordance with U.S. GAAP. The University holds investments in its portfolio which are generally valued based on the most current NAV. This

amount represents fair value of these investments at June 30, 2023 and 2022. Investments reported at NAV, as a practical expedient, are not included within levels 1, 2, or 3 in the fair value hierarchy.

The University performs additional procedures, including due diligence reviews, on its investments in investment companies and other procedures with respect to the capital account or NAV provided to ensure conformity with US GAAP. The University has assessed factors including, but not limited to, managers' compliance with the Fair Value Measurement standard, price transparency and valuation procedures in place.

Cash and Cash Equivalents

Cash equivalents include demand deposits and liquid investments available for current operations with maturities of three months or less, which would be considered Level 1 investments under the fair value hierarchy. All short-term, highly liquid investments, otherwise qualifying as cash equivalents or restricted cash equivalents, included in the University's investments are treated as Investments, at fair value and are therefore excluded from Cash and cash equivalents in the Statements of Cash Flows.

Investments, at Fair Value

The majority of the University's investments are held in the Associated Investments Fund (AIF). The AIF is invested in accordance with the investment policies set out by an Investment Board which has been appointed by the Trustees of the University of Pennsylvania (the Trustees). The Office of Investments is responsible for the day-to-day management of the AIF including identifying, selecting and monitoring a variety of external investment managers to implement the strategic asset allocation set forth by the Investment Board. The AIF may include marketable and not readily marketable securities that it intends to hold for an indefinite period of time. The University also holds other investments which are not invested in the AIF due to various restrictions. The majority of these investments are in highly liquid short-term and equity type investments. Changes in the fair value of investments are reported in Return on investments, net in the Consolidated Statements of Activities. The following is a summary of the investments held in the AIF by asset allocation, as well as investment risk:

Short-Term

Short-term investments include cash equivalents and fixed income investments with maturities of less than one year. Short-term investments are valued using observable market data and are categorized as Level 1 based on quoted market prices in active markets. The majority of these short-term investments are held in a US Treasury money market account.

Equity

Equity investments consist of direct holdings of public securities in managed accounts as well as mutual funds and private funds. The securities held in managed accounts, along with mutual funds, are generally valued based on quoted market prices in active markets obtained from exchange or dealer markets for identical assets, and are accordingly categorized as Level 1. Private funds are valued at NAV.

Debt

Debt investments consist of direct holdings of securities in managed accounts and private funds. Securities such as US Treasuries, held in managed accounts, are valued based on quoted market prices in active markets and are categorized as Level 1. Securities such as corporate and sovereign bonds, also held in managed accounts, are valued based on quoted market prices or dealer or broker quotations and are categorized as Level 2 or in the cases where inputs are unobservable as Level 3. Private funds are valued at NAV.

Absolute Return

Absolute return investments are made up of allocations to private funds. The fund managers of these private funds invest in a variety of securities, based on the strategy of the fund, which may or may not be quoted in an active market. Private funds are valued at NAV.

Private Equity

Investments in private equity are in the form of private funds. The fund managers primarily invest in investments for which there is no readily determinable market value. The fund managers may value the underlying private investments based on an appraised value, discounted cash flow, industry comparables or some other method. These private fund investments are valued at NAV.

Real Assets

Investments in real assets are made up of private funds and securities in managed accounts. The fund managers of these private funds primarily invest in investments for which there is no readily determinable market value. The fund managers may value the underlying private investments based on an appraised value, discounted cash flow, industry comparables or some other method. These private fund investments are valued at NAV. The securities held in managed accounts are generally valued based on quoted market prices in active markets obtained from exchange or dealer markets for identical assets, and are accordingly categorized as Level 1.

Derivative Instruments

The University, in the normal course of business, utilizes derivative financial instruments in connection with its investment activity. Derivatives utilized by the University include futures, options, swaps and forward currency contracts and are reflected at fair value following the definition of Level 1 and 2 assets and liabilities as previously described. Investments in derivative contracts are subject to foreign exchange and equity price risks that can result in a loss of all or part of an investment. In addition, the University is also subject to additional counterparty risk should its counterparties fail to meet the terms of their contracts.

Investment Risks

The University's investing activities expose it to a variety of risks including market, credit and liquidity risks. The University attempts to identify, measure and monitor risk through various mechanisms including risk management strategies and credit policies.

Market risk is the potential for changes in the fair value of the University's investment portfolio. Commonly used categories of market risk include currency risk (exposure to exchange rate differences between functional currency relative to other foreign currencies), interest rate risk (changes to prevailing interest rates or changes in expectations of futures rates) and price risk (changes in market value other than those related to currency or interest rate risk, including the use of NAV provided).

Credit risk is the risk that one party to a financial investment will cause a financial loss for the other party by failing to discharge an obligation (counterparty risk).

Liquidity risk is the risk that the University will not be able to meet its obligations associated with financial liabilities.

Endowment

The University's endowment consists of 7,695 donor-restricted endowment funds and 1,006 quasi-endowment funds established by management for a variety of purposes. The University reports all endowment investments at fair value. Most of the endowment funds of the University have been pooled in the University's AIF. The endowment funds not pooled in the AIF are primarily invested in equities and bonds.

The Commonwealth of Pennsylvania has not adopted the Uniform Management of Institutional Funds Act (UMIFA) or the Uniform Prudent Management of Institutional Funds Act (UPMIFA). Rather, the Pennsylvania Act governs the investment, use and management of the University's endowment funds.

The Pennsylvania Act does not require the preservation of the fair value of a donor's original gift as of the gift date of a donor-restricted endowment fund, absent explicit donor stipulations to the contrary. However, based on its interpretation of the Pennsylvania Act and relevant accounting literature, the University classifies the following as net assets with donor restrictions for reporting purposes: (i) the original value of donated assets required to be invested in perpetuity; (iii) accumulations to the donated assets invested in perpetuity made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund; and (iv) donated assets and accumulations that are subject to legal or donor-imposed restrictions that will be met by actions of the University and/or the passage of time. The Pennsylvania Act allows a nonprofit to elect to appropriate for expenditure between 2% and 7% (increased to 10% for fiscal years 2020 through 2022) of the endowment fair value, determined at least annually and averaged over a period of three or more preceding years, including funds whose fair value is less than the original donated value.

In accordance with the Pennsylvania Act, the University has elected to adopt and follow an investment policy seeking a total return for the investments held by the AIF, whether the return is derived from appreciation of capital or earnings and distributions with respect to capital or both. The endowment spending policy which the Board of Trustees has elected to govern the expenditure of funds invested in the AIF, including funds whose fair value is less than the original donated value, is designed to manage annual spending levels and is independent of the cash yield and appreciation of investments for the year. For fiscal year 2023, the spending rule payout is based on the sum of: (i) 70% of the prior fiscal year distribution adjusted by an inflation factor; and (ii) 30% of the prior fiscal year-end fair value of the AIF, lagged one year, multiplied by a 5% target spending rate for all funds. The payout or allocation to operations exceeded actual income, net of expenses, by \$975,606,000 and \$876,619,000 in 2023 and 2022, respectively.

Property, Plant and Equipment

Property, plant and equipment (PPE) is reported net of related depreciation. Donated PPE is reported based on estimated fair value at the date of acquisition. All other PPE is reported at cost. Depreciation is computed on the straight-line method over the estimated useful lives of the assets, or the shorter of the lease term or estimated useful life for leased assets. Contributions of library materials, as well as rare books and other collectibles, are not recorded for financial statement presentation, while purchases are recorded as Other operating expenses on the Consolidated Statement of Activities in the period acquired.

Split-Interest Agreements

The University's split-interest agreements with donors consist of irrevocable charitable remainder trusts, charitable gift annuities, pooled income funds, perpetual trusts and charitable lead trusts. Assets are invested and payments are made to donors and/or other beneficiaries in accordance with the respective agreements.

The University recognizes assets contributed to charitable remainder trusts, charitable gift annuities and pooled income funds, where it serves as trustee, at fair value, recognizes a liability to the beneficiaries based on the present value of the estimated future payments to beneficiaries to be made over the estimated remaining life of those beneficiaries using current market rates at the date of the contribution, and recognizes the difference as contribution revenue. Subsequently, the trust assets, invested in equity and debt securities, are measured at fair value at quoted market prices, and are categorized as Level 1, with the changes reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. Liabilities to beneficiaries are revalued based on current market rates, and are categorized as Level 2, with the changes reported as an adjustment to Accrued expense and other liabilities on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities.

Charitable remainder trust assets, where the University does not serve as trustee, are initially valued using the current fair value of the underlying assets, using observable market inputs based on its beneficial interest in the trust, discounted to a single present value using current market rates at the date of the contribution. The initially contributed assets are categorized as Level 3, and reported as Investments, at fair value on the Consolidated Statements of Financial Position and Contribution revenue on the Consolidated Statements of Activities. Subsequent valuation follows this same approach with changes in fair value reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. The primary unobservable input used in the fair value measurement of the charitable remainder trust assets is the discount rate.

Perpetual trust assets are initially valued at the current fair value of the underlying assets using observable market inputs based on its beneficial interest in the trust. The initially contributed assets are categorized as Level 3 and are reported as Investments, at fair value on the Consolidated Statements of Financial Position and as Contribution revenue on the Consolidated Statements of Activities. Subsequent valuation follows this same approach with changes in fair value reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. The primary unobservable inputs used in the fair value measurement of the perpetual trust assets are the underlying securities held by the trust.

The University reports charitable lead trust assets by discounting future cash flows using current market rates at the measurement date, matched to the payment period of the agreement. The initially contributed assets are categorized as Level 3, and reported as Investments, at fair value on the Consolidated Statements of Financial Position and as Contribution revenue on the Consolidated Statements of Activities. Subsequent valuation follows this same approach with changes in fair value reported as an adjustment to Investments, at fair value on the Consolidated Statements of Financial Position and Return on investments, net on the Consolidated Statements of Activities. The primary unobservable input used in the fair value measurement of the charitable lead trust assets is the discount rate.

Income Taxes

The University is a tax-exempt organization under Section 501(c)(3) of the Internal Revenue Code. Most of its activities and income are related to its exempt purposes and are exempt from federal and state income taxes. None of its activities and income is subject to Pennsylvania income tax. Unrelated activities and income are subject to both city and federal "Unrelated Business Income Tax."

The Tax Cuts and Jobs Act (the "Act"), enacted on December 22, 2017, impacts the University in several ways, including the addition of excise taxes on executive compensation and net investment income, as well as new rules for calculating unrelated business taxable income. The University records an estimate for related tax expense based on currently available regulatory guidance of the Act. Additionally, The University has made provisions for deferred taxes, representing future excise tax payable on unrealized gains in excess of the tax basis of investments. As of June

30, 2023, a liability of \$63,764,000 was reported in Accrued expense and other liabilities on the Consolidated Statements of Financial Position and Return on investments, net of amounts classified as operating revenue on the Consolidated Statements of Activities.

The University regularly evaluates its tax position and does not believe it has any uncertain tax positions that require disclosure or adjustment to the consolidated financial statements.

Tuition and Fees

Tuition and fees includes tuition, room and board, and other student fees which are recognized as revenue over time during the fiscal year in which the related academic services are rendered. Tuition and fees received in advance of services to be rendered are reported as Deferred income on the Consolidated Statements of Financial Position. The University maintains a policy of offering qualified undergraduate applicants admission to the University without regard to financial circumstance, as well as meeting in full the demonstrated financial need of those admitted. Tuition and fees have been reduced by certain grants and scholarships in the amount of \$401,396,000 and \$375,596,000 in 2023 and 2022, respectively.

Sponsored Programs

Sponsored programs includes revenue from exchange and conditional non-exchange agreements with governments, foundations and private sources, generally for research activities. Revenue from exchange agreements is generally recognized at a point in time when performance obligations are met, and revenue from conditional non-exchange agreements is generally recognized as the related costs are incurred. Non-exchange agreements are considered conditional if the terms of the agreement include both a right of return/release of assets received/promised and a barrier. These agreements become unconditional as barriers are met. At June 30, 2023, the University has unrecorded conditional agreements of \$2,474,380,000. In 2023 and 2022, sponsored programs revenue earned from governmental sources totaled \$979,174,000 and \$927,666,000, respectively. Indirect costs recovered on federally-sponsored programs are generally based on predetermined reimbursement rates which are stated as a percentage and distributed based on the modified total direct costs incurred. The University negotiates its federal indirect rates with its cognizant federal agency. Indirect costs recovered on all other grants and contracts are based on rates negotiated with the respective sponsors. Funds received for sponsored research activity are subject to audit. Based upon information currently available, management believes that any liability resulting from such audits will not materially affect the financial position or operations of the University.

Contributions

Contributions are revenues from unconditional non-exchange agreements with private sources and foundations. Contributions are recognized in the period received and reported as increases in the appropriate net asset category based on the presence or absence of donor-imposed restrictions. Non-exchange agreements are considered conditional if the terms of the agreement include both a right of return/release of assets received/promised and a barrier. These agreements become unconditional as barriers are met. Contributions and donor support without donor restrictions also includes net assets released as a result of corresponding expenditures which met donor-imposed restrictions. Contributions designated for the acquisition of long-lived assets and long-term investment are reported in Nonoperating activities.

The University reports unconditional pledges at fair value by discounting future cash flows using current market rates at the measurement date, ranging from 4.70% to 5.43%, matched to the payment period of the agreement, and accordingly categorizes these assets as Level 3. The primary unobservable input used in the fair value measurement of the University's Contributions receivable is the discount rate. Changes in the fair value of the University's

Contributions receivable due to fluctuations in the discount rate are reported as Contribution revenue on the Consolidated Statements of Activities.

Net Patient Service Revenue

Net patient service revenue is derived from contracts with patients of UPHS in which its performance obligation is to provide health care services. Net patient service revenue is recorded over time during the period these performance obligations are satisfied and at the determined transaction price, which represents the estimated net realizable amounts due from patients, third-party payers and others for health care services rendered. Estimated net realizable amounts represent amounts due, net of implicit and explicit price concessions. Implicit price concessions are based on management's assessment of expected net collections considering economic conditions, historical experience, trends in health care coverage and other collection indicators. After satisfaction of amounts due from insurance and reasonable efforts to collect from patients have been exhausted, UPHS follows established guidelines for placing certain past-due patient balances with collection agencies, subject to terms of certain restrictions on collection efforts as determined by UPHS. Patient receivables are written off after collection efforts have been followed in accordance with UPHS' policy. Certain revenue received from third-party payers is subject to audit and retroactive adjustment. Any changes in estimates under these contracts are recorded in operations currently.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

COVID-19

In response to the COVID-19 pandemic, the federal government passed the Coronavirus Aid, Relief, and Economic Stimulus Act of 2020 (CARES Act) and the American Rescue Plan Act of 2021 (ARP) which made funds available to UPHS and the Academic Component through various provisions of the legislation. The following table summarizes the related impact on the Consolidated Financial Statements as of June 30, 2023 and 2022, and for the years then ended (in thousands):

	Line Item	2023	2022
Consolidated Statements of Activities:			
UPHS CARES Act Provider relief funding	Other income	\$ 21,257	\$ 18,654
UPHS ARP PA DHS Act 2 funding	Other income	-	19,239
Higher Education Emergency Relief funding	Other income	-	22,494
Higher Education Emergency Relief funding	Sponsored programs	-	17,847
Consolidated Statements of Financial Position:			
UPHS Centers for Medicare and Medicaid Services			
Accelerated and Advanced Payments Program	Accrued expenses and other liabilities	\$ -	\$ 116,304
Deferral of Social Security taxes	Accrued expenses and other liabilities	-	84,991

Recent Authoritative Pronouncements

Periodically, the FASB issues updates to the Accounting Standards Codification (ASC) which impacts the University's financial reporting and related disclosures. The paragraph that follows summarizes a relevant update.

In March 2020, January 2021, April 2022 and December 2022 the FASB issued standard updates on Reference Rate Reform in response to the planned discontinuation of the London Inter-Bank Offered Rate (LIBOR), a key interbank reference rate. The standard provides accounting relief to contract modifications and optional expedients for

applying U.S. GAAP to contracts and other transactions that reference LIBOR or other reference rates that are expected to be discontinued because of rate reform. The University has determined that the standard will have no material impact on the University's results of operations or financial position.

2. UNIVERSITY OF PENNSYLVANIA HEALTH SYSTEM - SUMMARIZED FINANCIAL AND RELATED INFORMATION

The Trustees formed Penn Medicine, the governance structure which oversees the activities of UPHS and the University of Pennsylvania Perelman School of Medicine (PSOM) in order to operate, oversee and coordinate its academic, research and clinical missions.

UPHS is comprised of the following operating entities: Clinical Practices of the University of Pennsylvania; Clinical Care Associates; Hospital of the University of Pennsylvania; Penn Presbyterian Medical Center; Pennsylvania Hospital of the University of Pennsylvania Health System; Chester County Hospital and Health System; Lancaster General Health (LGH); Wissahickon Hospice of the University of Pennsylvania Health System; Princeton HealthCare System (PHCS), and Franklin Casualty Insurance Company, a wholly owned Risk Retention Group, and Quaker Insurance Company Ltd., a wholly owned offshore captive insurance company (collectively referred to as RRG/Captive).

In January 2023, UPHS, Tandigm Health, LLC and Independence Health Group, Inc. executed a Contribution, Exchange, and Warrant Purchases Agreement, whereby UPHS contributed \$50,000,000 in cash and in-kind assets in exchange for 26.7% interest in Class B Units in Tandigm Health, LLC and optional warrants. UPHS executed an 18-year participation agreement whereby UPHS primary care physicians will receive population health support from Tandigm and participate in value-based opportunities from Tandigm.

In January 2023, UPHS entered into an agreement to divest the Pennsylvania College of Health Sciences (PACHS). As a result of the agreement, an impairment loss of \$14,573,000 was reported in Other operating expense on the Consolidated Statements of Activities. In addition, PACHS assets and liabilities of \$43,369,000 and \$19,046,000 have been reclassified as "held for sale" within Other assets and Accrued expenses and other liabilities, respectively, on the Consolidated Statements of Financial Position.

Throughout the year, certain transactions (primarily billings for allocations of common costs, physicians' salaries and benefits, certain purchased services and support for PSOM) are conducted between UPHS and the University. Nonoperating, net, as shown below, includes transfers from UPHS to the University of \$150,374,000 and \$148,317,000 in 2023 and 2022, respectively, to further the research and educational activities of PSOM, and \$11,546,000 and \$11,027,000 in 2023 and 2022, respectively, for other activities. In addition, UPHS recognized operating expenses of \$20,717,000 and \$20,588,000 in 2023 and 2022, respectively, to support academic operating activities in the clinical departments of PSOM.

The effect of all these transactions is included in the following summarized financial information of UPHS as of and for the years ended June 30, 2023 and 2022 (in thousands):

		2023		2022
Net patient service revenue	\$	8,727,443	\$	8,104,389
Other revenue and support		1,247,254		1,100,018
Total expenses		(9,736,524)		(9,056,929)
Excess of revenue over expenses from operations		238,173		147,478
Nonoperating, net		102,549		361,326
Increase in net assets	\$	340,722	\$	508,804
Total current assets	\$	2,412,873	\$	2,240,024
Assets whose use is limited:				
Held by trustees		168,328		165,219
RRG/ Captive		201,327		304,256
Donor restricted and other		850,670		820,548
Designated		3,871,739		4,094,937
Property and equipment, net		5,915,043		5,949,333
Investments and other assets		909,654		821,977
Total assets	\$	14,329,634	\$	14,396,294
Total current liabilities	\$	1,357,052	\$	1,603,575
Long-term debt, net of current portion	۲	2,464,585	ڔ	2,541,850
Other liabilities		1,550,984		1,634,578
Total liabilities	\$	5,372,621	\$	5,780,003
Total liabilities	Ą	3,372,021	٠	3,780,003
Net assets				
Without donor restrictions	Ś	8,094,975	Ś	7,761,326
With donor restrictions	Ţ	862,038	7	854,965
Total net assets	\$	8,957,013	\$	8,616,291
Total liabilities and net assets	\$	14,329,634	Ś	14,396,294
Total national and net assets	7	- ·, 5 - 5 , 6 5 +	Υ.	,000,207

Net Patient Service Revenue

Net Patient Service Revenue (NPSR) for the years ended June 30, 2023 and 2022 is derived from the following payers:

	2023	2022
Medicare (including Managed Medicare)	34%	33%
Medicaid (including Managed Medicaid)	12%	13%
Managed care	33%	33%
Independence Blue Cross (IBC)	16%	16%
Commercial	4%	4%
Self pay	1%	1%
	100%	100%

Third-party payers

UPHS has agreements with the following third-party payers that provide for payments at amounts that differ from its established rates:

Medicare and Medicaid

Inpatient acute care services and outpatient services rendered to Medicare program beneficiaries are paid at prospectively determined rates. These rates vary according to a patient classification system that is based on clinical, diagnostic, and other factors. Inpatient psychiatric services and medical education costs related to Medicare beneficiaries are paid based on a cost reimbursement methodology. UPHS is

reimbursed for cost reimbursable items at a tentative rate with final settlement determined after submission of annual cost reports by each hospital and audits thereof by the Medicare fiscal intermediary.

Inpatient and outpatient services rendered to Medicaid program beneficiaries are paid at prospectively determined rates. Additional amounts are allocated to each hospital for training residents and serving a disproportionate indigent population.

Laws and regulations governing the Medicare and Medicaid programs are extremely complex and subject to interpretation. As a result, there is at least a reasonable possibility that recorded estimates will change by a material amount in the near term.

IBC and Commercial

During 2017, UPHS and IBC reached agreement on terms of a five-year agreement. Payments made for inpatient services provided to IBC traditional and managed care subscribers are effected on a per case rate basis for most services. Payment for outpatient services is principally based upon negotiated fee schedules. Hospital and physician rates also provide for annual inflationary increases. In addition, incentives are paid for high performance with regard to clinical outcomes and patient quality. On September 10, 2021, this agreement was extended from June 30, 2022 to June 30, 2025.

During 2015, UPHS and Aetna reached agreement on terms of a five-year agreement. A one-year bridge agreement was initiated effective July 1, 2020, and UPHS and Aetna subsequently extended this agreement through June 30, 2025. The new agreement consolidated all prior existing agreements across all UPHS regions and entities. Further, extensive new value-based payment models were layered on top of the existing fee-for-service framework.

UPHS also has reimbursement agreements with other commercial insurance carriers, health maintenance organizations and preferred provider organizations. The basis for reimbursement under these agreements includes prospectively determined rates per discharge, discounts from established charges and prospectively determined per diem rates.

Charity Care

UPHS provides services to patients who meet certain criteria under its charity care policy without charge or at amounts less than UPHS' established rates. Because UPHS does not pursue collections for these patients, such amounts have been excluded from NPSR. UPHS estimates the costs of providing charity care services based on data derived from a combination of UPHS' cost accounting system and the ratio of costs to charges. Of the Total expenses reported above by UPHS, an estimated \$37,665,000 and \$31,336,000 were incurred as a result of providing services to charity patients for the years ended June 30, 2023 and 2022, respectively.

Medical Professional Liability Claims

The University is insured for medical professional liability claims through the combination of the Medical Care Availability and Reduction of Error Fund (Mcare), various commercial insurance companies and risk retention programs.

Mcare levies health care provider surcharges, as a percentage of the Pennsylvania Joint Underwriters Association rates for basic coverage, to pay claims and pay administrative expenses of Mcare participants. These surcharges are recognized as expenses in the period incurred. Mcare operates on a pay-as-you-go basis and no provision has been

made for any future Mcare assessments in the accompanying financial statements, as the University's portion of the unfunded Mcare liability cannot be estimated.

Anticipated insurance recoveries and estimated liabilities for medical malpractice claims or similar contingent liabilities are presented separately on the Consolidated Statements of Financial Position in Accounts receivable, net and Accrued expenses and other liabilities, respectively. The University accrues for estimated risks arising from both asserted and unasserted medical professional liability claims. The estimate of the gross liability and corresponding receivable for unasserted claims arising from unreported incidents is based on analysis of historical claims data by an independent actuary, which is recorded utilizing a 2.25% discount rate as of June 30, 2023 and 2022. The gross liability recorded under this program is \$866,118,000 and \$797,620,000 at June 30, 2023 and 2022, respectively, with a corresponding receivable of \$200,145,000 and \$119,795,000 at June 30, 2023 and 2022, respectively.

3. ACCOUNTS RECEIVABLE

Accounts receivable are reported at their net realizable value. The major components of receivables, net of allowances for doubtful accounts of \$34,878,000 and \$31,546,000 at June 30, 2023 and 2022, respectively, are as follows (in thousands):

	2023	2022
Patient	\$ 1,028,058	\$ 1,012,942
Intellectual property	71,054	350,346
Sponsored research	208,431	175,259
Malpractice	200,145	119,795
Trade	62,740	66,726
Student	25,383	33,973
Other	220,653	165,986
TOTAL ACCOUNTS RECEIVABLE, NET	\$ 1,816,464	\$ 1,925,027

4. LOANS RECEIVABLE

Loans receivable, and related allowances for doubtful accounts, consist of the following at June 30, 2023 and 2022 (in thousands):

2023

	Re	ceivable	Allowance	Net
Student Loans:				
Federally-sponsored	\$	28,472		\$ 28,472
Other		10,748	\$ 2,434	8,314
Total Student loans	\$	39,220	\$ 2,434	\$ 36,786
Other		16,710	474	16,236
TOTAL	\$	55,930	\$ 2,908	\$ 53,022

2022

	Re	ceivable	All	owance	Net
Student Loans:					
Federally-sponsored	\$	35,478			\$ 35,478
Other		11,860	\$	2,897	8,963
Total Student loans	\$	47,338	\$	2,897	\$ 44,441
Other		15,787		419	15,368
TOTAL	\$	63,125	\$	3,316	\$ 59,809

Loans receivable primarily consists of student loans. Student loans include federally-sponsored student loans and donor-restricted student loans with mandated interest rates and repayment terms. The federally-sponsored student loans represent amounts due from current and former students under various Federal Government funded loan programs offered to graduate and undergraduate students. Loans disbursed under these programs are able to be assigned to the Federal Government upon default by the borrower; therefore, no related allowance is considered necessary. Funding received under these programs is ultimately refundable to the Federal Government in the event the University no longer participates and accordingly is reported as a liability in Federal student loan advances in the Consolidated Statements of Financial Position. Determination of the fair value of student loans receivable is not practicable.

Loans receivable are reported at their net realizable value. The University regularly assesses the adequacy of the allowances for expected credit losses of its loans by performing ongoing evaluations, including such factors as aging, differing economic risks associated with each loan category, financial condition of specific borrowers, economic environment in which the borrowers operate, level of delinquent loans, value of collateral and existence of guarantees or indemnifications.

5. CONTRIBUTIONS RECEIVABLE

A summary of contributions receivable at June 30, 2023 and 2022, is as follows (in thousands):

	2023			2022
Unconditional promises expected to be collected in:				
Less than one year	\$	166,125	\$	192,660
One year to five years		265,356		282,350
Over five years		101,064		126,151
		532,545		601,161
Less: Discount		(59,402)		(57,500)
Less: Allowances for doubtful amounts		(25,730)		(29,873)
TOTAL CONTRIBUTIONS RECEIVABLE, NET	\$	447,413	\$	513,788

At June 30, 2023 and 2022, the University has outstanding unrecorded conditional promises to give, including non-legally binding bequests, of \$542,287,000 and \$516,618,000, respectively. When conditional promises to give become unconditional or non-legally binding bequests cash payments are received, they are recorded and are generally restricted for operations, endowment and capital projects as stipulated by the donors.

6. INVESTMENTS, AT FAIR VALUE

A summary of investments, including the AIF, as of June 30, 2023 and 2022, categorized in accordance with the fair value hierarchy, is as follows (in thousands):

				Inv	estments at	
2023	Level 1	Level 2	Level 3		NAV	Total
Short-term:	\$ 980,619					\$ 980,619
Equity:						
US equities	560,700			\$	1,735,579	2,296,279
International equities	394,339				1,297,292	1,691,631
Emerging market equities					1,398,031	1,398,031
Total Equity	955,039				4,430,902	5,385,941
Debt:						
US treasuries	1,483,760	\$ 3,173				1,486,933
Corporate bonds	34,782	14,545				49,327
Total Debt	1,518,542	17,718				1,536,260
Split-interest agreements	83,249		\$ 366,820			450,069
Absolute return					4,275,853	4,275,853
Real assets	85	59			2,603,378	2,603,522
Private equity			23,080		7,829,756	7,852,836
Derivative instruments		2,784				2,784
Other			2,652			2,652
TOTAL INVESTMENTS, AT FAIR VALUE	\$ 3,537,534	\$ 20,561	\$ 392,552	\$	19,139,889	\$ 23,090,536

2022	Level 1	Level 2		Level 3	NAV		Total
Short-term:	\$ 1,325,507					\$	1,325,507
Equity:							
US equities	647,907				\$ 1,265,830		1,913,737
International equities	183,787				1,153,652		1,337,439
Emerging market equities					1,457,588		1,457,588
Total Equity	831,694				3,877,070		4,708,764
Debt:							
US treasuries	822,001	\$ 37,217					859,218
Corporate bonds	101,929	150,064					251,993
Total Debt	923,930	187,281					1,111,211
Split-interest agreements	84,635		\$	350,812			435,447
Absolute return					4,332,605		4,332,605
Real assets	148,845	59		3,547	2,469,399		2,621,850
Private equity				20,234	7,891,341		7,911,575
Derivative instruments		34,680					34,680
Other				2,644			2,644
TOTAL INVESTMENTS, AT FAIR VALUE	\$ 3,314,611	\$ 222,020	\$	377,237	\$ 18,570,415	\$	22,484,283

Included in Short-term investments is \$15,196,000 and \$24,380,000 of amounts held by trustees under indenture and escrow agreements at June 30, 2023 and 2022, respectively.

At June 30, 2023 and 2022, Short-term investments include \$23,091,000 and \$50,264,000, respectively, of outstanding receivables from trading activities. At June 30, 2023 and 2022, Short-term investments also include \$27,333,000 and \$23,803,000, respectively, of outstanding payables from trading activities.

Liabilities related to equity short positions of \$957,869,000 and \$492,721,000 at June 30, 2023 and 2022, respectively, are reported in Accrued expenses and other liabilities on the Consolidated Statements of Financial Position. These liabilities are valued using observable market data and are categorized as Level 1 based on quoted market prices in active markets.

Split-interest agreement investments included in Level 1 above are readily marketable assets invested by the University separately from the AIF where the University serves as trustee. These amounts include assets related to the Academic Component charitable gift annuities totaling \$42,477,000 and \$41,332,000 at June 30, 2023 and 2022, respectively. Included in these split-interest agreement investments are amounts held to meet legally mandated annuity reserves of \$24,306,000 and \$25,853,000 as of June 30, 2023 and 2022, respectively, as required by the laws of the following states where certain individual donors reside: California, Maryland, New Jersey and New York. Level 3 split-interest agreement investments are managed and invested outside of the University by external trustees.

A summary of Level 3 assets included in split-interest agreement investments, where the University is not trustee, measured at fair value, as of June 30, 2023 and 2022 is as follows (in thousands):

	2023	2022
Charitable remainder trusts	\$ 16,553	\$ 18,197
Charitable lead trusts	4,119	4,266
Perpetual trusts	346,148	328,349
Total	\$ 366,820	\$ 350,812

Changes to the reported amounts of split-interest agreement investments measured at fair value using unobservable (Level 3) inputs as of June 30, 2023 and 2022 are as follows (in thousands):

	Cl	haritable	(Charitable			
	Re	emainder		Lead		Perpetual	
2023		Trusts		Trusts		Trusts	Total
June 30, 2022	\$	18,197	\$	4,266	\$	328,349	\$ 350,812
Net realized gains (losses)						(2,380)	(2,380)
Net unrealized gains (losses)		(1,276)		(147)		22,206	20,783
Acquisitions						3,630	3,630
Liquidations		(368)				(5,657)	(6,025)
June 30, 2023	\$	16,553	\$	4,119	\$	346,148	\$ 366,820

	_	haritable emainder	(Charitable Lead		Perpetual	
2022		Trusts		Trusts		Trusts	Total
June 30, 2021	\$	18,874	\$	6,523	\$	370,297	\$ 395,694
Net realized gains (losses)						9,830	9,830
Net unrealized gains (losses)		730		(1,931)		(53,298)	(54,499)
Acquisitions						1,520	1,520
Liquidations		(1,407)		(326)			(1,733)
June 30, 2022	\$	18,197	\$	4,266	\$	328,349	\$ 350,812

The following tables set forth the fair value, related gains (losses) and notional amounts of the University's derivative instruments by contract type as of June 30, 2023 and 2022 (in thousands):

				Gross		Gross		
	N	lotional	D	erivative	D	erivative	C	erivative
2023	-	Amount		Assets	L	iabilities.	Gai	ins (Losses)
Foreign currency contracts	\$	261,012			\$	25,186	\$	(15,362)
Futures contracts								(9,497)
Options contracts		149,044	\$	2,784		648		453
Total	\$	410,056	\$	2,784	\$	25,834	\$	(24,406)

				Gross		Gross		
	1	Notional	ı	Derivative	- 1	Derivative	1	Derivative
2022		Amount		Assets		Liabilities	Ga	ins (Losses)
Foreign currency contracts	\$	145,227			\$	13,948	\$	(24,855)
Futures contracts		(529,474)	\$	30,032				75,133
Options contracts		153,941		4,648		446		(533)
Total	\$	(230,306)	\$	34,680	\$	14,394	\$	49,745

The notional amount is representative of the volume and activity of the respective derivative type during the years ended June 30, 2023 and 2022.

Gross derivative assets and liabilities are shown on the Consolidated Statements of Financial Position in Investments, at fair value and Accrued expenses and other liabilities, respectively. Derivative gains (losses) are shown in Return on investments, net on the Consolidated Statements of Activities, in the appropriate net asset classification.

Details on the fair value, remaining estimated life, outstanding commitments, current redemption terms and restrictions by strategy and type of investment (excluding Split-interest agreements, Derivative instruments, and Other investments) are provided below (in thousands):

	Fair Value	at Ju	une 30,	Out	standing	Redemption	Redemption
Strategy	2023		2022	Com	mitments	Terms	Restrictions
Short-term	\$ 980,619	\$	1,325,507			Daily	None
Equity:							
Managed accounts	729,498		650,227			Daily and semi-annually	None
						with varying notice	
						periods	
Mutual funds	225,542		181,468			Daily	None
Private funds (1)	4,430,901		3,877,069	\$	55,892	Weekly to annually with	Lock-up provisions ranging
						varying notice periods	from 0 to 5 years and side
							pocket investments (2)
Total Equity	5,385,941		4,708,764		55,892		
Debt:							
Managed accounts	1,536,260		1,111,211			Daily	None
Total Debt	1,536,260		1,111,211				
Absolute return	4,275,853		4,332,605		313,073	Range from monthly to	Lock-up provisions ranging
						annually and close-	from 0 to 5 years with
						ended funds not	earlier redemptions subject
						available for redemption	to redemption fee, close-
							ended funds not available
							for redemption, and side
							pocket investments (2)
						Close-ended funds not	Close-ended funds not
Private equity	7,852,836		7,911,575		3,328,468	available for redemption	available for redemption
Deal costs:						· ·	·
Real assets:			152 202			Daily	None
Managed accounts	- 2 602 522		152,392		4 200 200	Daily	None
Private funds (1)	2,603,522		2,469,458		1,298,306	Close-ended funds not	Close-ended funds not
						available for redemption	available for redemption
Total Real assets	2,603,522		2,621,850		1,298,306		
Total	\$ 22,635,031	\$	22,011,512	\$ 4	4,995,739		

⁽¹⁾ Private funds consist of close-ended and open-ended funds generally in the form of limited partnerships. Close-ended funds have varying remaining fund terms between 1 to 16 years.

Invested in the AIF with an aggregate fair value of \$211,464,000 and \$217,928,000 at June 30, 2023 and 2022, respectively, is a perpetual trust managed by an external trustee who has delegated investment decisions to the University. The University invests the assets of this trust in accordance with its endowment policy.

The University has made investments in various long-lived partnerships and, in other cases, has entered into contractual agreements that may limit its ability to initiate redemptions due to notice periods, lock-ups and gates. The University has also made commitments to various limited partnerships. The University expects these funds to be called over the next 5 years. The total amount of unfunded commitments is \$4,995,739,000 which represents 24.5% of the AIF value as of June 30, 2023.

⁽²⁾ Side pocket investments represent investments designated by a manager that are not available for liquidity in an otherwise liquid fund vehicle.

A summary of the University's total investment return, net of external and direct internal investment expenses, for the years ended June 30, 2023 and 2022 is presented below (in thousands):

	2023	2022
AIF investment income	\$ 94,743	\$ 146,425
AIF realized and unrealized gains (losses)	174,201	(99,940)
Total return on AIF	268,944	46,485
Other investment gains (losses)	95,012	(216,419)
Total return on investments, net	\$ 363,956	\$ (169,934)

7. ENDOWMENT

The composition and changes to the amount of the University's endowment at June 30, 2023 are as follows (in thousands):

			With	
	Without Donor		Donor	
	Restrictions	R	estrictions	Total
Donor-restricted endowment funds		\$	9,918,510	\$ 9,918,510
Quasi-endowment funds	\$ 11,044,431			11,044,431
June 30, 2023	\$ 11,044,431	\$	9,918,510	\$ 20,962,941

				With	
	Witl	hout Donor		Donor	
	Re	estrictions	R	Restrictions	Total
Net assets, June 30, 2022	\$	10,672,892	\$	10,051,459	\$ 20,724,351
Investment return		120,222		130,346	250,568
New gifts		18,442		201,429	219,871
Allocation of endowment assets for expenditure		(975,606)			(975,606)
Other investment allocation		(8,730)			(8,730)
Transfers to create board designated funds		721,087			721,087
Donor-imposed income reinvestments				31,660	31,660
Other transfers		32,377		(32,637)	(260)
Released from restriction		463,747		(463,747)	-
Net assets, June 30, 2023	\$	11,044,431	\$	9,918,510	\$ 20,962,941

The composition and changes to the amount of the University's endowment at June 30, 2022 are as follows (in thousands):

	W	ithout Donor		With Donor	
	Restrictions		Restrictions		Total
Donor-restricted endowment funds			\$	10,051,459	\$ 10,051,459
Quasi-endowment funds	\$	10,672,892			10,672,892
June 30, 2022	\$	10,672,892	\$	10,051,459	\$ 20,724,351

	With					
	Witho	ut Donor		Donor		
	Rest	trictions	R	estrictions		Total
Net assets, June 30, 2021	\$ 10	0,337,266	\$	10,186,280	\$	20,523,546
Investment return		(26,114)		(57,799)		(83,913)
New gifts		9,498		319,291		328,789
Allocation of endowment assets for expenditure		(876,619)				(876,619)
Other investment allocation		(10,097)				(10,097)
Transfers to create board designated funds		810,005				810,005
Donor-imposed income reinvestments				26,629		26,629
Other transfers		41,567		(35,556)		6,011
Released from restriction		387,386		(387,386)		
Net assets, June 30, 2022	\$ 10	,672,892	\$	10,051,459	\$	20,724,351

At June 30, 2023 and 2022, the aggregate amount of funds reported in Net assets with donor restrictions for which the fair value was below historic value was \$12,456,000 and \$5,636,000, respectively.

8. PROPERTY, PLANT AND EQUIPMENT, NET

The components of PPE at June 30, 2023 and 2022 are as follows (in thousands):

Fctim	hate	Useful
CSUIII	ateu	oseiui

	Life in years	2023	2022
Land and land improvements	N/A to 20	\$ 450,931	\$ 447,993
Buildings and fixed equipment	5 to 50	13,526,265	13,255,569
Moveable equipment and other	4 to 20	2,550,102	2,543,589
Construction-in-progress		690,888	420,071
		17,218,186	16,667,222
Less: Accumulated depreciation		(7,755,128)	(7,276,098)
TOTAL PROPERTY, PLANT AND EQUIPMENT, NET		\$ 9,463,058	\$ 9,391,124

The University recorded \$648,551,000 and \$622,720,000 of depreciation expense for the years ended June 30, 2023 and 2022, respectively.

The University capitalized \$14,528,000 and \$26,203,000 of interest costs for the years ended June 30, 2023 and 2022, respectively.

9. SPLIT-INTEREST AGREEMENTS

Changes in the value of assets, liabilities and net assets pursuant to split-interest agreements as of June 30, 2023 and 2022 are as follows (in thousands):

2023	Assets	Liabilities	Net Assets
June 30, 2022	\$ 435,447 \$	(46,408) \$	389,039
New contributions	5,462	(2,513)	2,949
Investment income	1,645	(1,169)	476
Realized and unrealized gain, net	22,611		22,611
Payments and settlements	(15,096)	6,666	(8,430)
Actuarial adjustment		(1)	(1)
Net change	14,622	2,983	17,605
June 30, 2023	\$ 450,069 \$	(43,425) \$	406,644

2022	Assets	Liabilities	Net Assets
June 30, 2021	\$ 498,822 \$	(53,017) \$	445,805
New contributions	2,705	(1,903)	802
Investment income	1,957	(1,611)	346
Realized and unrealized gain, net	(57,840)		(57,840)
Payments and settlements	(10,197)	8,374	(1,823)
Actuarial adjustment		1,749	1,749
Net change	(63,375)	6,609	(56,766)
June 30, 2022	\$ 435,447 \$	(46,408) \$	389,039

10. CONTINGENCIES, GUARANTEES, AND COMMITMENTS

The University offers various loan programs for students and families to pay tuition, fees and other costs. Certain loans issued by private lending institutions are guaranteed by the University totaling \$23,557,000 and \$17,101,000 at June 30, 2023 and 2022, respectively. Upon default by the borrower, the University is required to pay all or a portion of the outstanding loan balance. The University recognized a liability totaling \$3,209,000 and \$2,648,000 at June 30, 2023 and 2022, respectively, to cover both the fair value of the guarantee and any expected defaults in the portfolio of guaranteed loans.

Various lawsuits, claims and other contingent liabilities arise in the ordinary course of the University's education and health care activities, including specific matters described below. While it is not possible to determine the ultimate outcome of any such actions, the University believes that the outcome will not have a material adverse effect on the University's financial position.

UPHS is involved in a legal matter whereby a jury awarded \$182,738,000 to a plaintiff in a medical malpractice case against UPHS. UPHS is appealing the verdict.

The University is currently involved in various projects that have resulted in capital and property acquisition commitments from the University. As of June 30, 2023, approximately \$695,503,000 has been committed by the University.

11. PENSION AND OTHER POSTRETIREMENT BENEFITS COSTS

Retirement benefits are principally provided to employees through contributory defined contribution plans. The Academic Component's policy with respect to its contribution is to provide up to 10% of eligible employees' salaries, while the UPHS contribution can be up to 6.5%. The University's contributions to these plans amounted to \$315,728,000 and \$266,373,000 as of June 30, 2023 and 2022, respectively.

The University also has non-contributory defined benefit pension plans. Benefits under the plans generally are based on the employee's years of service and compensation during the years preceding retirement. Contributions to the plans are made in amounts necessary to at least satisfy the minimum required contributions as specified in the Internal Revenue Service Code and related regulations. The Academic Component's plan was frozen to new full-time entrants effective July 1, 2000 and part-time entrants effective July 1, 2018. UPHS' primary plan was frozen to new entrants effective July 1, 2010; the benefit accruals for all participants of the LGH and PHCS plans were frozen effective June 30, 2013 and December 31, 2011, respectively. On December 31, 2022, the LGH and PHCS plans were merged into the UPHS plan with no changes to existing benefits and coverages.

The University also has faculty retirement incentive plans which are included in Other retirement programs shown below. The net liability under these plans is \$20,683,000 and \$55,413,000 as of June 30, 2023 and 2022, respectively, with the decrease primarily attributable to the University's offering of a special one-time faculty retirement plan during the year ended June 30, 2021.

Additionally, the University provides certain healthcare and life insurance benefits (OPEB) for retired employees. Only a limited number of employees may become eligible for such benefits if they reach retirement age while working for the University. These and similar benefits for active and certain retired employees are provided through insurance contracts.

The University uses a measurement date of June 30 for its defined benefit pension and OPEB plans.

Change in Plan Assets/Obligation and Funded Status

The funded status of the plans is measured as the difference between the plan assets at fair value and the projected benefit obligation (PBO) for Pension Benefits or accumulated postretirement benefit obligation (APBO) for Other Postretirement Benefits. The resulting net liability is recorded in Accrued retirement benefits on the Statements of Financial Position. The following shows changes in the benefit obligation, plan assets and funded status for the years ended June 30, 2023 and 2022 (in thousands):

			Other	
	Pension	Po	ostretirement	
2023	Benefits		Benefits	Total
Change in Benefit Obligation:				
Benefit obligation, beginning of year (PBO/APBO)	\$ 3,380,668	\$	842,820	\$ 4,223,488
Service cost	51,435		26,954	78,389
Interest cost	160,960		41,039	201,999
Plan participants' contributions	158		10,986	11,144
Net actuarial (gain)/loss	(330,086)		(51,873)	(381,959)
Benefits paid	(127,611)		(35,078)	(162,689)
Benefit obligation, end of year (PBO/APBO)	\$ 3,135,524	\$	834,848	\$ 3,970,372
Change in Plan Assets:				
Fair value of plan assets, beginning of year	\$ 3,238,768	\$	712,371	\$ 3,951,139
University contributions	17,089		31,852	48,941
Plan participants' contributions	158		10,986	11,144
Actual return on plan assets	(11,011)		35,799	24,788
Benefits paid	(127,611)		(35,078)	(162,689)
Fair value of plan assets, end of year	\$ 3,117,393	\$	755,930	\$ 3,873,323
Funded status, end of year	\$ 18,131	\$	78,918	\$ 97,049
Other retirement programs				145,328
				242,377
Plan with fair value of plan assets in excess of PBO/APBO*				48,292
ACCRUED RETIREMENT BENEFITS		•		\$ 290,669

^{*} Included in Other assets on the Consolidated Statements of Financial Position

			Other	
	Pension	Po	stretirement	
2022	Benefits		Benefits	Total
Change in Benefit Obligation:				
Benefit obligation, beginning of year (PBO/APBO)	\$ 4,177,955	\$	1,096,142	\$ 5,274,097
Service cost	76,716		43,127	119,843
Interest cost	124,362		35,617	159,979
Plan participants' contributions	156		11,186	11,342
Net actuarial (gain)/loss	(880,613)		(307,658)	(1,188,271)
Benefits paid	(117,908)		(35,594)	(153,502)
Benefit obligation, end of year (PBO/APBO)	\$ 3,380,668	\$	842,820	\$ 4,223,488
Change in Plan Assets:				
Fair value of plan assets, beginning of year	\$ 3,486,533	\$	717,335	\$ 4,203,868
University contributions	35,045		32,056	67,101
Plan participants' contributions	156		11,186	11,342
Actual return on plan assets	(165,058)		(12,612)	(177,670)
Benefits paid	(117,908)		(35,594)	(153,502)
Fair value of plan assets, end of year	\$ 3,238,768	\$	712,371	\$ 3,951,139
Funded status, end of year	\$ 141,900	\$	130,449	\$ 272,349
Other retirement programs				170,889
				443,238
Plan with fair value of plan assets in excess of PBO*	 			23,367
ACCRUED RETIREMENT BENEFITS				\$ 466,605

^{*} Included in Other assets on the Consolidated Statements of Financial Position

The Accumulated Benefit Obligation for the Pension Benefits was \$2,952,298,000 and \$3,137,299,000 at June 30, 2023 and 2022, respectively.

For the year ended June 30, 2023, the primary drivers of the net actuarial gains in the Benefit Obligations were increases in the weighted average discount rates from 4.74% to 5.48% for Pension and from 4.96% to 5.59% for Other Postretirement. For the year ended June 30, 2022, the primary drivers of the net actuarial gains in the Benefit Obligations were increases in the weighted average discount rates from 3.04% to 4.74% for Pension and from 3.29% to 4.96% for Other Postretirement.

Net Periodic Benefit Cost

The components of net periodic benefit cost for pension benefits and other postretirement benefits are detailed below (in thousands). In the Consolidated Statements of Activities, service cost is reported as Compensation and benefits while the remaining components of net periodic benefit cost are reported as Pension, OPEB and other, net.

	Other								
2023		Pension Benefits	Po	ostretirement Benefits		Total			
Service cost	\$	51,435	\$	26,954	\$	78,389			
Interest cost		160,960		41,039		201,999			
Expected return on plan assets		(183,109)		(53,386)		(236,495)			
Amortization of:									
Net prior service cost/(credit)				(325)		(325)			
Net losses		619		(6,219)		(5,600)			
Net periodic benefit cost	\$	29,905	\$	8,063	\$	37,968			

	Other								
2022		Pension Benefits	Po	ostretirement Benefits		Total			
Service cost		76,716	\$	43,127	\$	119,843			
Interest cost		124,362		35,617		159,979			
Expected return on plan assets		(208,682)		(53,884)		(262,566)			
Amortization of:									
Net prior service cost/(credit)				(339)		(339)			
Net losses		22,643		311		22,954			
Net periodic benefit cost	\$	15,039	\$	24,832	\$	39,871			

Net Assets Without Donor Restrictions

The University recorded the following year-end valuation adjustments to its Pension and Other Postretirement Benefit Plans in Pension, OPEB and other, net in the Consolidated Statements of Activities (in thousands):

			Other		
2023	Pension Benefits	P	ostretirement Benefits		Total
Net Assets Without Donor Restrictions:					
Net actuarial (gain)/loss	\$ (14,769)	\$	(200,261)	\$	(215,030)
Net prior service cost/(credit)			(1,322)		(1,322)
Total	\$ (14,769)	\$	(201,583)	\$	(216,352)
Adjustment to net assets without donor restrictions (gain)/loss	\$ (136,584)	\$	(27,656)	\$	(164,240)
			Other		
	Pension	P	ostretirement		
2022	Benefits		Benefits		Total
Net Assets Without Donor Restrictions:					
Net actuarial (gain)/loss	\$ 121,815	\$	(172,280)	\$	(50,465)
Net prior service cost/(credit)			(1,647)		(1,647)
Total	\$ 121,815	\$	(173,927)	\$	(52,112)
Adjustment to net assets without donor restrictions (gain)/loss	\$ (529,518)	\$	(241,137)	Ś	(770,655)

Actuarial Assumptions

The expected long-term rate of return on plan assets is management's best estimate of the average investment return expected to be received on the assets invested in the plan over the benefit period. The expected long-term rate of return on plan assets has been established by considering historical and future expected returns of the asset classes invested in by the pension trust, and the allocation strategy currently in place among those classes.

	Pension		Ot	ner	
	Ber	efits	Postretirem	ent Benefits	
Weighted-Average Assumptions Used to					
Determine Benefit Obligations at Year End	2023	2022	2023	2022	
Discount rate	5.48%	4.74%	5.59%	4.96%	
Salary increase	3.19%	3.17%	N/A	N/A	
Weighted-Average Assumptions Used to					
Determine Net Periodic Benefit Cost					
Discount rate	5.07%	3.12%	4.98%	3.32%	
Expected long-term return on plan assets	6.85%	6.77%	7.50%	7.50%	
Salary increase	3.19%	3.21%	N/A	N/A	
Assumed Health Care Cost Trend Rates					
Initial trend rate	N/A	N/A	5.95%	6.20%	
Ultimate trend rate	N/A	N/A	4.69%	4.70%	
Fiscal year end that ultimate trend rate is reached	N/A	N/A	2046	2046	

Expected Contributions

The University expects to contribute \$19,015,000 and \$31,737,000 for pension benefits and other postretirement benefits, respectively, during the fiscal year ending June 30, 2024.

Expected Benefits Payments (in thousands):

Expected benefit payments for the year ending:	Pens	ion Benefits	ther Postretirement efits before Medicare Part D Subsidy	N	Nedicare Part D Subsidy
June 30, 2024	\$	159,953	\$ 33,855	\$	75
June 30, 2025		164,289	35,796		78
June 30, 2026		172,434	37,830		81
June 30, 2027		180,362	40,028		83
June 30, 2028		188,303	42,096		84
June 30, 2029 to June 30, 2033		1,042,993	241,978		422

Plan Assets and Allocations

The principal investment objectives for the pension and other postretirement benefits plans are to ensure the availability of funds to pay pension benefits as they become due under a broad range of future economic scenarios, to maximize long-term investment returns with an acceptable level of risk based on the pension obligations, and to invest the pension trust in a diversified manner.

The University's Office of Investments is responsible for the day-to-day management of the majority of the investments of the pension and other postretirement benefits. The investments are made in accordance with policies set out by the Investment Board which has been appointed by the Trustees. The pension and other postretirement benefit investments are similar in nature to those investments discussed in Notes 1 and 6 – Investments, at Fair Value. However, the actual allocations to specific investments within each asset class may vary due to certain restrictions imposed by investment managers and ERISA regulations.

A summary of plan assets, measured at fair value, as of June 30, 2023 and 2022, is as follows (in thousands):

Pension Benefits:

						Investments				
2023		Level 1		Level 2		Level 3	at NAV			Total
Assets:										
Short-term	\$	118,081							\$	118,081
Equity:										
US equities		44,344					\$	136,200		180,544
International equities		11,611						157,063		168,674
Emerging market equities		871						31,794		32,665
Debt:										
US treasuries		1,321,335								1,321,335
Corporate bonds		16,597	\$	23						16,620
Absolute return								596,572		596,572
Real assets		16,784						171,690		188,474
Private equity								507,400		507,400
Total assets	\$	1,529,623	\$	23	\$	-	\$	1,600,719	\$	3,130,365
Liabilities:										
Derivative instruments			\$	12,972					\$	12,972
Total liabilities	\$	-	\$	12,972	\$	-	\$	-	\$	12,972
Fair value of plan assets, end of year	\$	1,529,623	\$	(12,949)	\$	-	\$	1,600,719	\$	3,117,393

			Investments					
2022	Level 1	Level 2	Level 3	at NAV		Total		
Assets:								
Short-term	\$ 267,580					\$	267,580	
Equity:								
US equities	43,294			\$	133,219		176,513	
International equities	28,495				196,037		224,532	
Emerging market equities	901				166,740		167,641	
Debt:								
US treasuries	893,167						893,167	
Corporate bonds	106,109	\$ 21					106,130	
Absolute return					662,583		662,583	
Real assets	47,628		\$ 1,419		170,741		219,788	
Private equity					520,834		520,834	
Fair value of plan assets, end of year	\$ 1,387,174	\$ 21	\$ 1,419	\$	1,850,154	\$	3,238,768	

Other Postretirement Benefits:

						Investments					
2023	Level 1		Leve	Level 2		evel 3	at NAV		Total		
Assets:											
Short-term	\$	34,995							\$	34,995	
Equity:											
US equities		6,383					\$	57,639		64,022	
International equities								104,523		104,523	
Emerging market equities								47,795		47,795	
Debt:											
US treasuries		17,182								17,182	
Corporate bonds											
Absolute return								230,496		230,496	
Real assets		27,378						75,690		103,068	
Private equity								153,905		153,905	
Total assets	\$	85,938	\$	-	\$	-	\$	670,048	\$	755,986	
Liabilities:											
Derivative instruments			\$	56					\$	56	
Total liabilities	\$	-	\$	56	\$	-	\$	-	\$	56	
Fair value of plan assets, end of year	\$	85,938	\$	(56)	\$	_	\$	670,048	\$	755,930	

						Investments				
2022		Level 1		el 2	Level 3			at NAV	Total	
Assets:										
Short-term	\$	41,712							\$	41,712
Equity:										
US equities		6,235					\$	52,670		58,905
International equities								82,149		82,149
Emerging market equities								49,845		49,845
Debt:										
US treasuries		17,436								17,436
Corporate bonds										-
Absolute return								213,457		213,457
Real assets		26,751			\$	455		71,086		98,292
Private equity								150,704		150,704
Total assets	\$	92,134	\$	-	\$	455	\$	619,911	\$	712,500
Liabilities:										
Derivative instruments			\$	129					ċ	129
							<u>,</u>		\$	
Total liabilities	\$	-	\$	129	\$	-	\$	-	\$	129
Fair value of plan assets, end of year	\$	92,134	\$	(129)	\$	455	\$	619,911	\$	712,371

As of June 30, 2023, the University has unfunded commitments to limited partnerships totaling \$442,619,000, which are expected to be called over the next 5 years.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Plan asset allocations by category are as follows:

	Pei	nsion	Other			
2023	Ве	nefits	Postretirement Benefits			
Allocation of Plan Assets	Target	Actual	Target	Actual		
Short-term	0.0%	3.4%	0.0%	4.6%		
Equity:						
US equities	5.1%	5.8%	9.0%	8.5%		
International equities	5.8%	5.4%	12.0%	13.8%		
Emerging markets equities	5.7%	1.1%	9.0%	6.3%		
Debt:						
US treasuries	34.0%	42.4%	5.0%	2.3%		
Corporate bonds	0.0%	0.5%	0.0%	0.0%		
Absolute return	20.5%	19.1%	29.0%	30.5%		
Real assets	9.3%	6.0%	16.0%	13.6%		
Private equity	19.6%	16.3%	20.0%	20.4%		
Total	100.0%	100.0%	100.0%	100.0%		

12. DEBT OBLIGATIONS

TOTAL DEBT OBLIGATIONS

Debt obligations at June 30, 2023 and 2022 are as follows (in thousands):

		Effective		
	Final	Interest Rate		
	Maturity	at June 30, 2023	2023	2022
Academic Component:				
Fixed rate debt obligations:				
The Trustees of the University of Pennsylvania				
Series A of 2020 Taxable Bonds	10/2050	2.40%	\$ 300,000	\$ 300,000
Series A of 2019 revenue bonds	02/2119	3.61%	300,000	300,000
Series 2012 Taxable Bonds	09/2112	4.67%	300,000	300,000
Pennsylvania Higher Educational Facilities Authority (PHEFA)				
Series B of 2019 revenue bonds	08/2045	2.40% - 2.97%	213,585	213,585
Series A of 2018 revenue bonds	02/2048	2.28% - 4.70%	172,180	176,410
Series A of 2017 revenue bonds	08/2046	2.26% - 3.72%	178,395	178,395
Series A of 2016 revenue bonds	08/2041	1.54% - 2.93%	117,465	118,360
Series A of 2015 revenue bonds	10/2045	1.99% - 2.63%	33,665	38,775
Series B of 2015 revenue bonds	10/2038	1.99% - 3.38%	132,055	145,110
Series C of 2015 revenue bonds	10/2035	3.680%	8,020	8,020
Other loans	05/2031	3.00% - 5.53%	19,225	19,659
Variable rate debt obligation:				
Washington County Authority Series of 2004	07/2034	3.88%	40,700	43,700
Total Academic Component outstanding bonds payable			1,815,290	1,842,014
Unamortized issuance costs, premiums and discounts, net			46,882	52,562
Total Academic Component debt obligations			\$ 1,862,172	\$ 1,894,576
UPHS:				
Fixed rate debt obligations:				
Lancaster County Hospital Authority (LCHA)				
Series A of 2016 revenue bonds	08/2042	1.90% - 3.52%	\$ 142,915	\$ 147,640
Series B of 2016 revenue bonds	08/2046	1.86% - 3.58%	107,890	119,485
PHEFA				
Series A of 2021 revenue bonds	08/2044	1.61% - 2.11%	79,810	79,810
Series B of 2021 revenue bonds	08/2042	0.82% - 2.70%	109,735	109,735
Series A of 2019 revenue bonds	08/2049	1.67% - 3.22%	534,870	534,870
Series A of 2017 revenue bonds	08/2047	2.60% - 3.68%	400,000	400,000
Series C of 2016 revenue bonds	08/2041	1.43% - 3.08%	124,255	127,800
Series A of 2015 revenue bonds	08/2045	2.22% - 4.00%	194,245	209,870
Series A of 2012 revenue bonds	08/2042		-	8,305
New Jersey Health Care Facilities Financing Authority (NJHCFFA)				
Princeton Healthcare System Series A of 2016	07/2039	2.08% - 3.88%	157,075	162,875
University of Pennsylvania Health System Taxable Note	08/2047	4.01%	200,000	200,000
Lancaster General Hospital 2015 Taxable Note	08/2032	2.25%	60,453	62,518
Mortgages, notes and other	Various	Various	95,500	96,591
Variable rate debt obligations:				
PHEFA Series A of 2008 revenue bonds	01/2038	3.47%	69,995	69,995
NJHCFFA Princeton Healthcare System Series B of 2016	07/2045	4.66%	65,000	65,000
NJHCFFA Princeton Healthcare System Series C of 2016	07/2045	4.61%	20,000	20,000
Total UPHS outstanding bonds payable	,	·	2,361,743	2,414,494
Unamortized issuance costs, premiums and discounts, net			169,604	183,158
Total UPHS debt obligations			2,531,347	2,597,652

4,492,228

4,393,519 \$

Contractual maturities of debt obligations are as follows (in thousands):

	-	Academic			
Fiscal Year	С	omponent		UPHS	Total
2024	\$	32,151	\$	66,768	\$ 98,919
2025		29,128		64,272	93,400
2026		44,537		67,279	111,816
2027		30,923		69,513	100,436
2028		32,290		65,523	97,813
Thereafter		1,646,261		2,028,388	3,674,649
Total Principal		1,815,290		2,361,743	4,177,033
Unamortized issuance costs, premiums & discounts		46,882		169,604	216,486
TOTAL DEBT OBLIGATIONS	\$	1,862,172	\$ 2	2,531,347	\$ 4,393,519

To secure certain self-insured liabilities, the University has letters of credit with various financial institutions totaling \$14,268,000 and \$12,557,000 at June 30, 2023 and 2022, respectively, of which \$4,971,000 and \$4,709,000 were issued under a line of credit. The letters of credit have evergreen provisions for automatic renewal. There have been no draws under the letters of credit.

Academic Component

The University has variable rate debt in the amount of \$40,700,000 which is subject to optional tender by the holders upon seven days' notice. These bonds are reflected in the table above based on original scheduled maturities. In the event that the University receives notice of any optional tender on its variable rate demand bonds, the purchase price will be repaid from the remarketing of the bonds. However, in the event that the entire remarketing effort were to fail, the University would have the general obligation to purchase the bonds.

On June 14, 2021, the University entered into a new five-year agreement with a financial institution to provide a line of credit in the amount of \$100,000,000 for general purposes of the University. The University pays a fee annually on the unused amount of the line of credit. There were no outstanding balances as of June 30, 2023 and 2022.

UPHS

The PHEFA Revenue Bonds, Lancaster County Hospital Authority (LCHA) Revenue Bonds and New Jersey Health Care Facilities Financing Authority (NJHCFFA) Revenue Bonds are secured by master notes issued under the UPHS Master Trust Indenture (MTI). The MTI and related agreements contain certain restrictive covenants which limit the issuance of additional indebtedness, and among other things, require UPHS to meet an annual debt service coverage requirement of "income available for debt service" (excess of revenue over expenses plus depreciation, amortization, interest expense and extraordinary items) at an amount equal to 110% of the annual debt service requirements. If the coverage requirement for a particular year is not met, within six months of the close of that fiscal year, UPHS must retain the services of a consultant to make recommendations to improve the coverage requirement. UPHS must also implement the recommendations of the consultant to the extent that they can be feasibly implemented. UPHS will not be considered to be in default of the provisions of the MTI so long as UPHS has sufficient cash flow to pay total operating expenses and debt service for the fiscal year. In both 2023 and 2022, UPHS met its debt service coverage requirement under the MTI. Additionally, UPHS has pledged its gross revenues to secure its obligation under the MTI.

On August 1, 2022, the University executed an agreement to facilitate the extension of the Lancaster General Hospital ("LGH") 2015 Taxable Note with an aggregate principal amount not to exceed \$62,525,000. The LGH 2015

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Taxable Note was extended for a ten-year period with a maturity date of August 1, 2032, with a fixed interest rate of 2.25%.

On May 18, 2022, Pennsylvania Higher Educational Facilities Authority (PHEFA) issued Series B of 2021 Refunding Revenue Bonds (PHEFA 2021B bonds), which was a forward delivery, with an aggregate principal amount of \$109,735,000. The proceeds were used to fund an escrow which was used to refund \$122,275,000 from the PHEFA Series A of 2012 revenue bonds. The refunded bonds were legally defeased and are no longer included among UPHS' reported liabilities. Interest on the PHEFA 2021B bonds is fixed with coupons ranging between 0.82% and 2.70%. As a result of the legal defeasance of debt associated with the issuance of PHEFA 2021B bonds, the University reported a gain on early extinguishment of debt in Pension, OPEB and other, net on the Consolidated Statement of Activities in the amount of \$3,398,000 for the year ended June 30, 2022.

UPHS has certain variable rate debt in the amount of \$69,995,000 which is subject to optional tender by the holders upon seven days' notice. These bonds are reflected in the debt obligations maturity table above based on original scheduled maturities. In the event that UPHS receives notice of any optional tender on its variable rate demand bonds, the purchase price will be repaid from the remarketing of the bonds. However, in the event that the entire remarketing effort were to fail, UPHS has in place a renewable direct pay letter of credit issued by Bank of America with an original expiration date of April 15, 2023, which has been extended through April 15, 2028. In the event that the letter of credit cannot be drawn upon, UPHS would have the general obligation to purchase the bonds.

UPHS maintains a \$100,000,000 line of credit with a maturity date of April 12, 2025 to supplement liquidity and issue letters of credit to cover balances due on construction projects and reinsurance agreements. There were no outstanding balances as of June 30, 2023 and 2022.

Interest Rate Swap Agreements

The University enters into interest rate swap agreements to synthetically modify the interest rate terms of its long-term debt portfolio. These agreements are not entered into for trading or speculative purposes. Fair value of these agreements is determined by obtaining quotes from Goldman Sachs Mitsui Marine Derivative Products, L.P. (GSMMDP) and Merrill Lynch, respectively, which are based on the income approach, using observable market data to discount future net payment streams. Accordingly, the University considers this to be a Level 2 measurement. The quotes provided also represent the amount the University would accept or be required to pay to transfer the agreement to GSMMDP and Merrill Lynch, respectively, or exit price as defined by the Fair Value Measurements standard. The University also takes into account the risk of nonperformance.

The following table summarizes the terms of the University's remaining interest rate swap agreements (in thousands):

		Academic omponent		UPHS		
Notional Amounts Trade Date Maturity Date Rates:	\$	99,150 11/6/2007 7/1/2034	\$ 3,140 7/15/2009 8/15/2023	\$ 3,140 1/7/2010 8/15/2023	\$	19,525 7/28/2006 7/1/2041
Receive	1-1	67% of Month LIBOR 3.573%	3.184% SIFMA Index	2.902% SIFMA Index	1-	70% of Month LIBOR 3.980%

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

The following table summarizes the fair value of the interest rate swap agreements, not designated as hedging instruments, as of June 30, 2023 and 2022, and the related gains on the interest rate swap agreements, both realized and unrealized, for the years ended June 30, 2023 and 2022 (in thousands):

	Line Item	2023	2022
Consolidated Statements of	Financial Position:		
Asset interest rate swaps:			
UPHS	Other assets	\$ -	\$ 110
Total asset interest rate swap	S	\$ -	\$ 110
Liability interest rate swaps	:		
Academic Component	Accrued expenses and other liabilities	\$ 5,172	\$ 10,248
UPHS	Accrued expenses and other liabilities	2,246	3,506
Total liability interest rate			
swaps		\$ 7,418	\$ 13,754
Consolidated Statements of	Activities:		
Academic Component	Return on investments, net	\$ 3,956	\$ 7,934
UPHS	Return on investments, net	1,150	2,264
Total		\$ 5,106	\$ 10,198

13. NET ASSETS

TOTAL NET ASSETS

The major components of net assets at June 30, 2023 and 2022 are as follows (in thousands):

Without donor

With donor

\$ 11,066,975 \$

28,875,187

17,808,212

2023		restrictions	r	restrictions	Total		
General operating	\$	7,722,223	\$	819,419	\$	8,541,642	
Sponsored programs		42,320				42,320	
Capital				146,938		146,938	
Student loans		5,748				5,748	
Planned giving agreements				54,281		54,281	
Quasi-endowment		11,044,431				11,044,431	
Endowment, subject to spending rule				4,774,969		4,774,969	
Endowment, held in perpetuity				5,143,541		5,143,541	
TOTAL NET ASSETS	\$	18,814,722	\$	10,939,148	\$	29,753,870	
	W	/ithout donor	,	With donor			
2022		ithout donor restrictions		With donor restrictions		Total	
2022 General operating					\$	Total 7,820,139	
-		restrictions		restrictions	\$		
General operating		restrictions 7,075,269		restrictions	\$	7,820,139	
General operating Sponsored programs		restrictions 7,075,269		744,870	\$	7,820,139 53,805	
General operating Sponsored programs Capital		7,075,269 53,805		744,870	\$	7,820,139 53,805 216,955	
General operating Sponsored programs Capital Student loans		7,075,269 53,805		744,870 216,955	\$	7,820,139 53,805 216,955 6,246	
General operating Sponsored programs Capital Student loans Planned giving agreements		7,075,269 53,805 6,246		744,870 216,955	\$	7,820,139 53,805 216,955 6,246 53,691	

14. OTHER INCOME

The components of Other income for the years ended June 30, 2023 and 2022, are as follows (in thousands):

	2023	2022
Commercialization of intellectual property*	\$ 637,467	\$ 1,258,637
UPHS ambulatory pharmacy	868,480	717,287
Government relief funding	21,257	60,387
Other	655,281	595,796
TOTAL OTHER INCOME	\$ 2,182,485	\$ 2,632,107

^{*}Net of distributions to external parties

15. LEASES

The University leases research labs and office space under operating leases expiring through December 2043. On the Consolidated Statements of Financial Position, lessees are required to record Right-of-Use assets, representing the right to use the underlying assets for the lease term, and Lease liabilities, representing the obligation to make lease payments arising from the lease based on the present value of lease payments over the lease term. The University has made the following elections: (1) to adopt a package of practical expedients relating to reassessment, (2) to exclude leases with a term of less than one year, and (3) to use an incremental borrowing rate for discounting leases, as applicable. At June 30, 2023 and 2022, Right-of-Use assets recorded in Other assets were \$556,028,000 and \$489,323,000, respectively, and Lease liabilities recorded in Accrued expenses and other liabilities were \$571,002,000 and \$503,880,000, respectively. At June 30, 2023, the weighted average remaining lease term was 10.9 years and the weighted average discount rate was 2.8%. At June 30, 2022, the weighted average remaining lease term was 9.2 years and the weighted average discount rate was 2.3%. Rental expense, for the years ended June 30, 2023 and 2022, totaled \$153,907,000 and \$148,595,000 (including amortizations related to Right-of-Use assets and Lease liabilities of \$78,544,000 and \$75,758,000), respectively. Rental expense is included in Other operating expenses on the Consolidated Statements of Activities.

Future maturities of total lease liabilities at June 30, 2023 are as follows (in thousands):

Total Future lease payments	\$ 571,002
Less imputed interest	(140,538)
Total lease payments	\$ 711,540
Thereafter	348,815
2028	57,033
2027	63,734
2026	74,407
2025	83,620
2024	\$ 83,931
Year ending June 30,	

16. FUNCTIONAL CLASSIFICATION OF EXPENDITURES

Expenses for the years ended June 30, 2023 and 2022 are categorized on a functional basis as follows (in thousands):

		al &		Enterprises & Institutional independent			
academic suppor	t physician p	ractices	Research	support	operations		Total
\$ 1,244,49	5 \$ 5,3	328,699 \$	621,319	\$ 307,415	\$ 240,786	\$	7,742,714
94,40) 4	114,521	52,167	21,809	67,354		650,251
17,15	3	81,549	26,932	203	13,899		139,741
650,91	3,9	910,686	454,109	97,784	210,949		5,324,442
2,006,96	9,5	735,455	1,154,527	427,211	532,988		13,857,148
(6,49	9)	(27,818)	(3,242)	(1,605)	(1,257)		(40,421)
\$ 2,000,468	\$ 9,7	707,637 \$	1,151,285	\$ 425,606	\$ 531,731	\$	13,816,727
	94,400 17,158 650,914 2,006,967 (6,499	94,400 4 17,158 650,914 3, 2,006,967 9, (6,499)	94,400 414,521 17,158 81,549 650,914 3,910,686 2,006,967 9,735,455 (6,499) (27,818)	94,400 414,521 52,167 17,158 81,549 26,932 650,914 3,910,686 454,109 2,006,967 9,735,455 1,154,527 (6,499) (27,818) (3,242)	94,400 414,521 52,167 21,809 17,158 81,549 26,932 203 650,914 3,910,686 454,109 97,784 2,006,967 9,735,455 1,154,527 427,211 (6,499) (27,818) (3,242) (1,605)	94,400 414,521 52,167 21,809 67,354 17,158 81,549 26,932 203 13,899 650,914 3,910,686 454,109 97,784 210,949 2,006,967 9,735,455 1,154,527 427,211 532,988 (6,499) (27,818) (3,242) (1,605) (1,257)	94,400 414,521 52,167 21,809 67,354 17,158 81,549 26,932 203 13,899 650,914 3,910,686 454,109 97,784 210,949 2,006,967 9,735,455 1,154,527 427,211 532,988 (6,499) (27,818) (3,242) (1,605) (1,257)

	Ir	struction,					Enterprises &	
	stude	ent services &	Н	lospital &		Institutional	independent	
2022	acad	emic support	physi	ician practices	Research	support	operations	Total
Compensation and benefits	\$	1,108,535	\$	5,053,976	\$ 551,364	\$ 279,727	\$ 215,684	\$ 7,209,286
Depreciation and amortization		96,489		387,958	50,769	21,325	66,916	623,457
Interest on indebtedness		17,387		69,468	26,925	185	14,032	127,997
Other operating expense		594,544		3,528,636	422,024	76,664	186,027	4,807,895
Total operating expense		1,816,955		9,040,038	1,051,082	377,901	482,659	12,768,635
Non-service net periodic benefit cost		(12,301)		(56,060)	(6,118)	(3,103)	(2,391)	(79,973)
Total	\$	1,804,654	\$	8,983,978	\$ 1,044,964	\$ 374,798	\$ 480,268	\$ 12,688,662

Operation and maintenance of PPE and depreciation are allocated to functional classifications based on square footage. Interest expense is generally allocated to functional classifications of the activity that directly benefited from the proceeds of the debt. Non-service net periodic benefit cost is allocated to functional classifications based on compensation and benefits.

17. LIQUIDITY AND AVAILABILITY

As of June 30, 2023 and 2022, respectively, financial assets and liquidity resources available within one year for general expenditure, such as operating expenses, scheduled principal payments on debt and capital construction costs not financed with debt, were as follows (in thousands):

	2023	2022
Financial assets:		
Cash & cash equivalents	\$ 3,217,099	\$ 3,163,942
Receivables, net	1,620,356	1,809,271
Pledge payments available for operations	77,478	79,634
Investments	7,637,515	7,657,637
Total financial assets available within one year	12,552,448	12,710,484
Liquidity resources:		
Bank lines of credit	195,029	195,291
Total financial assets and liquidity resources available within one year	\$ 12,747,477	\$ 12,905,775

The University's cash flows have seasonal variations during the year attributable to tuition billing, patient service reimbursement and a concentration of contributions received at calendar and fiscal year-end. To manage liquidity, the University maintains lines of credit with several banks that are drawn upon as needed during the year to manage cash flows. Management has the discretion to utilize the full amount of quasi-endowment funds for general expenditures.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

18. SUBSEQUENT EVENTS

The University has evaluated subsequent events for the period from June 30, 2023 through September 28, 2023, the date the consolidated financial statements were issued.



			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
Federal Awardina Agency/Program Title	ALN Number	Pass-Through Entity	Pass-Through Entity	Program Total	Cluster	Cluster	Provided to	Federal Expenditures
DEPARTMENT OF AGRICULTURE	Number	Enuty	Enuty	Total	Nume	Total	Sub-Recibierits	Experiultures
AGRICULTURAL RESEARCH_BASIC AND APPLIED RESEARCH	10.001	CRDF GLOBAL	59-0210-6-004	\$ 193,755	Research and Development	\$ 920,364	194 \$ -	\$ 8
AGRICULTURAL RESEARCH_BASIC AND APPLIED RESEARCH	10.001	CRDF GLOBAL	59-0210-8-184	\$ 193,755	Research and Development	\$ 920,364	194 \$ -	\$ 16,2
AGRICULTURAL RESEARCH_BASIC AND APPLIED RESEARCH	10.001			\$ 193,755	Research and Development	\$ 920,364	194 \$ -	\$ 176,63
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310	PENNSYLVANIA STATE UNIVERSITY	S002633-USDA	\$ 1,164,971	Research and Development	\$ 920,364		\$ 69,5
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310	UNIVERSITY OF CONNECTICUT	157077250	\$ 1,164,971	Research and Development	\$ 920,364		\$ 21,8
AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310			\$ 1,164,971	Research and Development	\$ 920,364		
ANIMAL HEALTH AND DISEASE RESEARCH	10.207			\$ 81,335	Research and Development	\$ 920,364		\$ 81,3
COVID-19 - AGRICULTURE AND FOOD RESEARCH INITIATIVE (AFRI)	10.310	TEXAS A&M UNIVERSITY		\$ 1,164,971	Research and Development	\$ 920,364		\$ 70,9
MAINTENANCE OF MEMBERSHIP LABORATORY REQUIREMENTS	10.RD	PENNSYLVANIA DEPARTMENT OF AGRICULTURE		\$ 63,446	Research and Development	\$ 920,364		\$ 63,4
PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE	10.025	COMMONWEALTH OF PENNSYLVANIA	44229531	\$ 278,713	Research and Development	\$ 920,364		\$ 107,5
PLANT AND ANIMAL DISEASE, PEST CONTROL, AND ANIMAL CARE STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM	10.025 10.561			\$ 278,713	Research and Development SNAP CLUSTER	\$ 920,364		\$ 171,1
STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM STATE ADMINISTRATIVE MATCHING GRANTS FOR THE SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM	10.561	PENNSYLVANIA STATE UNIVERSITY PENNSYLVANIA STATE UNIVERSITY	S002470-COP-UNI S003655-COP-UNI	\$ 937,033 \$ 937,033	SNAP CLUSTER SNAP CLUSTER			\$ 222,8 \$ 714.2
DEPARTMENT OF AGRICULTURE Total	10.561	PENNSYLVANIA STATE UNIVERSITY	S003655-COP-UNI	\$ 937,033	SNAP CLUSTER	\$ 937	\$ 295,479	
DEPARTMENT OF ACRICOLITINE TOTAL	_						3 233,473	\$ 2,719,2
ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	11.619	UNIVERSITY OF DELAWARE	PC3.I-121	\$ 79,564	Research and Development	\$ 920,364	101 ċ	\$ 62,3
COVID-19 - ARRANGEMENTS FOR INTERDISCIPLINARY RESEARCH INFRASTRUCTURE	11.619	UNIVERSITY OF DELAWARE UNIVERSITY OF DELAWARE		\$ 79,564	Research and Development	\$ 920,364		\$ 62,3
MEASUREMENT AND ENGINEERING RESEARCH AND STANDARDS	11.609	IOWA STATE UNIVERSITY	022284H	\$ 59,372	Research and Development	\$ 920,364		\$ 17,2
SEA GRANT SUPPORT	11.417	PENNSYLVANIA STATE UNIVERSITY		\$ 36,757	Research and Development	\$ 920,364		\$ 36.7
DEPARTMENT OF COMMERCE Total	11.417	PENNSTEVANIA STATE UNIVERSITY	3003813-NOAA	30,737	Research and Development	3 320,304		\$ 175,
DEPARTMENT OF DEFENSE	_						<u>, </u>	, <u>y</u> 175,
ACOUSTOELECTRIC AMPLIFIERS FOR EFFICIENT RADIO FREQUENCY SIGNAL PROCES	12.RD	UES, INC.	S-215-020-004	\$ 12,395,804	Research and Development	\$ 920.364	194 ¢ -	\$ 5,5
ALCOUST DELECTRIC AMPLIFIERS FOR EFFICIENT RADIO FREQUENCY SIGNAL PROCES AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.KD 12.800	DUKE UNIVERSITY	313-1122	\$ 2,921,021	Research and Development	\$ 920,364		\$ 293,0
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800	EMORY UNIVERSITY	A007760	\$ 2,921,021	Research and Development	\$ 920,364		\$ 293,
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800	PURDUE UNIVERSITY		\$ 2,921,021	Research and Development	\$ 920,364		\$ 139,
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800	TULANE UNIVERSITY		\$ 2,921,021	Research and Development	\$ 920,364		\$ 159,
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800	UNIVERSITY OF ROCHESTER	SUB00000305	\$ 2,921,021	Research and Development	\$ 920,364		\$ 32,
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12,800	LINIVERSITY OF TEXAS AT AUSTIN	UTA16-001254	\$ 2,921,021	Research and Development	\$ 920,364	194 \$ -	\$ (17,
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800	WRIGHT STATE UNIVERSITY		\$ 2,921,021	Research and Development	\$ 920,364	194 Ś -	\$ 226,
AIR FORCE DEFENSE RESEARCH SCIENCES PROGRAM	12.800			\$ 2,921,021	Research and Development	\$ 920,364	194 Ś -	\$ 1,837,
ALUMINUM SCANDIUM NITRIDE MEMS PDK	12.RD	AKOUSTIS	SUB TO HR0011-21-9-0004	\$ 12,395,804	Research and Development	\$ 920,364		\$ 117,4
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300	RENSSELAER POLYTECHNIC INSTITUTE	A20-0047-S002	\$ 6,944,447	Research and Development	\$ 920,364	194 Ś -	\$ 359,3
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300	UNIVERSITY OF ILLINOIS	099963-17889	\$ 6,944,447	Research and Development	\$ 920,364	194 \$ -	\$ 13,6
BASIC AND APPLIED SCIENTIFIC RESEARCH	12.300			\$ 6,944,447	Research and Development	\$ 920,364	194 \$ 2,252,413	\$ 6,571,4
BASIC SCIENTIFIC RESEARCH	12.431	CLEMSON UNIVERSITY	2413-201-2012557	\$ 6,283,752	Research and Development	\$ 920,364		\$ 50,0
BASIC SCIENTIFIC RESEARCH	12.431	DREXEL UNIVERSITY	940002	\$ 6,283,752	Research and Development	\$ 920,364	194 \$ -	\$ 639,3
BASIC SCIENTIFIC RESEARCH	12.431	HARVARD UNIVERSITY	124397-5121863	\$ 6,283,752	Research and Development	\$ 920,364		\$ 27,0
BASIC SCIENTIFIC RESEARCH	12.431	JOHNS HOPKINS UNIVERSITY	2004717370	\$ 6,283,752	Research and Development	\$ 920,364	194 \$ -	\$ 181,2
BASIC SCIENTIFIC RESEARCH	12.431	NORTHEASTERN UNIV	504139-78050	\$ 6,283,752	Research and Development	\$ 920,364		\$ (6,6
BASIC SCIENTIFIC RESEARCH	12.431	NORTHEASTERN UNIV	TBD-78051	\$ 6,283,752	Research and Development	\$ 920,364		\$ 85,6
BASIC SCIENTIFIC RESEARCH	12.431	UNIVERSITY OF CALIFORNIA, SANTA BARBARA		\$ 6,283,752	Research and Development	\$ 920,364		\$ 77,5
BASIC SCIENTIFIC RESEARCH	12.431	UNIVERSITY OF ROCHESTER		\$ 6,283,752	Research and Development	\$ 920,364		\$ 141,0
BASIC SCIENTIFIC RESEARCH	12.431	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00005405	\$ 6,283,752	Research and Development	\$ 920,364		\$ 45,6
BASIC SCIENTIFIC RESEARCH	12.431			\$ 6,283,752	Research and Development	\$ 920,364		\$ 5,042,8
BASIC SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	12.351			\$ 893,942	Research and Development	\$ 920,364		\$ 789,6
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630	AUBURN UNIVERSITY		\$ 5,709,261	Research and Development	\$ 920,364		\$ 21,7
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630	UNIVERSITY OF MASSACHUSETTS	S51330000044313	\$ 5,709,261	Research and Development	\$ 920,364		\$ 66,9
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630	UNIVERSITY OF VIRGINIA	GG12423.169006	\$ 5,709,261	Research and Development	\$ 920,364		\$ 6
BASIC, APPLIED, AND ADVANCED RESEARCH IN SCIENCE AND ENGINEERING	12.630			\$ 5,709,261	Research and Development	\$ 920,364		
BEHAVIORAL CHARACTERIZATION OF ODOR DETECTION DOGS FOR SELECTION OF PO	12.RD	BATTELLE MEMORIAL INSTITUTE	769331	\$ 12,395,804	Research and Development	\$ 920,364		\$ 275,6
BETTER EXTRACTION FROM TEXT TOWARDS ENHANCED RETRIEVAL (BETTER)	12.RD	BBN SYSTEMS AND TECHNOLOGIES	SUB TO 2019-19051600006	\$ 12,395,804	Research and Development	\$ 920,364	194 \$ -	\$ 430,6
BIO-FABRICATED NERVE-MUSCLE COMPLEXES TO AUGMENT REGENERATION AND FACI	12.RD	PHILADELPHIA RESEARCH AND EDUCATION FOUNDATION	JPA	\$ 12,395,804	Research and Development	\$ 920,364	194 \$ -	\$ 18,6
CAIRO-MS: CONFLICTING ACCOUNT INFORMATION RESOURCES IN OMNIVOROUS MEDI CIRCULATING CFDNA FRAGMENTS FOR THE DETECTION AND DIAGNOSIS OF TRAUMAT	12.RD 12.RD	CHILI DOCALC HOCOLTAL CE CHILI COLLEGA	CDT OOC	\$ 12,395,804 \$ 12.395,804	Research and Development	\$ 920,364 \$ 920,364	. + (,)	
COLLECTIVE LIFELONG LEARNING BY DISTRIBUTED AGENTS	12.RD 12.RD	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000206	\$ 12,395,804 \$ 12,395,804	Research and Development Research and Development	\$ 920,364		\$ 125,9 \$ 601,6
CONSTRAINED TOMOGRAPHY WITH LINDERSAMPLED PROJECTIONS	12.KD 12.RD	EULER SCIENTIFIC	FUL-SPP-2022-002	\$ 12,395,804 \$ 12.395.804	Research and Development Research and Development	\$ 920,364		\$ 601,6
CONTOUR BASED IMAGE SEGMENTATION STTR PHASE II	12.RD	VY CORPORATION	SUB TO FA8750-20-C-0524	\$ 12,395,804	Research and Development	\$ 920,364		\$ 69,1
CORPORA OF ANNOTATED EVENTS REPRESENTED UNDER SCHEMAS (CAERUS)	12.RD	VT CORPURATION	JUD 1U FM0/3U-ZU-L-U5Z4	\$ 12,395,804	Research and Development Research and Development	\$ 920,364		
COVID-19 - BASIC SCIENTIFIC RESEARCH - COMBATING WEAPONS OF MASS DESTRUCTION	12.351			\$ 893,942	Research and Development	\$ 920,364		\$ 104,
COVID-19 - RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910	WISTAR INSTITUTE	36000-01-374-UPENN	\$ 5.308,722	Research and Development	\$ 920,364		\$ 1,311,
CROSS-DOMAIN TRANSFER LEARNING	12.RD	LOCKHEED MARTIN CORPORATION	4105246480	\$ 12,395,804	Research and Development	\$ 920,364		\$ 1,511,
DESIGN AND PRODUCTION OF 3 NEW MRNA PRODUCTION PLASMID	12.RD			\$ 12,395,804	Research and Development	\$ 920,364		\$ 50,0
DOD PHASE II STTR 12.A, TOPIC NO. A12A-T009	12.RD	CHARLES RIVER ANALYTICS, INC.	SC1906402	\$ 12,395,804	Research and Development	\$ 920,364		\$ 2,
ELECTROMECHANICAL COMPONENTS FOR EFFICIENT, SMALL SCALE POWER CONVERSI	12.RD			\$ 12,395,804	Research and Development	\$ 920,364		\$ 33,
ENERGY-EFFICIENT VISION-BASED NAVIGATION THROUGH EVENT-BASED SENSING A	12.RD	PURDUE UNIVERSITY	13001103-096	\$ 12,395,804	Research and Development	\$ 920,364		\$ 203,
ENVIRONMENTALLY SUSTAINABLE ANALYSIS AND DESIGN SUPPORT AND MONITORING	12.RD			\$ 12,395,804	Research and Development	\$ 920,364		\$ 9
FERROELECTRIC ALUMINUM SCANDIUM NITRIDE MEMORY DEVICES AND INTEGRATION	12.RD	UES, INC.	S-210-21M-001	\$ 12,395,804	Research and Development	\$ 920,364	194 \$ -	\$ 270,
H6 TACTICAL-GRADE CLOCK	12.RD	INTEL FEDERAL LLC	CW2085888	\$ 12,395,804	Research and Development	\$ 920,364		\$ 2
HIGH-BAND OPERATION VIA PERIODIC STRUCTURES (HOPS)	12.RD	AKOUSTIS		\$ 12,395,804	Research and Development	\$ 920,364		\$ 216,
HR001121S0007-08: THIRD-PARTY VERIFICATION OF COTS SOFTWARE COMPLIANC	12.RD	LALAITH ASTOR TECHNICAL CONSULTING HOUSE, LLC		\$ 12,395,804	Research and Development	\$ 920,364		\$ 208,
HUMAN INTERPRETABLE ATTRIBUTION OF TEXT USING UNDERLYING STRUCTURE (HI	12.RD	RAYTHEON COMPANY		\$ 12,395,804	Research and Development	\$ 920,364		\$ 19,
HYPOTHESIS-GUIDED MODEL REVISION OVER MULTIPLE ALIGNED REPRESENTATIONS	12.RD	PALO ALTO RESEARCH CENTER	P315541	\$ 12,395,804	Research and Development	\$ 920,364	194 \$ -	\$ 169
IMPROVING NEUROTRAUMA BY DEPOLARIZATION INHIBITION WITH COMBINATION TH	12.RD	UNIVERSITY OF CINCINNATI	013935-00002	\$ 12,395,804	Research and Development	\$ 920,364		\$ 84,
INTEGRATED QUANTUM INSPIRED PHOTONIC SOLVER (I-QIPS)	12.RD			\$ 12,395,804	Research and Development	\$ 920,364		\$ 350,
INTEGRATED STATIC AND DYNAMIC APPROACHES TO HIGH-ASSURANCE FOR LEARNIN	12.RD			\$ 12,395,804	Research and Development	\$ 920,364		\$ 732,
LINKING INVESTIGATIONS IN TRAUMA AND EMERGENCY SERVICES (LITES)	12.RD	UNIVERSITY OF PITTSBURGH	0058514-2	\$ 12,395,804	Research and Development	\$ 920,364		\$ 190,
LIQUID-FUEL THERMIONIC BATTLEFIELD GENERATORS	12.RD	SPARK THERMIONICS	SUB TO W911QX22C0011	\$ 12,395,804	Research and Development	\$ 920,364		\$ 155,8
MILITARY CONSTRUCTION, NATIONAL GUARD	12,400			\$ 302,503	Research and Development	\$ 920,364	194 \$ 47.519	\$ 302,5

	Federal ALN	Name of Funder Pass-Through	Identifying Number Assigned By Funder Pass-Through	Federal Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	CASE WESTERN RESERVE UNIVERSITY	RES515708	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 3,87
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000254	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 9,74
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000404	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 53,91
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002453-XX	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 45,75
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	CITIZENS UNITED FOR RESEARCH IN EPILEPSY	CURE	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ 25,377	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	DANA-FARBER CANCER INSTITUTE	3086701	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 2,2
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	DENVER RESEARCH INSTITUTE	MSRC-FY19-02	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ 134,522	\$ 277,93
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	DUKE UNIVERSITY	SUB TO W81XWH-14-1-0473	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ (9,44
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	FOX CHASE CANCER CENTER	22782-01	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 66,93
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	GEORGE WASHINGTON UNIVERSITY	20-M20	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 4,9
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	GEORGETOWN UNIVERSITY	413814_GR413762-UPenn	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 1,1
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	HENRY M. JACKSON FOUNDATION	5526	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	MICHIGAN STATE UNIVERSITY	RC110291UP	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 16,78
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	OREGON HEALTH & SCIENCE UNIVERSITY	1008339 UPA	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	SHEBA MEDICAL CENTER	W81XWH2211081-B	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	THOMAS JEFFERSON UNIVERSITY	080-27000-X18001	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	\$ 25,2
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES	FP 55722	\$ 12,221,299	Research and Development	\$ 920,364,194		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	10225sc	\$ 12,221,299	Research and Development	\$ 920,364,194	\$ -	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12,420	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	11330sc	\$ 12.221.299	Research and Development	\$ 920,364,194		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12,420	UNIVERSITY OF CINCINNATI	010376-003	\$ 12.221.299	Research and Development	\$ 920,364,194		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	UNIVERSITY OF CITCHINGS	19019	\$ 12,221,299	Research and Development	\$ 920,364,194	7	, , , , ,
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	UNIVERSITY OF ILLINOIS UNIVERSITY OF MARYLAND	F302347-17	\$ 12,221,299	Research and Development	\$ 920,364,194	7	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	UNIVERSITY OF WASHINGTON	UWSC9138	\$ 12,221,299	Research and Development	\$ 920,364,194	7	
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC86814	\$ 12,221,299	Research and Development	\$ 920,364,194		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	WISTAR INSTITUTE	35611-02-370	\$ 12,221,299	Research and Development	\$ 920,364,194		
MILITARY MEDICAL RESEARCH AND DEVELOPMENT MILITARY MEDICAL RESEARCH AND DEVELOPMENT	12.420	WISHN INSTITUTE	33011-02-370	\$ 12,221,299	Research and Development	\$ 920,364,194		
MULTIFERROIC VECTOR MAGNETOMETER (MFVM)	12.420 12.RD	LEIDOS, INC.	P010242159	\$ 12,221,299	Research and Development	\$ 920,364,194		, , , , , , ,
MULTIFERROIC VECTOR MAGNETOMETER (MFVM) NEUROBEHAVIORAL EFFECTS OF BATTLEMIND VS. MINDFULNESS BASED MILITARY T	12.RD 12.RD	LEIDUS, INC.	PU1U242159	\$ 12,395,804 \$ 12,395,804	Research and Development Research and Development	\$ 920,364,194 \$ 920.364.194	*	+,
NON-INVASIVE MONITORING OF TRAUMATIC BRAIN INJURY PROGRESSION USING TH		UNIVERSITY OF ALABAMA AT BIRMINGHAM		7,000,000		,,	7	
	12.RD	UNIVERSITY OF ALABAMA AT BIRMINGHAM	N/A	\$ 12,395,804	Research and Development	\$ 920,364,194		
PAUSIT: PRIVACY PROTECTION AND AUTHORSHIP ATTRIBUTION USING STYLE-BASE	12.RD			\$ 12,395,804	Research and Development	\$ 920,364,194		
PENN AEROSPACE CLUB: AEROSPACE PROPULSION OUTREACH PROGRAM	12.RD	ARCTOS TECHNOLOGY SOLUTIONS, LLC	212014.05.00.2016.00.22-C3	\$ 12,395,804	Research and Development	\$ 920,364,194		
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910	NEW YORK UNIVERSITY	F1400-03	\$ 5,308,722	Research and Development	\$ 920,364,194		
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910	YALE UNIVERSITY	CON-80003844 (GR117762)	\$ 5,308,722	Research and Development	\$ 920,364,194		+
RESEARCH AND TECHNOLOGY DEVELOPMENT	12.910			\$ 5,308,722	Research and Development	\$ 920,364,194	\$ 1,028,247	\$ 3,755,38
RESTORING MEMORY WITH TASK-INDEPENDENT SEMI-CHRONIC CLOSED-LOOP DIRECT	12.RD	MEDICAL TECHNOLOGY ENTERPRISE CONSORTIUM (MTEC)	2020-639	\$ 12,395,804	Research and Development	\$ 920,364,194	\$ -	\$ 610,54
ROBUST AUTONOMY IN UAVS ON A CONVERGENT DIGITAL-ANALOG FERROELECTRONIC	12.RD	GEORGIA TECH RESEARCH INSTITUTE	AWD-003001-S4	\$ 12,395,804	Research and Development	\$ 920,364,194	ś -	\$ (48,99
SCUTLE (SOCIOCULTURAL UNDERSTANDING THROUGH LINGUISTIC EXPRESSION)	12.RD			\$ 12,395,804	Research and Development	\$ 920,364,194		
SECURE HANDLING OF ISOLATED EXECUTABLES WITHOUT LEAKING (CLOSURE).	12.RD	PERATON LABS	PO-0018618	\$ 12,395,804	Research and Development	\$ 920,364,194	\$ 47.527	
SELF-RECONFIGURABLE MODULAR GROUND ROBOTS	12.RD	TRITON SYSTEMS, INC	TSI-2749-21-20205599	\$ 12,395,804	Research and Development	\$ 920,364,194		
SOLUBLE RECEPTOR PROTEINS FOR SCREENING ASSAYS	12.RD	SANDIA NATIONAL LABORATORY	2474204	\$ 12,395,804	Research and Development	\$ 920,364,194		
SONICVIPER	12.RD	SANDIA NATIONAL LABORATORY	2474204	\$ 12,395,804	Research and Development	\$ 920,364,194		
STARKPEPPER	12.RD			\$ 12,395,804	Research and Development	\$ 920,364,194	\$ -	
STTR: VECTORIZATION SOLUTIONS TO MAKE DECISIONS ABOUT OBJECTS AND AREA	12.RD	VY CORPORATION	SUB TO FX21S-TCSO1-0059	\$ 12,395,804	Research and Development	\$ 920,364,194		
SYSTEMIC GENERATIVE ENGINEERING	12.RD	SIEMENS CORPORATE RESEARCH, INC.	198-01	\$ 12,395,804	Research and Development	\$ 920,364,194		+ .,
TASK-AND-USER AWARE REPRESENTATION LEARNING FOR FINE GRAINED CROSSLING	12.RD			\$ 12,395,804		\$ 920,364,194		
THERMIONIC POWER GENERATION FOR INDIVIDUAL SOLDIER	12.RD	BROWN UNIVERSITY	00001475	\$ 12,395,804	Research and Development Research and Development	\$ 920,364,194		
	12.RD 12.RD	SPARK THERMIONICS	SUB TO W91CRB-21-C-0032					
TOP GATED 2D/ALSCN/SIC STRUCTURES FOR SURFACE ACOUSTIC WAVE AMPLIFIERS				\$ 12,395,804	Research and Development	\$ 920,364,194		
TRANSFORMING RESEARCH AND CLINICAL KNOWLEDGE IN TRAUMATIC BRAIN INJURY	12.RD	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	11184sc	\$ 12,395,804	Research and Development	\$ 920,364,194		
UNCOVER: CROSS-LINGUAL QUESTION ANSWERING TO IDENTIFYING INFORMATION D	12.RD			\$ 12,395,804	Research and Development	\$ 920,364,194		, .
UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS	12.750	HENRY M. JACKSON FOUNDATION	307226-1.00-64373	\$ 123,603	Research and Development	\$ 920,364,194		
UNIFORMED SERVICES UNIVERSITY MEDICAL RESEARCH PROJECTS	12.750	HENRY M. JACKSON FOUNDATION	5757	\$ 123,603	Research and Development	\$ 920,364,194		7 113,00
DEPARTMENT OF DEFENSE Total							\$ 10,552,899	\$ 53,104,35
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT								
COVID-19 - RESEARCH AND EVALUATIONS, DEMONSTRATIONS, AND DATA ANALYSIS AND UTILIZATION	14.536			\$ 21,237	Research and Development	\$ 920,364,194	\$ -	\$ 21,23
FY 2022 AND FY 2023 COMMUNITY COMPASS TECHNICAL ASSISTANCE AND CAPACIT	14.RD	ABT ASSOCIATES INC.	54376	\$ 24,724	Research and Development	\$ 920,364,194	\$ -	\$ 24,72
OFFICE OF LEAD HAZARD CONTROL AND HEALTHY HOMES	14.913			\$ 79,957	N/A	\$ -	\$ -	\$ 79,95
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Total							\$ -	
DEPARTMENT OF THE INTERIOR								
COOPERATIVE RESEARCH AND TRAINING PROGRAMS D RESOURCES OF THE NATIONAL PARK SYSTEM	15.945			\$ 582,311	Research and Development	\$ 920,364,194	ś -	\$ 582.31
ROUTE 66 CORRIDOR PRESERVATION	15.958			\$ 3,970	Research and Development	\$ 920,364,194		
YOUTH ENGAGEMENT, EDUCATION, AND EMPLOYMENT PROGRAMS	15.676			\$ 117,663	N/A	\$ -	\$ -	
DEPARTMENT OF THE INTERIOR Total						_	\$ -	
DEPARTMENT OF JUSTICE CAPITAL CASE LITIGATION INITIATIVE	16.746			\$ 203,701	Research and Development	\$ 920.364.194	•	A 200 T
CRIME VICITIM ASSISTANCE/DISCRETIONARY GRANTS	16.746			\$ 203,701	N/A	,,	7	
CRIME VICTIM ASSISTANCE/DISCRETIONARY GRANTS CRIME VICTIM ASSISTANCE	16.582	December 1 Commission 2 2 2 2 1	w/-	\$ 130,588 \$ 189,047		\$ -	*	
		Pennsylvania Commission on Crime & Delinquency	N/A	7,	N/A	\$ -		
DOJ, ANTITRUST DIVISION (ATR) - INTERGOVERNMENTAL PERSONNEL ACT (IPA) EDWARD BYRNE MEMORIAL JUSTICE ASSISTANCE GRANT PROGRAM	16.U14 16.738	INTERNATIONAL ACCOCIATION OF CONTRACT	CUID TO 2047	\$ 232,693 \$ 685,078	N/A JAG PROGRAM Cluster	\$ 685.078	\$ -	
		INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE	SUB TO 2017-VI-BX-K001					\$ 685,07
EVALUATION OF THE POLICE ASSISTED DIVERSION PILOT IN PHILADELPHIA NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS	16.RD 16.560	CITY OF PHILADELPHIA	PAD PROGRAM	\$ 199,706 \$ 388,972	Research and Development	\$ 920,364,194 \$ 920,364,194		,
		DREXEL UNIVERSITY	950045		Research and Development			
NATIONAL INSTITUTE OF JUSTICE RESEARCH, EVALUATION, AND DEVELOPMENT PROJECT GRANTS	16.560			\$ 388,972	Research and Development	\$ 920,364,194		
PROJECT SAFE NEIGHBORHOODS	16.609	CALIFORNIA PARTNERSHIP FOR SAFE COMMUNITIES	SUB TO 2018-GP-BX-4023	\$ 474,148	Research and Development	\$ 920,364,194		\$ 474,1
UPHOLDING THE RULE OF LAW AND PREVENTING WRONGFUL CONVICTIONS TRAINING	16.RD			\$ 199,706	Research and Development	\$ 920,364,194		
VICITIMS OF CHILD PORNOGRAPHY & TRAFFICKING	16.834	National Children's Alliance	LANC-PA-DTVF23	\$ 3,580	N/A	\$ -	\$ -	
DEPARTMENT OF JUSTICE Total							\$ 353,642	\$ 2,507,5
DEPARTMENT OF STATE								
INTERNATIONAL PROGRAMS TO COMBAT HUMAN TRAFFICKING	19.019	INNOVATIONS FOR POVERTY ACTION (IPA)	USDOS-20-10001-X2	\$ 7,484	Research and Development	\$ 920,364,194	\$ -	\$ 7,41
INTERNATIONAL PROGRAMS TO COMBAT HOMAN TRAFFICKING								
INTERNATIONAL PROGRAMS TO COMBAT HOWAN TRAFFICATING INTERNATIONAL PROGRAMS TO SUPPORT DEMOCRACY, HUMAN RIGHTS AND LABOR	19.345	INTERNATIONAL ORGANIZATION FOR MIGRATION	IOM/CM-CPC2019	\$ 4,120	Research and Development	\$ 920,364,194	\$ -	\$ 4,12

	Federal	Name of Funder	Assianed By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
IPA FOR EUGEN DIMANT, ASSOCIATE FELLOW FOR THE OFFICE OF EVALUATION SC	19.U15			\$ 40,909	N/A	\$ - \$	- \$	40,90
PUBLIC DIPLOMACY PROGRAMS	19.040			\$ 63,415	N/A	\$ - \$	- \$	63,41
U.S. AMBASSADORS FUND FOR CULTURAL PRESERVATION	19.025			\$ 156,370	N/A	\$ - \$	- \$	156,370
UPDATING MEASURES OF LOW-VALUE CARE IN MEDICARE	19.RD			\$ 14,476	Research and Development	\$ 920,364,194 \$	·	14,47
DEPARTMENT OF STATE Total						<u>\$</u>	23,018 \$	1,059,32
DEPARTMENT OF TRANSPORTATION								
AIR TRANSPORTATION CENTERS OF EXCELLENCE HIGHWAY TRAINING AND EDUCATION	20.109 20.215			\$ 105,726 \$ 36,109	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		105,72 36.10
NATIONAL SLEEP STUDY TECHNICAL SUPPORT	20.215 20.RD			\$ 1,024,605	Research and Development	\$ 920,364,194 \$,
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701	CARNEGIE MELLON UNIVERSITY	1080376-379208	\$ 479,498	Research and Development	\$ 920,364,194 \$		222,54
UNIVERSITY TRANSPORTATION CENTERS PROGRAM	20.701	UNIVERSITY OF TEXAS AT AUSTIN	UTA17-000185	\$ 479,498	Research and Development	\$ 920,364,194 \$		
DEPARTMENT OF TRANSPORTATION Total		SHIVE ISH TO TEXAS AT ASSIN	01A17 000103	,		\$,
DEPARTMENT OF TREASURY								, , , , ,
COVID -19 - CORONAVIRUS STATE AND LOCAL FISCAL RECOVERY FUNDS	21.027	Pennsylvania School-Based Health Alliance	FAIN# SLFRP1746	\$ 446,951	N/A	\$ - \$	- \$	75,00
COVID-19 - CORONAVIRUS STATE AND LOCAL FISCAL RECOVERY FUNDS	21.027	PENNSYLVANIA COMMISSION ON CRIME AND	2022-SF-VI-36833	\$ 446,951	N/A	\$ - \$	- \$	371,95
	21.027	DELINQUENCY	2022-31-11-30033	3 440,331	14/4	, ,	- 3	
DEPARTMENT OF TREASURY Total						<u>\$</u>	<u>- \$</u>	446,95
LIBRARY OF CONGRESS								
USING PRIMARY SOURCES TO SUPPORT CIVICALLY ENGAGED ARGUMENT WRITING IN	42.U08			\$ 48,322	N/A	\$ - \$	- \$	
LIBRARY OF CONGRESS Total						<u>\$</u>	<u> </u>	48,32
NATIONAL AERONAUTICS & SPACE ADMINISTRATION								
AERONAUTICS	43.002			\$ 5,854	Research and Development	\$ 920,364,194 \$		
COVID-19 - SCIENCE	43.001	DENINGWI VANIA CT. TO	C004 C4C	\$ 881,061	Research and Development	\$ 920,364,194 \$		
EDUCATION	43.008	PENNSYLVANIA STATE UNIVERSITY	S001610-NASA	\$ 24,560 \$ 24,560	Research and Development	\$ 920,364,194 \$		12,56
EDUCATION EXPLORATION	43.008 43.003	PENNSYLVANIA STATE UNIVERSITY	S002820-NASA	, , , , , , ,	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		
EXPLORATION	43.003	BAYLOR COLLEGE OF MEDICINE MASSACHUSETTS GENERAL HOSPITAL	700001550 236754	\$ 1,223,847 \$ 1,223,847	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		
EXPLORATION	43.003	WASSACHUSETTS GENERAL HUSPITAL	230/54	\$ 1,223,847	Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		1,072,08
FOAM OPTICS AND MECHANICS	43.RD			\$ 37,247	Research and Development	\$ 920,364,194 \$		
NEID GUARANTEED-TIME OBSERVING (GTO)	43.RD			\$ 37,247	Research and Development	\$ 920,364,194 \$		28,316
SCIENCE	43.001	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	097657-17658	\$ 881,061	Research and Development	\$ 920,364,194 \$	- Ś	272,060
SCIENCE	43.001	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00003917	\$ 881,061	Research and Development	\$ 920,364,194 \$		
SCIENCE	43.001			\$ 881,061	Research and Development	\$ 920,364,194 \$		
SPACE OPERATIONS	43.007			\$ 304,814	Research and Development	\$ 920,364,194 \$	67,332 \$	304,81
				\$ 429,153	Research and Development	\$ 920,364,194 \$		429,153
SPACE TECHNOLOGY	43.012							
SPACE TECHNOLOGY NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total	43.012			7 423,233	nescuren una perciopinent	\$	214,643 \$	2,906,53
				7 423,233	nescuren una Development	<u> </u>	214,643 \$	2,906,53
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total				\$ 147,884	N/A	\$ - s		
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOV	WMENT FOR THE HUMANITIES					<u>\$</u>	- \$	147,884
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS	WMENT FOR THE HUMANITIES 45.301 45.312 45.024	HENRY M. JACKSON FOUNDATION	5759	\$ 147,884	N/A	\$ - \$	- \$	147,88 39,48
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024			\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766	N/A Research and Development N/A N/A	\$ - \$	- \$ - \$ - \$	147,88- 39,48: 92,30
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO DRIGHNIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO DRIGHNIZATIONS AND INDIVIDUALS	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025	MID ATLANTIC ARTS FOUNDATION	2023-2910	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100	N/A Research and Development N/A N/A N/A	\$ - \$ \$ 920,364,194 \$ \$ - \$	- \$ - \$ - \$	147,88- 39,48: 92,300 244,46
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS, PARTNERSHIP AGREEMENTS	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION	2023-2910 2023-2969	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100	N/A Research and Development N/A N/A N/A N/A	\$ - \$ \$ 920,364,194 \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48 92,30 244,46 8,40 8,40
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025	MID ATLANTIC ARTS FOUNDATION	2023-2910	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100	N/A Research and Development N/A N/A N/A N/A N/A	\$ - \$ \$ 920,364,194 \$ \$ - \$ \$ - \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48 92,30 244,46 8,40 8,40 6,30
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total SITIUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTINERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF IDEGITAL HUMANITIES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.025 45.169	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION	2023-2910 2023-2969	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458	N/A Research and Development N/A N/A N/A N/A N/A N/A N/A N/A	\$ - \$ \$ 920,364,194 \$ \$ - \$ \$ - \$	- S - S - S - S - S - S - S - S - S - S	147,88 39,48: 92,300 244,46i 8,40 8,40 6,30 3,45
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.025 45.025 45.025 45.025 45.169	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION	2023-2910 2023-2969 2023-3036	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000	N/A Research and Development N/A	\$ 5 920,364,194 \$ 5 - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88- 39,48: 92,301 244,46 8,40 8,40 6,30 3,45
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE HARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, DEFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PLESHARCH PROMOTION OF THE HUMANITIES, RESEARCH	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.164 45.161	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION	2023-2910 2023-2969	\$ 147,884 \$ 39,481 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,000 \$ 24,941	N/A Research and Development N/A N/A N/A N/A N/A N/A N/A N/A N/A Research and Development	\$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$. \$. \$. \$. \$. \$. \$. \$. \$.	147,884 39,481 92,306 244,466 8,401 6,300 3,45: 200,000 4,36
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOtal SITIUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF IGITAL HUMANITIES PROMOTION OF THE HUMANITIES, OFFICE OF IGITAL HUMANITIES PROMOTION OF THE HUMANITIES, OFFICE OF IGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PRESEARCH PROMOTION OF THE HUMANITIES, RESEARCH PROMOTION OF THE HUMANITIES, RESEARCH	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.025 45.025 45.025 45.025 45.169 45.164 45.161	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA	2023-2910 2023-2969 2023-3036	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000	N/A Research and Development N/A	\$ 5 920,364,194 \$ 5 - \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,481 92,306 244,466 8,400 6,300 3,45i 200,000 4,36 38,574
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ATTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.025 45.025 45.025 45.025 45.169 45.164 45.161	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA	2023-2910 2023-2969 2023-3036	\$ 147,884 \$ 39,481 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,000 \$ 24,941	N/A Research and Development N/A N/A N/A N/A N/A N/A N/A N/A N/A Research and Development	\$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ \$. \$. \$. \$. \$. \$. \$. \$. \$.	147,88 39,481 92,306 244,466 8,400 6,300 3,45i 200,000 4,36 38,574
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITIUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS, PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS, PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF IDEITAL HUMANITIES PROMOTION OF THE HUMANITIES, OFFICE OF IDEITAL HUMANITIES PROMOTION OF THE HUMANITIES, OFFICE OF IDEITAL HUMANITIES PROMOTION OF THE HUMANITIES, PRESEARCH PROMOTION OF THE HUMANITIES, RESEARCH PROMOTION OF THE HUMANITIES, RESEARCH SITIUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR N	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.169 45.164 45.161 45.161	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA	2023-2910 2023-2959 2023-3036 SUB00003713	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,888 39,481 92,300 244,460 8,400 6,300 3,45 200,000 4,36 38,57 793,63
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ATTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.025 45.025 45.025 45.025 45.169 45.164 45.161	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA BAYLOR UNIVERSITY	2023-2910 2023-2969 2023-3036 SUB00003713	\$ 147,884 \$ 39,831 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941 \$ 42,941	N/A Research and Development N/A	\$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,481 92,306 244,466 8,400 6,300 3,45 200,000 4,36 38,57 5793,63
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITTUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS PARTINESHIP AGREEMENTS PROMOTION OF THE ARTS PARTINESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.164 45.161 45.161 WMENT FOR THE HUMANITIES To 47.074	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA Tal BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE	2023-2910 2023-2969 2023-3036 SUB00003713	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937	N/A Research and Development N/A	\$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,300 244,464 8,40 6,30 3,45 200,000 4,36 793,65 793,65
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48 92,300 244,466 8,400 6,300 3,45 200,000 4,35 38,57 793,63
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA Tal BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE	2023-2910 2023-2969 2023-3036 SUB00003713	\$ 147,884 \$ 39,811 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,300 244,464 8,400 6,300 3,45 200,000 4,36 38,57: 793,63 167,66 173,22; 241,99 21,96
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITUTUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES BIOLOGICAL SCIENCES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937	N/A Research and Development N/A N/A N/A N/A N/A N/A N/A N/A Research and Development	\$ 920,364,194 \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,30i 244,464 8,40 6,30 3,455 200,00i 4,36 38,57,793,63 167,66 173,22 241,99 21,96;
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL ISTITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW BIOLOGICAL SCIENCES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.164 45.161 45.161 47.074 47.074 47.074 47.074 47.074	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001	\$ 147,884 \$ 39,811 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48 92,30 244,46 8,40 6,33 3,45 200,00 4,36 38,57,5 793,63 167,66 173,22 241,99 21,96 2,945,23
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH PROMOTION OF THE HUMANITIES_RESEARCH SITUTITE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW BIOLOGICAL SCIENCES BIOLO	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.169 45.161 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.074 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-3001 1123580-448452 2(GG017134-01) CICR2020-UP-07	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48; 92,30 244,46 8,40 6,30 3,45 200,000 4,36 38,57,5 793,63 167,66 173,22 241,99 21,96; 2,945,23 10,63; 193,89;
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTINESHIP AGREEMENTS PROMOTION OF THE HASTS_PARTINESHIP AGREEMENTS PROMOTION OF THE HASTS_PARTINESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE S BIOLOGICAL SCIENCES BI	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.164 45.161 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074 47.074 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY UNIVERSITY CARNEGIE MELLON UNIVERSITY COLUMBIA UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(GG017134-01) CIF 2020-UP-97 CIF 2020-UP-97	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,301 244,666 8,40 6,30 3,45 200,000 4,36 38,57: 793,63 167,66 173,22 241,99 21,965 2,945,23 10,633 13,939 11,939 11,939 11,939 11,939 11,939 11,939 11,939
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ATTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, DEFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUPPLICE FOR PROMOTION OF THE HUMANITIES, PUPPLICE OF DIGITAL HUMANITIES PROMOTION OF THE ATO THE HUMANITIES PROMOTION OF THE ATO THE ATO THE HUMANITIES PROMOTION OF THE ATO THE ATO THE	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.169 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA tal BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELION UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(G6017134-01) CIC2020-UP-07 CIC2020-UP-35 CIC2020W-97-55	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 42,941 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,301 244,666 8,40 6,30 3,45 200,000 4,36 38,57: 793,63 167,66 173,22 241,99 21,965 2,945,23 10,633 13,939 11,939 11,939 11,939 11,939 11,939 11,939 11,939
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE S BIOLOGICAL SCIENCES BIOL	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.161 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074 47.074 47.070 47.070 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA tal BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION OPPUTING RESEARCH ASSOCIATION OPPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-001 1123880-448452 2(GG017134-01) CIF2020-UP-07 CIF2020-UP-05 SUB0000480	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,300 244,66 8,40 6,30 3,45 200,00 4,36 38,57; 167,66 173,22 241,99 21,96; 2,945,23 10,53 193,89 18,99 60,01
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total SITUITE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS BIOLOGICAL SCIENCES BIOLOGICAL S	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.161 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAND IEEGO	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1125880-48452 2(GG017134-01) CIF2020-UP-07 CIF2020-UP-07 CIF2020-UP-35 SUB00000380 KR 704614	\$ 147,884 \$ 39,821 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,301 244,464 8,40 6,30 3,45 200,000 4,36 38,57, 793,63 117,66 124,199 21,96: 2,945,23 10,63 193,89 60,011 50,381
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES BIOLOGICAL SCIENCE	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.164 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION OPHICTON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF CALIFORNIA, SANTA CRUZ	2022-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(GG017134-01) CIF2020-UP-35 CIF2020-UP-35 SUB0000080 KR 704614 A22-0123-5002	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,300 244,466 8,40 6,30 3,45 200,000 4,35 5,793,63 167,66 173,22 241,99 21,965 2,945,23 10,53 193,89 15,90 60,01 50,01 61,0
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, DEFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS BIOLOGICAL SCIENCES BIOL	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.074 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARREGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETTON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAND IEGO UNIVERSITY OF MEMPHIS	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(GG017134-01) CIF2020-UP-07 CIF2020-UP-35 SUB0000400 KR 7704614 A22-0123-5002 14640813	\$ 147,884 \$ 39,811 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 20,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 39,230 244,466 8,40 6,30 3,45 200,000 4,36 38,57 793,63 167,66 173,222 241,99 21,966 173,28 10,633 193,89 18,99 60,01 50,351 (11 414,455
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH SITUTET OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.169 45.161 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION OPHICTON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF CALIFORNIA, SANTA CRUZ	2022-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(GG017134-01) CIF2020-UP-35 CIF2020-UP-35 SUB0000080 KR 704614 A22-0123-5002	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 24,941 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,685	N/A Research and Development N/A	\$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 92,300 244,466 8,40 6,30 3,45 200,000 4,36 5,793,63 167,66 173,22 241,99 21,965 2,945,23 10,63 118,999 60,01 50,35 (14,45 (14,45 (1,6) (
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INATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, DEFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS BIOLOGICAL SCIENCES BIOLOGICAL	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.025 45.169 45.161 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARREGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETTON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAND IEGO UNIVERSITY OF MEMPHIS	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(GG017134-01) CIF2020-UP-07 CIF2020-UP-35 SUB0000400 KR 7704614 A22-0123-5002 14640813	\$ 147,884 \$ 39,481 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,	N/A Research and Development N/A	\$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 39,48: 92,300 244,66: 8,40 6,30 3,45 200,000 4,36: 573,22 241,99 21,96: 22,945,23 10,63: 13,39: 16,76: 60,01: 50,358: (144,45: 41,45: 41,45: 62,85,258: 85,277 150,62: 85,278 22,86:
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NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION INDICAGAL SCIENCES BIOLOGICAL SCIE	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.026 45.169 45.161 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARREGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETTON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAND IEGO UNIVERSITY OF MEMPHIS	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(GG017134-01) CIF2020-UP-07 CIF2020-UP-35 SUB0000400 KR 7704614 A22-0123-5002 14640813	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 39,280 244,466 8,40 6,30 3,45 200,00 4,36 38,57 59,36 167,66 173,22 241,99 21,966 2,945,23 10,33 18,99 60,01 50,35 (16 41,45 41,45 41,45 1,26 (8 89,27 150,62 8,515,87 228,86 303,39
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUPPLIC PROGRAMS PROMOTION OF THE H	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.169 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF GEMPHIS UNIVERSITY OF MEMPHIS UNIVERSITY OF SOUTHERN CALIFORNIA	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-3001 1123580-448452 2(GG017134-01) CIF2020-UP-35 CIF2020Y-07 CIF2020Y-07 CIF2020-UP-35 CIF2020Y-07 CIF	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9	N/A Research and Development N/A	\$ 920,364,194 \$		147,88 39,48 39,23 244,46 8,47 8,47 6,33 34,57 57 793,62 167,66 173,22 241,99 21,56 2,945,52 10,63 193,89 60,01 50,35 (1 414,45 1,26 (8,97 22,50,65 8,515,87 228,86 8,515,87
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PARTNERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES BIOLOGICAL SCIENCE AND ENGINEERING COMPUTER AND INFORMATION S	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.026 45.169 45.161 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF CALIFORNIA, SANTA CRUZ UNIVERSITY OF FAULTONIA, SANTA CRUZ UNIVERSITY OF FOUTHERN CALIFORNIA MEEDAN INC	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-8001 1123580-448452 2(GG017134-01) CIF2020-UP-07 CIF2020-UP-07 CIF2020-UP-35 SUB0000080 KR 704614 A22-0123-5002 1640813 SCON-00004285	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9	N/A Research and Development N/A	\$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48 92,30 244,46 8,40 8,40 6,30 3,45 200,00 4,36 38,57 793,63 167,66 173,22 241,99 21,96 2,945,23 193,89 18,99 60,01 50,35 (14 44,45 1,26 ((89,27 150,62 303,92 130,63
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUPPLIC PROGRAMS PROMOTION OF THE H	WMENT FOR THE HUMANITIES 45.301 45.312 45.302 45.024 45.025 45.025 45.025 45.026 45.169 45.161 45.161 45.161 WMENT FOR THE HUMANITIES TO 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF CALIFORNIA, SAN DIEGO UNIVERSITY OF GEMPHIS UNIVERSITY OF MEMPHIS UNIVERSITY OF SOUTHERN CALIFORNIA	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-3001 1123580-448452 2(GG017134-01) CIF2020-UP-35 CIF2020Y-07 CIF2020Y-07 CIF2020-UP-35 CIF2020Y-07 CIF	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48 39,230 244,46 8,40 6,30 3,45 200,00 4,36 38,57 793,63 167,66 173,22 241,99 21,96 60,01 50,35 (11 414,45 1,26 (8,82,77 150,62 8,511,87 228,86 303,92 130,45
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, DEFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES, PRESEARCH STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAND IGEO UNIVERSITY OF CALIFORNIA, SAND IGEO UNIVERSITY OF CALIFORNIA, SAND AND UNIVERSITY OF SOUTHERN CALIFORNIA MEEDAN INC	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-8001 1123580-448452 2(GG017134-01) CIC2020-UP-35 CIF2020-UP-35 CIF2020-UP-35 SUB0000480 KR 704614 A22-013-5002 1640813 SCON-00004285	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,684 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9,658,685 \$ 9	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 39,230 244,466 8,40 6,30 3,45 200,000 4,36 38,57 793,63 167,66 173,22 241,99 21,966 2,945,23 10,53 18,999 60,01 50,351 (14,455 1,26 ((8,8),27 150,62 8,515,87 228,86 238,92 130,45; 5,130,51 5,150,77 64,70
INATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES, OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS BIOLOGICAL SCIENCES COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER AND INFORMATION SCIENC	WMENT FOR THE HUMANITIES 45.301 45.312 45.3024 45.024 45.025 45.025 45.025 45.169 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TO AN	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-5001 1123580-448452 2(G6017134-01) C1C2020-UP-35 C1C2020W-35 SUB0000480 KR 704614 A22-0123-5002 1460813 SCON-00004285 FACTCHAMP/2021/103 ASUB00001004 920085	\$ 147,884 \$ 39,811 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 20,0000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,734,739 \$ 9,734,739 \$ 9,734,739 \$ 9,734,739 \$ 9,734,739 \$ 9,734,739 \$ 9,734,739 \$ 9,734,739 \$ 9,	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,88 39,48: 39,48: 92,300 244,66 8,40 6,30 3,45 200,000 4,36 38,57: 793,63 167,66 173,222 241,99 21,96: 193,891 18,999 60,011 50,355 1,26 89,27: 1,50,535 228,86 303,92 130,45; 5,130,51 5,130,51
NATIONAL AERONAUTICS & SPACE ADMINISTRATION Total SITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PRATIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PARTIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH SITUTET OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER AND INFORMATION SCIENCE AND ENGI	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TAIL BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SAND IGEO UNIVERSITY OF CALIFORNIA, SAND IGEO UNIVERSITY OF CALIFORNIA, SAND AND UNIVERSITY OF SOUTHERN CALIFORNIA MEEDAN INC	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-8001 1123580-448452 2(GG017134-01) CIC2020-UP-35 CIF2020-UP-35 CIF2020-UP-35 SUB0000480 KR 704614 A22-013-5002 1640813 SCON-00004285	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,6	N/A Research and Development N/A	\$ 920,364,194 \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,884 33,481 92,300 244,466 8,400 8,400 8,400 4,365 33,574 167,667 173,222 241,991 21,966 2,945,231 10,638 193,991 60,017 50,358 (166 (6,300 8,274 150,622 8,515,872 228,866 30,3,922 130,455 50,977 64,701 62,564
NATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL SITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS_PRATIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PRATIRESHIP AGREEMENTS PROMOTION OF THE ARTS_PRATIRESHIP AGREEMENTS PROMOTION OF THE HUMANITIES_OFFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_PUBLIC PROGRAMS PROMOTION OF THE HUMANITIES_RESEARCH PROMOTION OF THE HUMANITIES_RESEARCH SITUTET OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW NATIONAL SCIENCE FOUNDATION BIOLOGICAL SCIENCES BIOLOGICAL SCIENCE	WMENT FOR THE HUMANITIES 45.301 45.312 45.3024 45.024 45.025 45.025 45.025 45.169 45.161 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARNEGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SANTA CRUZ UNIVERSITY OF CALIFORNIA, SANTA CRUZ UNIVERSITY OF FALIFORNIA, SANTA CRUZ UNIVERSITY OF SOUTHERN CALIFORNIA MEEDAN INC ARIZONA STATE UNIVERSITY DREXEL UNIVERSITY PURDUE UNIVERSITY PURDUE UNIVERSITY PURDUE UNIVERSITY PURDUE UNIVERSITY	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-8001 1123580-448452 2(GG017134-01) CIC2020-UP-35 CIC20209-87 CIC20209-87 CIC20209-87 SUB0000480 KR 704614 A22-012-35 SUB000480 FACTCHAMP/2021/103 ASUB00001004 920085 10001863-0099	\$ 147,884 \$ 39,481 \$ 336,766 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 200,000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 9,658,	N/A Research and Development N/A	\$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ 920,364,194 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	147,884 39,481 92,306 244,466 8,404 8,404 6,303 3,454 200,000 4,36 3,574 793,63 167,66 173,222 241,99 21,966 2,945,23,10,633 193,899 18,999 60,011 50,355 (144,451 1,266 (8,727 150,622 8,515,87 228,866 303,922 130,453 5,130,55 5,977 64,707 62,566 34,275 98,848
INATIONAL AERONAUTICS & SPACE ADMINISTRATION TOTAL STITUTE OF MUSEUM AND LIBRARY SERVICES OR NATIONAL ENDOWMENT FOR THE ARTS OR NATIONAL ENDOW MUSEUMS FOR AMERICA NATIONAL LEADERSHIP GRANTS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, GRANTS TO ORGANIZATIONS AND INDIVIDUALS PROMOTION OF THE ARTS, PRANTESHIP AGREEMENTS PROMOTION OF THE ARTS, PARTHERSHIP AGREEMENTS PROMOTION OF THE ARTS, PARTHERSHIP AGREEMENTS PROMOTION OF THE HUMANITIES, DEFICE OF DIGITAL HUMANITIES PROMOTION OF THE HUMANITIES, PUBLIC PROGRAMS BIOLOGICAL SCIENCES COMPUTER AND INFORMATION SCIENCE AND ENGINEERING COMPUTER AND INFORMATIO	WMENT FOR THE HUMANITIES 45.301 45.312 45.024 45.024 45.025 45.025 45.025 45.161 45.161 45.161 45.161 47.074 47.074 47.074 47.074 47.070	MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION MID ATLANTIC ARTS FOUNDATION UNIVERSITY OF FLORIDA TABLE BAYLOR UNIVERSITY BOYCE THOMPSON INSTITUTE PURDUE UNIVERSITY UNIVERSITY CORPORATION, THE CARREGIE MELLON UNIVERSITY COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION COMPUTING RESEARCH ASSOCIATION PRINCETON UNIVERSITY UNIVERSITY OF CALIFORNIA, SANT ACRUZ UNIVERSITY OF CALIFORNIA, SANT ACRUZ UNIVERSITY OF ALIFORNIA, SANT ACRUZ UNIVERSITY OF SOUTHERN CALIFORNIA MEEDAN INC ARIZONA STATE UNIVERSITY PURDUE UNIVERSITY PURDUE UNIVERSITY PURDUE UNIVERSITY UNIVERSITY OF PURDUE UNIVERSITY PURDUE UNIVERSITY UNIVERSITY OF LAIFORNIA, INVINE	2023-2910 2023-2969 2023-3036 SUB00003713 1001318-01 20-01 10001908-017 A16-0018-001 A16-0018-001 A16-0018-001 CIT2020-UP-07 CIT2020-UP-35 CIT2020Year3-UP-35 SUB00000480 KR 704614 A22-0123-5002 140813 SCON-00004285 FACTCHAMP/2021/103 ASUB00001004 920085 10001863-009 2022-1655	\$ 147,884 \$ 39,811 \$ 336,766 \$ 23,100 \$ 23,100 \$ 23,100 \$ 23,100 \$ 3,458 \$ 20,0000 \$ 42,941 \$ 42,941 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 3,778,937 \$ 9,658,685 \$ 7,734,179 \$ 7,734,179	N/A Research and Development N/A	\$ 920,364,194 \$	- S - S - S - S - S - S - S - S - S - S	147,884 33,481 92,306 244,406 8,400 6,300 4,365 200,000 4,367 38,574 67,667 173,220 241,991 21,965 2,945,232 10,633 193,896 18,997 60,017 64,156 1,268 9 89,274 150,622 8,515,622 8,515,627 5,130,514 50,970 64,701 62,564 34,275 98,486

	Federal	Name of Funder	Identifying Number Assianed Bv Funder	Federal				
	Federal ALN	Name of Funder Pass-Through	Assigned By Funder Pass-Through	Federal Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	ALN Number	Pass-I nrougn Entity	Pass-Inrougn Entity	Program Total	Mama	Total	Suh-Recinients	Feaerai Expenditures
FRGINFFRING FROM FROM FROM FROM FROM FROM FROM FROM	47.041	CARNEGIE MELLON LINIVERSITY		\$ 18,866,444	Research and Development	\$ 920,364,194	Sub-Recibients	
ENGINEERING	47.041	DREXEL UNIVERSITY	920153	\$ 18,866,444	Research and Development	\$ 920,364,194		,
ENGINEERING	47.041	GEORGIA INSTITUTE OF TECHNOLOGY		\$ 18,866,444	Research and Development	\$ 920,364,194		
ENGINEERING	47.041	NAAMIRA BIOMEDICALS, LLC	1	\$ 18.866.444	Research and Development	\$ 920,364,194		,
ENGINEERING	47.041	OHIO STATE UNIVERSITY	GR126338/SPC-1000006409	\$ 18,866,444	Research and Development	\$ 920,364,194		
ENGINEERING	47.041	ROCHESTER INSTITUTE OF TECHNOLOGY	32684-02	\$ 18.866.444	Research and Development	\$ 920,364,194		\$ 8.719
ENGINEERING	47.041	LINIVERSITY OF CALIFORNIA, IRVINE		\$ 18,866,444	Research and Development	\$ 920,364,194		, .
ENGINEERING	47.041	UNIVERSITY OF HOUSTON	R-19-0095	\$ 18,866,444	Research and Development	\$ 920,364,194		,
ENGINEERING	47.041	LINIVERSITY OF MARYLAND		\$ 18.866.444	Research and Development	\$ 920,364,194		,
ENGINEERING	47.041	UNIVERSITY OF MICHIGAN	3004604526	\$ 18,866,444	Research and Development	\$ 920,364,194	\$	\$ 11,099
FNGINFFRING	47.041	WEST CHESTER UNIVERSITY		\$ 18.866.444	Research and Development	\$ 920,364,194	,	
ENGINEERING	47.041	WEST CHESTER ONIVERSITY	2021-2123103-01	\$ 18,866,444	Research and Development	\$ 920,364,194	7	
GEOSCIENCES	47.050	RUTGERS UNIVERSITY	2063	\$ 556.137	Research and Development	\$ 920,364,194		\$ 60,217
GEOSCIENCES	47.050	NOTOLIS SINVEISITI	2003	\$ 556,137	Research and Development	\$ 920,364,194	\$ - 9	
HARNESSING EVOLUTION TO REVEAL THE MOLECULAR LOGIC OF KINETOCHORE WIRI	47.RD	WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH	Sub to NSF ADV ACCT	\$ 581,286	Research and Development	\$ 920,364,194		\$ 243,711
INTEGRATIVE ACTIVITIES	47.083	Williams Individual on Biomedical Research		\$ 169,926	Research and Development	\$ 920,364,194		
IPA AGREEMENT - PROGRAM DIRECTOR IN THE ROBUST INTELLIGENCE PROGRAM	47.RD			\$ 581,286	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049	PRINCETON UNIVERSITY		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049	PRINCETON UNIVERSITY		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049	TEXAS A&M UNIVERSITY		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049	UNIVERSITY OF DELAWARE		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES MATHEMATICAL AND PHYSICAL SCIENCES	47.049	UNIVERSITY OF PUERTO RICO		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049	UNIVERSITY OF POEKTO KICO		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES MATHEMATICAL AND PHYSICAL SCIENCES	47.049	WASHINGTON UNIVERSITY IN ST. LOUIS		\$ 13,993,227	Research and Development	\$ 920,364,194		
MATHEMATICAL AND PHYSICAL SCIENCES	47.049	SIMOTON ONIVERSITY IN ST. ESUIS		\$ 13,993,227	Research and Development	\$ 920,364,194		
MUSTANG 2 OPERATIONS ON THE GREEN BANK TELESCOPE	47.RD	NATIONAL RADIO ASTRONOMY OBSERVATORY		\$ 581,286	Research and Development	\$ 920,364,194		
OFFICE OF INTERNATIONAL SCIENCE AND ENGINEERING	47.079	NATIONAL NADIO ASTRONOMIT OBSERVATORI		\$ 233,712	Research and Development	\$ 920,364,194		,
PFI-RP: COMPLIANT MANIPULATION OF SMALL, DELICATE, AND CURVED OBJECTS	47.084	SYRACUSE UNIV		\$ 101,573	Research and Development	\$ 920,364,194		
POLAR PROGRAMS	47.078	STRACOSE ONLY		\$ 53,910	Research and Development	\$ 920,364,194		
SBIR PHASE II: SINGLE WEARABLE PATCH FOR COST-EFFECTIVE, RELIABLE, AND	47.RD	HUXLEY MEDICAL.INC.	SUB TO 2136470	\$ 581.286	Research and Development	\$ 920,364,194		
SOCIAL BEHAVIORAL AND ECONOMIC SCIENCES	47.RD 47.075	PRINCETON UNIVERSITY		\$ 3.642.137	Research and Development	\$ 920,364,194		\$ 149,401
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075	WASHINGTON UNIVERSITY IN ST. LOUIS		\$ 3,642,137	Research and Development	\$ 920,364,194		
SOCIAL, BEHAVIORAL, AND ECONOMIC SCIENCES	47.075	WASHINGTON UNIVERSITY IN 31. EUO13		\$ 3,642,137	Research and Development	\$ 920,364,194		
TRANSFORMING EDUCATIONAL TECHNOLOGY THROUGH CONVERGENCE	47.084			\$ 101,573	Research and Development	\$ 920,364,194		
NATIONAL SCIENCE FOUNDATION Total	47.004			3 101,575	Research and Development	,,	\$ 6,607,785	
DEPARTMENT OF VETERANS AFFAIRS							3 6,007,765	3 33,320,773
ACCELERATED AGING AS A CAUSE OF CHRONIC LUNG ALLOGRAFT DYSFUNCTION	64.RD			\$ 4,912,215	Research and Development	\$ 920.364.194	\$ - 9	\$ 10,007
BEERS - VA MERIT AWARD	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	, ,	
BIOACTIVE INJECTABLE IMPLANTS FOR FUNCTIONAL INTERVERTERBRAL DISC REGE	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$,
BROWN,LILY - SAYERS: SUICIDE PREVENTION SERVICES INTEGRATION IN COACHI	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
CARTILAGE REPAIR STRATEGIES TO ALLEVIATE ARTHRITIS PAIN (CARE AP): TAR CHRONIC FOCAL AND DIFFUSE TRAUMATIC BRAIN INJURY: MECHANISMS UNDERLYIN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	,	
				\$ 4,912,215	Research and Development	\$ 920,364,194		
COGNITIVE BEHAVIORAL THERAPY (CBT-I) AUGMENTATION OF TOPIRAMATE IN PRO	64.RD 64.U09			\$ 4,912,215	Research and Development	\$ 920,364,194	,	,
COGNITIVE BEHAVIORAL THERAPY (CBT-I) AUGMENTATION OF TOPIRAMATE IN PRO				\$ 9,443	N/A	\$ -	\$ - \$	
COVID-19 - BIJAL PATEL FY23 COVID IPA COVID-19 - CALFIGH DOHERTY CSP VA IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
				\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - COVID-19: ELUCIDATING THE ROLE OF THE NASAL EPITHELIUM IN SARS-COV-2 I	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	
COVID-19 - COVID-19: UNDERSTANDING THE ROLE OF CORONA VIRUS INDUCED DISRUPTION OF	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 97,787
COVID-19 - FY23 IPA LEA WILLIAMS CSP	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - IPA FOR MARY VALIGA - CSP 2028	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - JAYANA RICHARDSON COVID IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - LEA WILLIAMS COVID-19 IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 14,879
COVID-19 - TAMMY XU CSP #2028 IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - TAMMY XU FY22 COVID IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - VA IPA AGREEMENT FOR MARY VALIGA (DR. ISAACS) 3/6/23-9/30/23	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
COVID-19 - VA IPA: KRISTIN LINN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 18,099
COVID-19 - VA IPA: TAMAR KLAIMAN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	\$ 3,850
DEVELOPING PERSONALIZED MEDICINE STRATEGIES TO INCREASE PHYSICAL ACTIV	64.RD	PHILADELPHIA RESEARCH AND EDUCATION FOUNDATION	JPA AGREEMENT	\$ 4,912,215	Research and Development	\$ 920,364,194	ś - ś	\$ 14,775
DEVELOPMENT OF A MOLECULAR IMAGING SYSTEM FOR SURGICAL SPECIMEN IMAGIN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		,
DEVELOPMENT OF A UNIQUE IN VITRO TEST BED MODEL TO EXPLORE MECHANISMS	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	,	
EVALUATE THE ROLE OF CGAS IN THE TYPE I INTERFERON RESPONSE ELICITED B	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
EVIDENCE BASED PSYCHOTHERAPY PROGRAM	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
EXTRACELLULAR VESICLES AS A NOVEL MEDIATOR FOR ULTRAVIOLET-B LIGHT IND	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		7 77,433
FY23 BIJAL PATEL IPA FOR BAKER VA MERIT	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
GROUP ("PROJECT LIFE FORCE") VS. INDIVIDUAL SUICIDE SAFETY PLANNING RC	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	, ,	
IMMUNOLOGIC MECHANISMS FOR HETEROGENEITY OF CUTANEOUS LUPUS ERYTHEMATO	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	,	
IMPACT OF OVERLOAD AND OVERUSE FOLLOWING SUBSCAPULARIS TEARS: MECHANIS	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	,	9 102,002
IPA - HOLLY BARILLA TO DELIVER CBT FOR INSOMNIA IN PATIENTS WITH SERIO	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	,	
IPA - KEITH BREDEMEIER	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	, ,	,
IPA - RICHARD CRIST (GAMMA)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	,	,.
IPA - STATINS AND CIRRHOSIS: REDUCING EVENTS OF DECOMPENSATION (SACRED	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 42,193
IPA # 2 CHANG R&D (M. VUJKOVIC)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 48,695
IPA # 4, MVP035COVID VUJKOVIC	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 31,384
IPA #1, CHANG-MVP (M. VUJKOVIC)NO RESTRICTS NON-U.S. ENTITY PARTICIPAT	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 92,823
IPA AGREEMENT FOR MELISSA NASCHEK	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		\$ 10,983
IPA AGREEMENT FOR SOFIA LIZZA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	
IPA AGREEMENT FOR XAVIER ARTHUR	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		
IPA ANITA AGARWAL VAST-D-II STUDY	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - <u>\$</u>	\$ 57,474

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
IPA FOR ELIZABETH KRIZMAN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		13,285
IPA FOR K. LINN AND J. YAN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		39,600
IPA FOR KRISTIN LINN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		2,37
IPA FOR MICHAEL PERLIS - COGNITIVE BEHAVIORAL THERAPY (CBT-I) AUGMENTA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	15,411
IPA FOR NAYELI NUNEZ CRUZ ON "COGNITIVE BEHAVIORAL THERAPY FOR INSOMNI	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		44,559
IPA FOR SAEWHAN PARK - RACIAL BIAS IN A VA ALGORITHM FOR HIGH-RISK VET	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		45,692
IPA FOR SAMUEL KLINE CSP 2016 STUDY	64.RD 64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194 \$ 920,364,194	\$ - \$	15,324
IPA FOR ZEAL JINWALA: ANALYSIS OF DATA FROM THE MILLION VETERAN PROGRA	64.RD			\$ 4,912,215	Research and Development	+,,	\$ - \$	23,628
IPA KEMBER-MVP004				\$ 4,912,215	Research and Development	\$ 920,364,194		14,056
IPA LYNCH MIRECC IPA: HUMMY SONG (IMPROVING POST-ACUTE CARE VALUE FOR VETERANS - I01HX0	64.RD 64.U19			\$ 4,912,215 \$ 34.558	Research and Development N/A	\$ 920,364,194		27,198
JULIANA BONILLA FY23 CSP IPA	64.U19 64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	34,558
JULIANNA BONILLA F723 CSP IPA JULIANNA BONILLA IPA FOR VA MERIT FY23	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	5 - 5	22,485
KNEE JOINT RESURFACING WITH ANATOMIC TISSUE ENGINEERED OSTEOCHONDRAL I	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		14,786 139,739
LIVING ELECTRODES FOR AUDITORY REHABILITATION	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		27,294
LYNCH PRIME IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		20.113
MECHANO-ACTIVE ANNULAR REPAIR DEVICE FOR TREATING DISC HERNIATION	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	5 - 5	1.42
NEURAL PROCESSING OF MULTISENSORY SPEECH AT MILLISECOND AND MILLIMETER	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		27.866
NEUROMODULATION AS A THERAPY FOR PTSD FOLLOWING CHRONIC TBI	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		85.116
OPTIMIZATION OF ENGINEERED ENDPLATES TO IMPROVE IN VIVO INTEGRATION OF	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		45.045
PATHOGENESIS OF CHRONIC RHINOSINUSITIS	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		7,93
PATHOLOGIC SIGNALING PATHWAYS IN AML CELLS	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		91,452
PHENOTYPIC AND GENOMIC ARCHITECTURE OF CARDIOVASCULAR DISEASE SUBTYPES	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		71.428
PRECISION CARDIO-METABOLIC PHENOTYPING FOR GENETIC DISCOVERY AND RISK	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		178,220
PREFERENCES ELICITED AND RESPECTED FOR SERIOUSLY ILL VETERANS THROUGH	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		128.26
PROBLEM SOLVING THERAPY PROGRAM IPA: GREGORY BROWN AND KELLY GREEN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		78,346
QUERI SAGE IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		3,65
SAMUEL KLINE IPA - DOES ADDING A TAILORED COGNITIVE BEHAVIORAL THERAPY	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		19.134
SDR: GENOMIC ANALYSIS OF BLAST TUBE INDUCED TBI IN MICE	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	295.898
THE ROLE OF DISC NUTRITION IN THE FTIOLOGY AND CLINICAL TREATMENT OF D	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		75,867
THE ROLE OF FUNCTIONAL IRON DEFICIENCY IN SYSTEMIC COMPLICATIONS OF CK	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		59,235
TISSUE ENGINEERED NIGROSTRIATAL PATHWAY AS A TESTBED FOR EVALUATING AX	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		107,02
TISSUE ENGINEERED TOTAL DISC REPLACEMENT IN A LARGE ANIMAL MODEL	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		173,417
TISSUE-ENGINEERED CONSTRUCTS FOR TREATMENT OF INTERVERTEBRAL DISC DEGE	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		(29,44)
TRANSLATIONAL MODELING OF BRAIN INJURY REHABILITATION TO MAXIMIZE RECO	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		4.84
TRANSPLANTABLE MICRO-TISSUE ENGINEERED NEURAL NETWORKS TO RESTORE THE	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	100,80
TRAUMATIC AND TREATABLE VASCULAR PATHOLOGY IN THE OUTCOME OF TBI	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	51,273
VA IPA AGREEMENT FOR ALEX BURDZY	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	29,194
VA IPA AGREEMENT FOR MARY VALIGA (JHALA) 03/06/2023-09/30/2023	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	19,508
VA IPA AGREEMENT FOR SOFIA LIZZA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	62,344
VA IPA BAOFENG HU & VU NGUYEN - VA MERIT	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	117,714
VA IPA FOR DANIEL TRAUM	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	26,270
VA IPA FOR KEVIN LYNCH	64.U07			\$ 4,636	N/A	\$ -	\$ - \$	4,63
VA IPA FOR KEVIN LYNCH	64.U17			\$ 16,232	N/A	\$ -	\$ - \$	16,232
VA IPA: AILEEN OON	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	30,526
VA IPA: ANKITHA RAO (PCCHW-FFY 2022)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	14,211
VA IPA: ANTHONY DAVIS (PCCHW)-FFY 2022	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	96,435
VA IPA: DENERALE JONES (PCCHW-FFY 2022)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	66,708
VA IPA: FRANYA HUTCHINS-PATIENT ALIGNED CARE TEAM (PACT) MOU	64.U16			\$ 53,042	N/A	\$ -	\$ - \$	53,042
VA IPA: GENEVIEVE KANTER (PROJECT NUMBER: 1101HX003345-01A2)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	13,483
VA IPA: JINGYI WU (CARDIOVASCULAR CARE AND OUTCOMES FOR VETERANS EXPER	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	24,850
VA IPA: JINGYI WU (PROJECT NUMBER: 1101HX003345-01A2)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	63,212
VA IPA: JINGYI WU (RACIAL AND ETHNIC DIFFERENCES IN PRESENTATION AND Q	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	(9,305
VA IPA: LAURAELLEN ASHCRAFT	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	100,638
VA IPA: MOLLY KNOWLES (PCCHW-FFY 2022)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		18,599
VA IPA: PHOEBE WHITESIDE (VA QUERI GRANT)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		4,88
VA IPA: RANDY HASTINGS (PCCHW)-FFY 2022	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		96,434
VA IPA: RAVISHANKAR JAYADEVAPPA (VISN PROJECT)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		16,497
VA IPA: REBECCA HUBBARD (VISN PROJECT)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		4,47
VA IPA: RUCHA KANDLUR (PCCHW-FFY 2022)	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		15,549
VA IPA-ANEEZA AGHA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		83,014
VA MERIT - STELTZ IPA	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		35,908
VA MERIT AWARD: IMMUNE AND GENETIC CONTROLS OF TISSUE REGENERATION IN	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194		178,374
VA/IPA AGREEMENTS FOR MARY VALIGA, JAMES KEITH AND XIAOWANG QU	64.U06			\$ 9,754	N/A	\$ -	* *	9,75
YEAR 1 IPAS FOR MAUCK/BURDICK VA SPIRE PROJECT: "HYDROGEL DELIVERY OF	64.RD			\$ 4,912,215	Research and Development	\$ 920,364,194	\$ - \$	31,793
DEPARTMENT OF VETERANS AFFAIRS Total							\$ <u>-</u> \$	5,039,88
ENVIRONMENTAL PROTECTION AGENCY								
ENVIRONMENTAL FINANCE CENTER GRANTS	66.203	UNIVERSITY OF MARYLAND	108979-Q3641201	\$ 5,520	N/A	\$ -	, ,	5,52
OFFICE OF RESEARCH AND DEVELOPMENT CONSOLIDATED RESEARCH/TRAINING/FELLOWSHIPS OFFICE OF RESEARCH AND DEVELOPMENT CONSOLIDATED RESEARCH/TRAINING/FELLOWSHIPS	66.511	VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY WATER RESEARCH FOUNDATION	451533-19314 5200	\$ 61,440 \$ 61,440	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		27,95i 33,49i
ENVIRONMENTAL PROTECTION AGENCY Total	66.511	WATER RESEARCH FOUNDATION	5200	ə b1,440	nesearch and Development	3 32U,304,194	• - 5 \$ - <u>\$</u>	33,49 66,9 6
DEPARTMENT OF ENERGY								
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135	COLORADO STATE UNIVERSITY	G-85115-02	\$ 436,445	Research and Development	\$ 920,364,194		(14,86
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY	81.135	COMMUNITY ENERGY VENTURES	SUB TO DE-AR0001237	\$ 436,445	Research and Development	\$ 920,364,194	7 7	53,28
	81.135			\$ 436,445	Research and Development	\$ 920,364,194		398,02
ADVANCED RESEARCH PROJECTS AGENCY - ENERGY								
ADVANCEMENT OF BULK ACOUSTIC WAVE DEVICES USING STRATEGICALLY POLED AC	81.RD	SANDIA NATIONAL LABORATORY	2424695	\$ 1,535,106	Research and Development	\$ 920,364,194		
ADVANCEMENT OF BULK ACOUSTIC WAVE DEVICES USING STRATEGICALLY POLED AC ATOMS-TO-SYSTEMS CO-DESIGN: TRANSFORMING DATA FLOW TO ACCELERATE SCIEN	81.RD 81.RD	STANFORD UNIVERSITY	223135	\$ 1,535,106	Research and Development	\$ 920,364,194	\$ - \$	28,452 74,108
ADVANCEMENT OF BULK ACOUSTIC WAVE DEVICES USING STRATEGICALLY POLED AC	81.RD						\$ - \$ \$ - \$	

	Federal	Name of Funder	Identifying Number Assigned By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
CONSERVATION RESEARCH AND DEVELOPMENT	81.086	PIXELLIGENT TECHNOLOGIES		\$ 202,311		\$ 920,364,194		(-,
CONSERVATION RESEARCH AND DEVELOPMENT CONSERVATION RESEARCH AND DEVELOPMENT	81.086 81.086	PIXELLIGENT TECHNOLOGIES TEXAS A&M UNIVERSITY	SUB TO DE-EE0010211.0000 M2300700	\$ 202,311 \$ 202,311	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
DATA-DRIVEN FLUID MECHANICS: LEARNING RHEOLOGY FROM FLOW VISUALIZATION	81.086 81.RD	SANDIA NATIONAL LABORATORY	M2300700 PO# 2464339	\$ 1,535,106	Research and Development	\$ 920,364,194		
DEEP UNDERGROUND NEUTRINO EXPERIMENT (DUNE)	81.RD	SANDIA NATIONAL LABORATORY		\$ 1,535,106	Research and Development	\$ 920,364,194		
DESIGN OF A TARGET AND DICHROICON FOR PHOTON SORTING AT CHESS	81.RD			\$ 1,535,106	Research and Development	\$ 920,364,194		
EOS DETECTOR	81.RD			\$ 1,535,106	Research and Development	\$ 920,364,194		
FUTURE RELEVANCE OF PROTON AND FLASH RADIOTHERAPY TO THE ORS MISSION	81.RD	LAWRENCE LIVERMORE NATIONAL LABORATORY	B655304	\$ 1,535,106	Research and Development	\$ 920,364,194		25,032
HIGH PERFORMANCE ELECTROMECHANICAL FILTERS REALIZED IN HIGHLY DOPED AL	81.RD	SANDIA NATIONAL LABORATORY	2093801	\$ 1,535,106	Research and Development	\$ 920,364,194	\$ - \$	26,119
HYBRID QUANTUM/CLASSICAL ALGORITHMS FOR PHOTOCHEMISTRY AND NONADIABATI	81.RD	STANFORD LINEAR ACCELERATOR CENTER	N/A	\$ 1,535,106	Research and Development	\$ 920,364,194	\$ - \$	
ITK DICING	81.RD			\$ 1,535,106	Research and Development	\$ 920,364,194	\$ - \$	
ITK STRIPS ASSEMBLY AND TESTING	81.RD			\$ 1,535,106	Research and Development	\$ 920,364,194		
MULTI-SOURCE LEARNING-ACCELERATED DESIGN OF HIGH-EFFICIENCY MULTI-STAG NON-PROLIFERATION ANTI-NEUTRINO RESEARCH	81.RD 81.RD	UNITED TECHNOLOGIES RESEARCH CENTER		\$ 1,535,106 \$ 1,535,106	Research and Development	\$ 920,364,194		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.KD 81.049	LAWRENCE LIVERMORE NATIONAL LABORATORY CORNELL UNIVERSITY	B651369 85989-11289	\$ 1,535,106 \$ 13.108.975	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	\$ 15,873 \$	59,136
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	FLORIDA STATE UNIVERSITY		\$ 13,108,975 \$ 13.108.975	Research and Development	\$ 920,364,194	\$ - \$. ,
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	JOHNS HOPKINS UNIVERSITY		\$ 13,108,975	Research and Development	\$ 920,364,194		(0)=0
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	RADIATION MONITORING DEVICES, INC.	C22-03	\$ 13,108,975	Research and Development	\$ 920,364,194		.,
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	STONY BROOK		\$ 13,108,975	Research and Development	\$ 920,364,194		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	STONY BROOK	86736/1158349/2	\$ 13,108,975	Research and Development	\$ 920,364,194		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	UNIVERSITY OF CALIFORNIA, BERKELEY		\$ 13,108,975	Research and Development	\$ 920,364,194		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	UNIVERSITY OF DELAWARE	58370	\$ 13,108,975	Research and Development	\$ 920,364,194		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL		\$ 13,108,975	Research and Development	\$ 920,364,194		
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049	UNIVERSITY OF TEXAS AT ARLINGTON	2019GC4293	\$ 13,108,975	Research and Development	\$ 920,364,194		104,58
OFFICE OF SCIENCE FINANCIAL ASSISTANCE PROGRAM	81.049			\$ 13,108,975	Research and Development	\$ 920,364,194		11,361,815
PIPELINE INFRASTRUCTURE OPERATIONS PERSONNEL EFFORT FOR THE LSST DARK	81.RD	STANFORD LINEAR ACCELERATOR CENTER		\$ 1,535,106	Research and Development	\$ 920,364,194	\$ - \$	58,197
REMOVABLE ADHESIVES	81.RD	SANDIA NATIONAL LABORATORY	2429549	\$ 1,535,106	Research and Development	\$ 920,364,194		,05
RESEARCH FOR ATLAS EXPERIMENT	81.RD			\$ 1,535,106	Research and Development	\$ 920,364,194		
RESEARCH FOR ATLAS EXPERIMENT - TRT SUBSYSTEM	81.RD			\$ 1,535,106	Research and Development	\$ 920,364,194		
SHAPE CHANGING OF RESPONSIVE ELASTOMER STRUCTURES (SCORES)	81.RD	LAWRENCE LIVERMORE NATIONAL LABORATORY	5030723	\$ 1,535,106	Research and Development	\$ 920,364,194		,
TAILORING PHOTOPHYSICAL ENERGY TRANSFER FOR SELECTIVE SEPARATIONS OF C	81.RD	NATIONAL RENEWABLE ENERGY LABORATORY	SUB-2021-10494	\$ 1,535,106	Research and Development	\$ 920,364,194		161,772
DEPARTMENT OF ENERGY Total							\$ 1,893,979 \$	\$ 15,282,837
DEPARTMENT OF EDUCATION	84.305							
COVID-19 - EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305 84.305	TEACHERS COLLEGE - COLUMBIA UNIVERSITY		\$ 2,624,863 \$ 2.624,863	Research and Development	\$ 920,364,194 \$ 920,364,194		
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305 84.305	AMERICAN INSTITUTE FOR RESEARCH		\$ 2,624,863 \$ 2.624.863	Research and Development Research and Development	\$ 920,364,194		
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP) CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 2,624,863	Research and Development	\$ 920,364,194		-,
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305	FLORIDA STATE UNIVERSITY		\$ 2,624,863	Research and Development	\$ 920,364,194		-, -,
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305	NORTH CAROLINA STATE UNIVERSITY	2022-0714-02	\$ 2,624,863	Research and Development	\$ 920,364,194	\$ - \$	
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305	UNIVERSITY OF CALIFORNIA, DAVIS		\$ 2,624,863	Research and Development	\$ 920,364,194		
EDUCATION RESEARCH, DEVELOPMENT AND DISSEMINATION	84.305	SHIVE ISH OF CHEN CHAIN, BAND		\$ 2,624,863	Research and Development	\$ 920,364,194		
FEDERAL DIRECT LOANS	84,268			\$ 215,478,255	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		
FEDERAL WORK-STUDY PROGRAM	84.033			\$ 3,346,306	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		
NATIONAL RESOURCE CENTERS PROGRAM FOR FOREIGN LANGUAGE AND AREA STUDIES OR FOREIGN LANGUAGE AND	04.045			\$ 1.098.667	N/A	\$ - :	. 47.400 ¢	
INTERNATIONAL STUDIES PROGRAM AND FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP PROGRAM	84.015			\$ 1,098,667	N/A	\$ -:	\$ 17,498 \$	1,098,66
OVERSEAS PROGRAMS - DOCTORAL DISSERTATION RESEARCH ABROAD	84.022			\$ 57,336	Research and Development	\$ 920,364,194	\$ - \$	57,336
OVERSEAS PROGRAMS - GROUP PROJECTS ABROAD	84.021			\$ 44,031	N/A	\$ - :	\$ - \$	44,031
RESEARCH IN SPECIAL EDUCATION	84.324			\$ 43,113	Research and Development	\$ 920,364,194		
SAFE AND DRUG-FREE SCHOOLS AND COMMUNITIES_NATIONAL PROGRAMS	84.184	SCHOOL DISTRICT OF PHILADELPHIA		\$ 82,443	Research and Development	\$ 920,364,194		
SPECIAL EDUCATION_GRANTS TO STATES	84.027	SCHOOL DISTRICT OF PHILADELPHIA	2335/F20	\$ 446,715		\$ 446,715	, ,	
TRIO_STUDENT SUPPORT SERVICES	84.042			\$ 242,911	TRIO Cluster	\$ 1,714,618		
TRIO_TALENT SEARCH	84.044			\$ 302,473	TRIO Cluster	\$ 1,714,618		
TRIO_UPWARD BOUND TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS	84.047 84.287			\$ 1,169,234	TRIO Cluster	\$ 1,714,618		
	84.287 84.287	PENNSYLVANIA DEPARTMENT OF EDUCATION		\$ 656,063 \$ 656,063	N/A	\$ - :	\$ - \$	
TWENTY-FIRST CENTURY COMMUNITY LEARNING CENTERS FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS	84.287 84.007	PENNSYLVANIA DEPARTMENT OF EDUCATION	SUB TO \$287C170038	\$ 555,063	N/A STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666	\$ - \$	
TEACHER EDUCATION ASSISTANCE FOR COLLEGE AND HIGHER EDUCATION GRANTS (TEACH GRANTS)	84.007			\$ 3,121,500	STUDENT FINANCIAL ASSISTANCE STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		
FEDERAL PELL GRANT PROGRAM	84.063			\$ 10,314,930		\$ 273,232,666		
PERKINS LOAN OUTSTANDING LOANS ISSUED AS JULY 1, 2022	84.038			\$ 16,573,964		\$ 273,232,666		16,573,964
DEPARTMENT OF EDUCATION Total				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 390,943 \$	
DEPARTMENT OF HEALTH AND HUMAN SERVICES							, , ,	
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93.353	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201460819-XX	\$ 8,399,916	Research and Development	\$ 920,364,194	\$ - \$	173,33
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93,353	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201460819-XX / PO 20028898-	\$ 8,399,916	Research and Development	\$ 920,364,194		
			RSUB					
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93.353	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 8,399,916	Research and Development	\$ 920,364,194	, ,	
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93.353	JOHNS HOPKINS UNIVERSITY	2004621711	\$ 8,399,916	Research and Development	\$ 920,364,194		
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93.353	MORRIS ANIMAL FOUNDATION	D17CA-501	\$ 8,399,916	Research and Development	\$ 920,364,194	, ,	
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT 21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT	93.353 93.353	WISTAR INSTITUTE	25451-05-314; Xu	\$ 8,399,916 \$ 8,399,916	Research and Development	\$ 920,364,194 \$ 920,364,194		
21ST CENTURY CURES ACT - BEAU BIDEN CANCER MOONSHOT A LATERAL FLOW ASSAY FOR RAPID SALIVA FENTANYL DETECTION (FFENTANYL)	93.353 93.RD	INCTANGES INC		,,.	Research and Development Research and Development			
A LATERAL FLOW ASSAY FOR RAPID SALIVA FENTANYL DETECTION (EFENTANYL) A RAPID MICROFLUIDIC DIAGNOSTIC ASSAY FOR THE MEASUREMENT OF DIRECT OR	93.RD	INSTANOSIS, INC.		\$ 24,356,909 \$ 24,356,909	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
A SCALABLE, PATIENT-CENTERED APPROACH FOR "RIGHT-SIZING" OPIOID PRESCR	93.RD 93.RD	FLOBIO LLC			Research and Development Research and Development	\$ 920,364,194	\$ - \$	
A SCALABLE, PATIENT-CENTERED APPROACH FOR "RIGHT-SIZING" OPIOID PRESCR ACF DATA GOVERNANCE CONSULTING AND SUPPORT EXTENSION CONTRACT	93.RD	SRI INTERNATIONAL		\$ 24,356,909 \$ 24,356,909		\$ 920,364,194		
		SKLINTERNATIONAL			Research and Development	p 920,364,194	· · ›	11,32
ACTIVITIES TO SUPPORT STATE, TRIBAL, LOCAL AND TERRITORIAL (STLT) HEALTH DEPARTMENT RESPONSE TO PUBLIC HEALTH OR HEALTHCARE CRISES	93.391	Pennsylvania Department of Health	SAP# 4100091089	\$ 77,754	N/A	\$ - :	\$ - \$	77,75
ACTIVITY IN WOMEN AT RISK FOR EARLY DELIVERY (AWARE). AN ANCILLARY STU	93.RD	GEORGE WASHINGTON UNIVERSITY	21020	\$ 24.356.909	Research and Development	\$ 920.364.194	s - s	(12,25
ADVANCING SYSTEM IMPROVEMENTS FOR KEY ISSUES IN WOMEN'S HEALTH	93.088	COMMUNITY BEHAVIORAL HEALTH		\$ 111.297	Research and Development	\$ 920,364,194		()
						,	, ,	, .
AFFORDABLE CARE ACT (ACA) GRANTS FOR NEW AND EXPANDED SERVICES UNDER THE HEALTH CENTER PROGRAM	93.527	City of Philadelphia (Dept Public Health)	2320014-00	\$ 144,686	HEALTH CENTER PROGRAM CLUSTER	\$ 153,673	\$ - \$	
	93.527 93.505	City of Philadelphia (Dept Public Health) United Way of Lancaster County	2320014-00 SAP# 4100070241	\$ 144,686 \$ 1,682,021	N/A	\$ 153,673		,

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
	ALN	Pass-Through .	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title AGING RESEARCH	Number 93.866	Entity BANNER HEALTH	Entity 0435-06-08001	**Total \$ 82,836,060	Name Research and Development	* 920,364,194 \$	Sub-Recipients \$ 17,330 \$	Expenditures 142.535
AGING RESEARCH	93.866	BANNER HEALTH BANNER HEALTH		\$ 82,836,060	Research and Development	\$ 920,364,194	5 17,330 \$	142,535
AGING RESEARCH	93.866	BANNER HEALTH	SUB TO R01AG069453	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - 9	
AGING RESEARCH	93.866	BETH ISRAEL DEACONESS MEDICAL CENTER	01063347	\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	BOSTON MEDICAL CENTER	7653	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	BOSTON UNIVERSITY	4500005200	\$ 82,836,060	Research and Development	\$ 920,364,194		171,856
AGING RESEARCH	93.866	BOSTON UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	BOSTON UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	BOSTON UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		,
AGING RESEARCH AGING RESEARCH	93.866 93.866	BOSTON UNIVERSITY	45000055224	\$ 82,836,060 \$ 82,836,060	Research and Development Research and Development	\$ 920,364,194		
AGING RESEARCH AGING RESEARCH	93.866	BRIGHAM AND WOMEN'S HOSPITAL	115388	\$ 82,836,060	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		42,479
AGING RESEARCH	93.866	BRIGHAM AND WOMEN'S HOSPITAL BROWN UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	BROWN UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		272,104 30,739
AGING RESEARCH	93.866	BROWN UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - 9	
AGING RESEARCH	93.866	BROWN UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	CASE WESTERN RESERVE UNIVERSITY	RES514120	\$ 82,836,060	Research and Development	\$ 920,364,194	· - \$	
AGING RESEARCH	93.866	CASE WESTERN RESERVE UNIVERSITY	RES514121	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	CASE WESTERN RESERVE UNIVERSITY	RES514122	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	204,471
AGING RESEARCH	93.866	CEDARS-SINAI MEDICAL CENTER	0002115636	\$ 82,836,060	Research and Development	\$ 920,364,194		540,107
AGING RESEARCH	93.866	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	COGNITION THERAPEUTICS, INC.		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH AGING RESEARCH	93.866 93.866	COLUMBIA UNIVERSITY		\$ 82,836,060 \$ 82.836,060	Research and Development Research and Development	\$ 920,364,194		
		COLUMBIA UNIVERSITY				\$ 920,364,194 \$ \$ 920,364,194 \$		
AGING RESEARCH AGING RESEARCH	93.866 93.866	COLUMBIA UNIVERSITY COLUMBIA UNIVERSITY	1(GG017425-01) 2(GG017543-01)	\$ 82,836,060 \$ 82,836,060	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		
AGING RESEARCH	93.866	COLUMBIA UNIVERSITY COLUMBIA UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194 \$		18,955 5 51,653
AGING RESEARCH	93.866	COLUMBIA UNIVERSITY COLUMBIA UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194 \$		
AGING RESEARCH	93.866	DIADEM	0422507120000	\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	DIAMIR, LLC	Sub to R44AG044860	\$ 82,836,060	Research and Development	\$ 920,364,194		59,241
AGING RESEARCH	93.866	DUKE UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	EMORY UNIVERSITY	A175663	\$ 82,836,060	Research and Development	\$ 920,364,194	· - s	., .
AGING RESEARCH	93.866	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	INDIANA UNIVERSITY	8545	\$ 82,836,060	Research and Development	\$ 920,364,194	s - \$	21,254
AGING RESEARCH	93.866	INDIANA UNIVERSITY	9402-UP	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	INDIANA UNIVERSITY	IN4683234UPEN CS	\$ 82,836,060	Research and Development	\$ 920,364,194		530,410
AGING RESEARCH	93.866	JACKSON LABORATORY	210386-0123-02	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	83,680
AGING RESEARCH	93.866	JOHNS HOPKINS UNIVERSITY	2003994874	\$ 82,836,060	Research and Development	\$ 920,364,194		712,516
AGING RESEARCH	93.866	JOHNS HOPKINS UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194	, ,	
AGING RESEARCH	93.866	KAISER FOUNDATION RESEARCH INSTITUTE	RNG211393-UPENN	\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH AGING RESEARCH	93.866 93.866	KAISER FOUNDATION RESEARCH INSTITUTE	RNG211397-UPENN RNG211400-UPENN	\$ 82,836,060 \$ 82,836,060	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$, ,	
AGING RESEARCH	93.866	KAISER FOUNDATION RESEARCH INSTITUTE MASSACHUSETTS GENERAL HOSPITAL		\$ 82,836,060	Research and Development	\$ 920,364,194 \$ \$ 920.364.194 \$.,
AGING RESEARCH	93.866	MAYO CLINIC JACKSONVILLE	241746 UPA-282916	\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	MAYO CLINIC JACKSONVILLE		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	MAYO CLINIC ROCHESTER		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	MD ANDERSON CANCER CENTER		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	NEW YORK UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	WEI2015-14	\$ 82,836,060	Research and Development	\$ 920,364,194	s - \$	25,773
AGING RESEARCH	93.866	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	WEI-2015-17	\$ 82,836,060	Research and Development	\$ 920,364,194	s - s	1,979
AGING RESEARCH	93.866	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION	WEI2990-16	\$ 82,836,060	Research and Development	\$ 920,364,194	s - \$	411,394
AGING RESEARCH AGING RESEARCH	93.866 93.866	NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION		\$ 82,836,060 \$ 82,836,060	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920.364,194 \$		
AGING RESEARCH	93.866	OHIO STATE UNIVERSITY REGENERATIVE RESEARCH FOUNDATION		\$ 82,836,060	Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		
AGING RESEARCH	93.866	RUTGERS UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	STANFORD UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	STANFORD UNIVERSITY	62680882-192702	\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	TEMPLE UNIVERSITY		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	TUFTS MEDICAL CENTER	5024879 SERV	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, IRVINE	2022-1700	\$ 82,836,060	Research and Development	\$ 920,364,194		29,345
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 B WB344	\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, SAN DIEGO		\$ 82,836,060	Research and Development	\$ 920,364,194	\$ - \$	42,513
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO		\$ 82,836,060	Research and Development	\$ 920,364,194		1 -7
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	1303030	\$ 82,836,060	Research and Development	\$ 920,364,194		203,895
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO		\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	9409sc	\$ 82,836,060	Research and Development	\$ 920,364,194		
AGING RESEARCH	93.866	UNIVERSITY OF CHICAGO		\$ 82,836,060	Research and Development	\$ 920,364,194		24,355
AGING RESEARCH AGING RESEARCH	93.866	UNIVERSITY OF CHICAGO	AWD101518	\$ 82,836,060	Research and Development	\$ 920,364,194 \$		02,270
AGING RESEARCH AGING RESEARCH	93.866 93.866	UNIVERSITY OF COLORADO LINIVERSITY OF COLORADO DENVER	FY21.1105.001 FY22.1105-001	\$ 82,836,060 \$ 82,836,060	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920,364,194 \$		35,174
AGING RESEARCH	93.866	UNIVERSITY OF COLORADO DENVER UNIVERSITY OF FLORIDA		\$ 82,836,060	Research and Development Research and Development	\$ 920,364,194 \$ \$ 920.364.194 \$		21,999
AGING RESEARCH	93.866			\$ 82,836,060	Research and Development	\$ 920,364,194		. ,
AUINU RESEARCH	93.866	UNIVERSITY OF MIAMI	OS00000155	3 82,830,060	nesearch and Development	\$ 920,364,194 S	- \$	111,98

Parlied Parl	Federal Expenditures 165,601 114,452 22,143 79,169 18,595 79,565 167,310 69,286 8,728 15,156 25,374 10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913 18,510 66,730 18,510
Part	165,601 114,452 22,143 79,169 18,595 79,565 167,310 69,286 8,728 15,156 167,310 10,822 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913
AGRIC RESIGNACY 9.16.6 19.16	165,601 114,452 22,143 79,169 18,595 79,565 167,310 69,286 8,728 15,156 25,374 10,823 218,148 77,909 148,851 17,822 (8,938) 16,055 11,558 97,701 166,014 33,170 166,014 37,913
ABING RESARCH 93.66 UNIVESTY OF DAME 10.000000318 5 2.01.0000000000000000000000000000000000	114,452 22,143 79,169 18,595 79,565 167,310 69,286 8,728 15,156 25,374 10,823 218,148 77,909 148,851 172,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913 18,510 66,730
AGINE RESIDANCE 9.8.86 9.8.8	22,143 79,169 18,595 79,565 167,310 69,286 8,728 15,156 218,148 218,148 77,909 148,851 72,822 (8,938) 16,055 11,588 97,701 83,170 166,074 37,913 18,510 66,730
AGRICA RESEARCH 9.3.66 UNIVERSITY OF MAMAR 0.000002113 S 22,185,000 Recearch and Development 5 9,23,54,1214 5 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18,595 167,310 69,286 8,728 15,156 10,822 218,148 77,909 148,851 17,822 (8,938) 16,055 11,558 97,701 83,170 166,014 17,913 18,510 66,730
AGNOR SESAACH 9.8.66 UNIVESTY OF MIAMI 000000315 1 2,38,60 UNIVESTY OF MIAMI 000000316 1 2,38,60 UNIVESTY OF MIAMI 000000316 1 2,38,60 UNIVESTY OF MIAMI 00000316 1 2,38,60 UNIVESTY OF MIAMI 000003	79,565 167,310 69,286 8,728 15,156 25,374 10,823 218,148 77,909 148,851 16,055 11,558 97,701 166,014 33,170 166,014 37,913
Admin (IRSAACH 93.86 UNVISITY O MAMN 000000186 \$ 12.28.00 Recent and Development \$ 93.04.134 \$ 5 \$ \$ \$ Almeit (IRSAACH 93.86 UNVISITY O MAMN 000000186 \$ 12.88.00 Recent and Development \$ 9.00.14.134 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	167,310 69,286 8,728 15,156 25,374 10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913
AGING RISSARCH 9.3.866 UNIVESTOY (MAM) GOSCO02056 5 8,23,05,005 Research and Development 5 9,23,64,151 5 5 3.2.86,000 Research and Development 5 9,23,64,15	69,286 8,728 15,156 25,374 10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913
ABIN RESEARCH 3.9.866 UNIVESTOY OF MAMN COSCOLISION 3.0.10.0000000000000000000000000000000	8,728 15,156 25,374 10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913 18,510 66,730
AGING INSEARCH 9.3.66 UNIVERSITY OF MIAMN	15,156 25,374 10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913 18,510
AGING RESEARCH 3.9.66 1.00 LINCYCENT OF MIAMI 1.00 S. 20.236.03 S. 2.236.00 Research and Development \$ \$ 92.05.04.19 \$ \$ 5	25,374 10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913 18,510
AGING MESHARICH 93.866 UNIVERSITY OF MIAMI SPC 000212 1, 23,150,000 Research and Development 1, 2023,246,139 1, 30 1, 3	10,823 218,148 77,909 148,851 72,822 (8,938) 16,055 11,558 97,701 83,170 166,014 37,913 18,510 66,730
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AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 107887975 5 8.2,385,060 Research and Development 5 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 107880382 5 8.2,385,060 Research and Development 5 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 117800382 5 8.2,385,060 Research and Development 5 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 11200202 5 8.2,285,060 Research and Development 6 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 11200202 5 8.2,285,060 Research and Development 6 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 11200202 5 8.2,285,060 Research and Development 6 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 113002469 5 8.2,285,060 Research and Development 6 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 113002469 5 8.2,285,060 Research and Development 6 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 113002469 5 8.2,285,060 Research and Development 7 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 11300203 5 8.2,285,060 Research and Development 7 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 13300203 5 8.2,385,060 Research and Development 7 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA 13002030 5 8.2,385,060 Research and Development 7 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA SOUN-00002075 5 8.2,385,060 Research and Development 9 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA SOUN-00002075 5 8.2,385,060 Research and Development 9 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA SOUN-00002075 5 8.2,385,060 Research and Development 9 920,364,194 5 - S AGING RESEARCH 9.3.866 UNIVERSITY OF SOUTHERN CALIFORNIA SOUN-00002075 5 8.2,385,060 Research and Development 9 920,364,194 5 - S AGING RESEARCH 9.3.8	32,627
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALFORNIA 107888795 \$ 82,385,600 Research and Development \$ 920,364,134 \$	48,859
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 107890382 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 117340690 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 12904282 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 130284669 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 130284669 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 13728961 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 13728961 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 13728961 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 79634962 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 79634962 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002375 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002385 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002375 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002385 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002375 5 82,285,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MODISON 785492 5 82,856,060 Research and Development 5 920,364,194 5 - 5 AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MODISON	188,471 96,561
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 117340690 \$ 8.23,35,060 Research and Development \$ 920,364,194 \$	97,798
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 12013669 \$ 8.2,836,060 Research and Development \$ 920,364,194 \$	56.340
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 137258051 \$ 82,835,060 Research and Development \$ 920,364,194 \$	205,249
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 137298061 \$ 82,836,060 Research and Development \$ 920,364,194 \$	25,448
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 7954962 \$ 82,836,060 Research and Development \$ 920,364,194 \$	78,253
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA 79634962 \$ 8,2,36,060 Research and Development \$ 920,364,194 \$	429,192
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002475 \$ 82,836,060 Research and Development \$ 920,364,194 \$	37,326
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00002505 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-0000388 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00004383 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00004527 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00004527 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SUN TOWN CONTROL OF THE CALIFORNIA SUN TOWN CONTROL OF T	6,820
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00003388 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-0000438 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00004527 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA Sub to U01AG069057 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SUB U01AG069057 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WASHINGTON UWSC10172 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON TO SEK492 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON TO SEK492 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDERBILT UNIVERSITY VOUNC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDERBILT UNIVERSITY VOUNC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDERBILT UNIVERSITY VUNC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDERBILT UNIVERSITY VUNC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VANDERBILT UNIVERSITY VUNC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364	13,214
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00004323 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SCON-00004527 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA sub to 0101A6068057 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WASHINGTON UWSC10172 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WASHINGTON UWSC103008 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WASHINGTON UWSC103008 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON 785K492 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDELII UNIVERSITY V WISCONSIN-MADISON 785K492 \$ 82,836,060 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDELII UNIVERSITY V WISCONSIN-MADISON RESEARCH 93.866 Research and Development \$ 920,364,194 \$ S AGING RESEARCH 93.866 VAN ANDELII UNIVERSITY V WISCONSIN-MADISON RESEARCH ADD EVELOPMENT \$ 92,364,194 \$ S AGING RESEARCH 93.866 VAN EXERCITE V VINCESTOR SECONSIN-MADISON RESEARCH 93.866 VAN EXERCITE VINCESTOR VINCESTOR SECONSIN-MADISON RESEARCH 93.866 VAN EXERCITE VINCESTOR VINCEST	28,477 6.841
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA SUD 1.00004527 5 82.836.060 Research and Development 5 920,364,194 \$	5,667
AGING RESEARCH 93.866 UNIVERSITY OF SOUTHERN CALIFORNIA sub to U01AG069057 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 UNIVERSITY OF WASHINGTON UWSC10172 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH UNIVERSITY OF WASHINGTON UWSC10308 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON 785K492 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON 785K492 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ RESEARCH 93.866 VANDERBILT UNIVERSITY WINC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ RESEARCH 93.866 VANDERBILT UNIVERSITY WINC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ RESEARCH 93.866 VANDERBILT UNIVERSITY WINC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ RESEARCH 93.866 VANDERBILT UNIVERSITY WINC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10.589
AGING RESEARCH 93.866 UNIVERSITY OF WASHINGTON UWSC10172 5 82,836,060 Research and Development 5 920,364,194 \$ 5 AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON 785K492 5 82,836,060 Research and Development 5 920,364,194 \$	391,952
AGING RESEARCH 93.866 UNIVERSITY OF WISCONSIN-MADISON 785K492 \$ 82,836,060 Research and Development \$ 920,364,194 \$	36,591
AGING RESEARCH 93.866 VAN ANDEL INSTITUTE 40546.1 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY VUMC/1547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY MEDICAL CENTER VUMC/95896 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH AGD RESEARCH 93.866 VANDERBILT UNIVERSITY 101720-114751 \$ 82,836,060 RESEARCH 93.866 VANDERBILT UNIVERSITY 101720	34,646
AGING RESEARCH 93.866 VANDERBILT UNIVERSITY VUMC71547 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 VANDERBILT UNIVERSITY MEDICAL CENTER VUMC5590 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 WAKE FOREST UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$	58,057
AGING RESEARCH 93.866 VANDERBILT UNIVERSITY MEDICAL CENTER VUMC95896 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$ AGING RESEARCH 93.866 WAKE FOREST UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$	32,319
AGING RESEARCH 93.866 WAKE FOREST UNIVERSITY 101720-114751 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$	228,536
	334,209
	17,087 56,515
AGING RESEARCH 93.866 WAKE FOREST UNIVERSITY WFUHS-551083 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$	357,322
AGING RESEARCH 93.866 WAKE FOREST UNIVERSITY HEALTH SCIENCES WFUHS 551083 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$	32.018
AGING RESEARCH 93.866 WASHINGTON UNIVERSITY IN ST. LOUIS WU-22-0098 \$ 82,836,060 Research and Development \$ 920,364,194 \$ - \$	59,752
AGING RESEARCH 93.866 YALE UNIVERSITY CON-80003041 (GR112866) \$ 82,836,060 Research and Development \$ 920,364,194 \$. \$	247,631
AGING RESEARCH 93.866 \$ 82,836,060 Research and Development \$ 920,364,194 \$ 12,473,104 \$	70,020,909
AIDS PROGRAMS & SPECIAL PHARMACY SERVICES 93.917 Pennsylvania Department of Health PPA No. 19016 \$ 17,521 N/A \$ - \$ - \$	17,521
ALCOHOL RESEARCH PROGRAMS 93.273 EPIVARIO, LLC SUB TO IRAIJAA030516-01 5 3,519,209 Research and Development 5 920,364,194 5 - 5 ALCOHOL RESEARCH PROGRAMS 93.273 HENRY M., ACKSON FOUNDATION 5942 5 3,519,209 Research and Development 5 920,364,194 5 - 5	10,768 49,218
ALCOHOL RESEARCH PROGRAMS 93.273 RESEARCH FOUNDATION 5942 \$ 3,519,209 Research and Development \$ 920,364,194 \$. \$ \$ ALCOHOL RESEARCH PROGRAMS 99.273 RESEARCH FOUNDATION FOR MENTAL HYGIENE, INC. POI 10111 \$ 3,519,209 Research and Development \$ 920,364,194 \$. \$ \$ ALCOHOL RESEARCH PROGRAMS	49,218 29,922
ALCOHOL INSERINCH PROGRAMS 93.273 STONY BROOK 88624/2/1162469 \$ 3,519,209 Research and Development \$ 920,344,194 \$ - \$	23,922
ALCOHOL RESEARCH PROGRAMS 93.273 THERANOVA, LLC TW27188-02 \$ 3,519,209 Research and Development \$ 920,364,194 \$ - \$	14,845
ALCOHOL RESEARCH PROGRAMS 93.273 UNIVERSITY OF CALIFORNIA, SAN FRANCISCO 10509sc \$ 3,519,209 Research and Development \$ 920,364,194 \$ - \$	3,526
ALCOHOL RESEARCH PROGRAMS 93.273 YALE UNIVERSITY CON-80003377(GR114506) \$ 3,519,209 Research and Development \$ 920,364,194 \$ - \$	155,733
ALCOHOL RESEARCH PROGRAMS 93.273 YALE UNIVERSITY GR10469 (CON-80001475) \$ 3,519,209 Research and Development \$ 920,364,194 \$ - \$	155,396
ALCOHOL RESEARCH PROGRAMS 93.273 \$ 3,519,209 Research and Development \$ 920,364,194 \$ - \$	2,877,804
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 AMERICAN GASTROENTEROLOGICAL ASSOCIATION 2016002 \$ 89,130,796 Research and Development \$ 920,364,194 \$ - \$	11,026
ALLERGY, IMMUNOLOGY AND TRANSPIANTATION RESEARCH 93.855 AMERICAN GASTROENTEROLOGICAL ASSOCIATION 2016003 \$ 89,130,796 Research and Development \$ 920,364,194 \$ - \$	10,485
ALERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 AMERICAN GASTROCRITEGOLOGICAL ASSOCIATION SUB TO REVAILISES 9 8.91.30,796 Research and Development 5 920,364,194 5 - \$ 6 ALERGY, IMMUNOLOGY AND TRANSPLANTATION RESEAR	2,574
DEMANDIA MEDICAL MEDICAL DELIVER MEDICAL DELIV	16,694
ALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH 93.855 BENAROYA RESEARCH INSTITUTE FY20TN339 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN348 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN348 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN348 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN348 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN348 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN348 \$ 89,130,796 Research and Development \$ 920,364,194 \$ 5 CALLERGY, IMMUNIOLOGY AND TRANSPLANTATION RESEARCH STRUTTURE FY20TN339 \$ 89,130,796 RESEARCH STRUTTURE FY20TN348 \$ 89,130,796	15,392 155.127
ALLEROY, IMMUNOLOGY AND TRANSPLANTATION RESERRCH 93.855 BENAROYA RESERRCH INSTITUTE PYZOTTRS69 5 89,130,759 Research and Development 5 220,359,159 (5 - 5)	17,900
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 BEHAROY IN SERACH INSTITUTE FY21TR927 \$ 89,130,796 Research and Development \$ 920,364,194 \$ - \$	9,459
ALLERGY, IMMUNDLOGY AND TRANSPLANTATION RESEARCH 93.855 BETH ISRAEL DEACONESS MEDICAL CENTER 01063718 \$ 89,130,796 Research and Development \$ 920,344,194 \$	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 BOSTON CHILDREN'S HOSPITAL GENFD0001487482 \$ 89,130,796 Research and Development \$ 920,364,194 \$ - \$	132,286
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 BOSTON CHILDREN'S HOSPITAL GENFD0001903586 \$ 89,130,796 Research and Development \$ 920,364,194 \$. \$	132,286 249,472
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 BOSTON CHILDREN'S HOSPITAL GENFD0002094248 \$ 89,130,796 Research and Development \$ 920,364,194 \$. \$	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH 93.855 BOSTON CHILDREN'S HOSPITAL GENFD0002161942 \$ 89,130,796 Research and Development \$ 920,364,194 \$ - \$	249,472

	Federal	Name of Funder	Identifying Number Assianed Bv Funder	Federal				
	Federal ALN	Name of Funder Pass-Through	Assigned By Funder Pass-Through	Federal Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	ALN Number	Pass-I nrougn Entity	Pass-Inrougn Entity	Program Total	Name	Cluster	Sub-Recipients	Feaerai Expenditures
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201540224		Research and Development	\$ 920,364,194	Sub-Recibients	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201740224	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000464		Research and Development	\$ 920,364,194		, , , , , ,
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CHILDREN'S RESEARCH INSTITUTE	30006393-01	\$ 89,130,796	Research and Development	\$ 920,364,194	- 5	\$ 51,616
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	309363	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	309364		Research and Development	\$ 920,364,194		\$ 25,502
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	sub to R01-AI-145840	,,	Research and Development	\$ 920,364,194		y
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	959-SUB	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	COLUMBIA UNIVERSITY	3 (GG013567-03)	+,,	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE CLINICAL RESEARCH INSTITUTE	A03-5346	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855 93.855	DUKE UNIVERSITY	1UM1-Al144371-01	\$ 89,130,796 \$ 89,130,796	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	, ,	2,002,033
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY DUKE UNIVERSITY	203-1433 2036421		Research and Development	\$ 920,364,194 \$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	2037104	\$ 89,130,796	Research and Development	\$ 920,364,194	,	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	203-9727		Research and Development	\$ 920,364,194		\$ 28,671
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	303001433	\$ 89,130,796	Research and Development	\$ 920,364,194	- 9	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	303001438	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	A030469	\$ 89,130,796	Research and Development	\$ 920,364,194	- :	\$ 172,291
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	A030915		Research and Development	\$ 920,364,194		\$ 631,617
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	A033564	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	A035447		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	SUB TO 5UM1-AI144371		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY	A291031		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855 93.855	EMORY UNIVERSITY EMORY UNIVERSITY	A542882 A676815		Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY EMORY UNIVERSITY	A6/6815 A704725	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY	T860086		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FHI 360	HPTN 091 PO20001123	,,	Research and Development	\$ 920,364,194		,
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FHI 360	HPTN-MGA- UPENN-1		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FHI 360	PO21000094	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FHI 360	SUB TO UM1 AI068619	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 301,366
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FOX CHASE CHEMICAL DIVERSITY CENTER	57-R41AI162385-Penn	\$ 89,130,796	Research and Development	\$ 920,364,194	- 5	\$ 131,241
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FOX CHASE CHEMICAL DIVERSITY CENTER	95-R42AI138630-Penn		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FOX CHASE CHEMICAL DIVERSITY CENTER	G03-R42AI70552-UP	\$ 89,130,796	Research and Development	\$ 920,364,194	- 5	\$ 288,614
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FRED HUTCHINSON CANCER CENTER	0001053254	2 03,130,730	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FRED HUTCHINSON CANCER CENTER	0001110317	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FRED HUTCHINSON CANCER CENTER	0001137868		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	GEORGE WASHINGTON UNIVERSITY	21-M97 S	\$ 89,130,796	Research and Development	\$ 920,364,194		,,
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	INSTITUTE FOR CLINICAL RESEARCH, INC	M71-PN-110-1606-7 TASK ORDER	\$ 89,130,796	Research and Development	\$ 920,364,194	- 5	\$ 11,698
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93,855	JOHNS HOPKINS UNIVERSITY	2003649380	\$ 89.130.796	Research and Development	\$ 920,364,194	- :	\$ 3,807
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	JOHNS HOPKINS UNIVERSITY	2005533918	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	LOYOLA UNIVERSITY OF CHICAGO	1-210155	\$ 89,130,796	Research and Development	\$ 920,364,194	- 9	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	MASSACHUSETTS GENERAL HOSPITAL	234438	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	MASSACHUSETTS GENERAL HOSPITAL	234443	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	MASSACHUSETTS GENERAL HOSPITAL	234447	\$ 89,130,796	Research and Development	\$ 920,364,194		+,
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	MASSACHUSETTS GENERAL HOSPITAL	SUB TO U01AI136816	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855 93.855	NATIONAL JEWISH HEALTH	20123802-UPENN		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH		NORTHWESTERN UNIVERSITY	60060177 PENN	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855 93.855	ROCKEFELLER UNIVERSITY	SUB00000340		Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	SCRIPPS RESEARCH INSTITUTE SCRIPPS RESEARCH INSTITUTE	5-54493 5-54809	\$ 89,130,796 \$ 89,130,796	Research and Development	\$ 920,364,194 \$ 920,364,194		\$ 368,930 \$ 198.860
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	STANFORD UNIVERSITY	62773781-151206	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	TEMPLE UNIVERSITY	268028-UPENN		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF ALABAMA AT BIRMINGHAM	000537145-SC001	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 6,569
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, BERKELEY	00010458	\$ 89,130,796	Research and Development	\$ 920,364,194	- 9	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 BWA857	\$ 89,130,796	Research and Development	\$ 920,364,194	- :	\$ 731,870
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 G LB160		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 G WB030	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 20,313
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 G XC165		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 G YC895	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1560 G ZB545		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855 93.855	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	12776sc	\$ 89,130,796	Research and Development	\$ 920,364,194 \$ 920,364,194		\$ (42)
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO		\$ 89,130,796 \$ 89,130,796	Research and Development Research and Development			
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO UNIVERSITY OF CHICAGO	9260sc SUB00000396)		Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF CHICAGO UNIVERSITY OF HOUSTON	R-17-0049	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF MASSACHUSETTS	OSP30517-01		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF MICHIGAN	SUBK00012761	\$ 89,130,796	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF MICHIGAN	SUBK00014269		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF PITTSBURGH	AWD00002849(135384-3)		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF PITTSBURGH	AWD00002849(135385-3)		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF SOUTHERN CALIFORNIA	SCON-00002341	\$ 89,130,796	Research and Development	\$ 920,364,194	- :	\$ 85,397
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF WASHINGTON	UWSC14417	\$ 89,130,796	Research and Development	\$ 920,364,194	- :	\$ 52,600
	93.855	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC64583		Research and Development	\$ 920,364,194		\$ 440,310
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH			VUMC65908	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 17,680
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	VANDERBILT UNIVERSITY MEDICAL CENTER	***************************************					
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC78982	\$ 89,130,796	Research and Development	\$ 920,364,194	- :	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH			***************************************	\$ 89,130,796 \$ 89,130,796			- :	\$ 27,344

			Identifying Number					
	Federal	Name of Funder	Assianed By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	25900-12-324		Research and Development	\$ 920,364,194	¢ . ‹	\$ 370.683
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	25900-52-324		Research and Development	\$ 920,364,194	ς	\$ 122,429
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	25900-62-324	\$ 89,130,796	Research and Development	\$ 920,364,194	\$	
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	25900-82-324		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	29910-02-374 UPenn		Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	29910-03-383 UPenn		Research and Development	\$ 920,364,194		\$ 187,878
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE	sub to UM1AI164570	,,	Research and Development	\$ 920,364,194		
ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAKINSTITUTE	Sub to DIVITALIDAD/O		Research and Development	\$ 920,364,194		
ALLOSTERIC IMPACT OF NON-ACTIVE-SITE MUTATIONS ON ENZYMATIC FUNCTION	93.RD				Research and Development	\$ 920,364,194		
						, ,,,,,,		
AMERICAN INDIAN CHRONIC RENAL INSUFFICIENCY COHORT STUDY – AI-CRIC	93.047	UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER	3RGL2	\$ 252,973	Research and Development	\$ 920,364,194	\$ - \$	\$ 252,973
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	BRIGHAM AND WOMEN'S HOSPITAL	119899	\$ 21,949,013	Research and Development	\$ 920,364,194	\$ - <u>\$</u>	\$ 18,234
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	CADENZAMED LLC	SUB TO R43AR076265		Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	CHELITERINE	206970	\$ 21,949,013	Research and Development	+,	7	
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH ARTHRITIS. MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	CFD RESEARCH CORPORATION (CFDRC)				\$ 920,364,194 \$ 920,364,194		
		CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GIK1-00000242		Research and Development		, ,	\$ 415,42
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	DREXEL UNIVERSITY	900024		Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	DREXEL UNIVERSITY	900036		Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-G021-4609	\$ 21,949,013	Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	NEW YORK UNIVERSITY	16-A0-00-005518-01		Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	NEW YORK UNIVERSITY	18-A1-00-1000572	\$ 21,949,013	Research and Development	\$ 920,364,194	\$ - \$	\$ 75,30
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	NEW YORK UNIVERSITY GROSSMAN SCHOOL OF	21-A0-00-1006833	\$ 21,949,013	Research and Development	\$ 920,364,194	\$ - 5	\$ 207,64
		MEDICINE			•			
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	TEMPLE UNIVERSITY	258416-UP		Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	THOMAS JEFFERSON UNIVERSITY	080-23000-S27201		Research and Development	\$ 920,364,194		
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	THOMAS JEFFERSON UNIVERSITY	080-23000-S38001		Research and Development	\$ 920,364,194		\$ 111,78
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	UNIVERSITY OF CALIFORNIA, IRVINE	2021-1479	\$ 21,949,013	Research and Development	\$ 920,364,194	\$ - 5	\$ 52,309
					·			
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	UNIVERSITY OF ROCHESTER	SUB00000302/UR FAO:GR532319	\$ 21,949,013	Research and Development	\$ 920,364,194	\$ - \$	\$ 27,458
ARTHRITIS. MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93.846	UNIVERSITY OF SOUTHERN CALIFORNIA	116442662	\$ 21,949,013	Research and Development	\$ 920.364.194	ς	\$ 15.851
ARTHRITIS, MUSCULOSKELETAL AND SKIN DISEASES RESEARCH	93,846	OHIVERSHIT OF SOOTHERIN CHEFFORMIN	110442002	\$ 21,949,013	Research and Development	\$ 920,364,194		,
ASSESSMENT OF THE FFFICACY OF ACUTE PAIN TREATMENTS: AN RTC RE-ANALYSI	93.RD		•	\$ 24,356,909	Research and Development	\$ 920,364,194		\$ 764.302
ASSISTANCE PROGRAMS FOR CHRONIC DISEASE PREVENTION AND CONTROL	93.945	CROHN'S & COLITIS FOUNDATION OF AMERICA	sub to 1-U01-DP-006369-01-00		Research and Development	\$ 920,364,194		
AUTISM COLLABORATION, ACCOUNTABILITY, RESEARCH, EDUCATION, AND SUPPORT	93.945	UNIVERSITY OF CALIFORNIA, LOS ANGELES			Research and Development			
BACTERIAL INTERFERENCE TO PREVENT STAPHYLOCOCCUS AUREUS INFECTION	93.877 93.RD			\$ 243,438	Research and Development	\$ 920,364,194 \$ 920,364,194		
		CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201270822			, , .	,	
BEAT-HIV: DELANEY COLLABORATORY TO CURE HIV-1 INFECTION BY COMBINATION	93.RD	WISTAR INSTITUTE	25900-32-324		Research and Development	\$ 920,364,194		2 303,33.
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	ADVENTIUM ENTERPRISES, LLC	7006-001-001-004	\$ 45,745,061	Research and Development	\$ 920,364,194	,	
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	BRIGHAM YOUNG UNIVERSITY	20-0552		Research and Development	\$ 920,364,194	7	
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	CARNEGIE MELLON UNIVERSITY	1090631-432700	\$ 45,745,061	Research and Development	\$ 920,364,194	\$ - \$	\$ 37,869
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	NORTHWESTERN UNIVERSITY	60051124 UPENN	,,,	Research and Development	\$ 920,364,194	7	, ,,,,,,
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	PENNSYLVANIA STATE UNIVERSITY	6093-UP-DHHS-2653	\$ 45,745,061	Research and Development	\$ 920,364,194	\$ - \$	\$ 26,636
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	PURDUE UNIVERSITY	11001041-060	\$ 45,745,061	Research and Development	\$ 920,364,194	\$ - 9	\$ 2,74
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	RUTGERS UNIVERSITY	1702	\$ 45,745,061	Research and Development	\$ 920,364,194	\$ - 5	\$ 36,773
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	SAINT LOUIS UNIVERSITY	eRS#22288-45656	\$ 45,745,061	Research and Development	\$ 920,364,194	\$ - 5	\$ 3,48
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93,859	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1445 G UE023	\$ 45,745,061	Research and Development	\$ 920,364,194	· \$ - 9	\$ (2,42
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93,859	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	12945sc		Research and Development	\$ 920,364,194		
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93,859	UNIVERSITY OF ILLINOIS	105585-19003	\$ 45,745,061	Research and Development	\$ 920,364,194	\$	
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93,859	UNIVERSITY OF MICHIGAN	SUBK00012742	, .,	Research and Development	\$ 920,364,194	,	
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93,859	UNIVERSITY OF SOUTH FLORIDA	1210-1115-00-A	,,	Research and Development	\$ 920,364,194	7	
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	UNIVERSITY OF WISCONSIN-MADISON	000000933		Research and Development	\$ 920,364,194		
BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	UNIVERSITY OF WISCONSIN-WADISON	000000933	\$ 45,745,061	Research and Development	\$ 920,364,194	7	+,
BLOCK GRANTS FOR COMMUNITY MENTAL HEALTH SERVICES			PAC 0100-0294		N/A			
	93.958	CITY OF PHILADELPHIA				· ·		\$ 3
BLOCK GRANTS FOR COMMUNITY MENTAL HEALTH SERVICES	93.958	PENNSYLVANIA DEPARTMENT OF HUMAN SERVICES	4100091732	\$ 1,132,253	N/A	\$ -	\$ 26,333 \$	\$ 1,132,21
BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE	93.959	PENNSYLVANIA DEPARTMENT OF DRUG AND ALCOHOL	4100093464	\$ 464,964	N/A	\$ -	s - 9	\$ 159,10
BLOCK GRANTS FOR PREVENTION AND TREATMENT OF SUBSTANCE ABUSE	93.959	Pennsylvania Department of Health	SAP# 4100090517		N/A	\$ -	\$ - \$	
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	BOSTON CHILDREN'S HOSPITAL	GENFD0002069091		Research and Development	\$ 920,364,194		
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200770621/962617 -RSUB		Research and Development	\$ 920,364,194		
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201710624		Research and Development	\$ 920,364,194		
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3210081122	\$ 14,279,585	Research and Development	\$ 920,364,194		\$ 24,05
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000690	\$ 14,279,585	Research and Development	\$ 920,364,194		\$ 36,64
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001857	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - \$	\$ 427,67
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE	1187-SUB	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - 5	\$ 56,43
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	CORIELL INSTITUTE (CORIELL CELL REPOSITORIES)	A22-0003-S003	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - \$	\$ 83,339
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	DUKE UNIVERSITY	A034441	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - 9	
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	HACKENSACK MERIDIAN HEALTH	2205-G10159	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - \$	\$ 15,81
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	INDIANA UNIVERSITY	IN4687667UPenn		Research and Development	\$ 920,364,194		
		NEW YORK UNIVERSITY GROSSMAN SCHOOL OF						
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	MEDICINE	21-A2-00-1004666	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - \$	\$ 8,80
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	NORTHWESTERN UNIVERSITY	60056523 PENN	\$ 14,279,585	Research and Development	\$ 920,364,194	\$ - 5	\$ 24.27
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	RESEARCH TRIANGLE INSTITUTE	MOU SUB TO U24HD095254		Research and Development	\$ 920,364,194		
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	RUTGERS UNIVERSITY	SUB0151	\$ 14,279,585	Research and Development	\$ 920,364,194		\$ 22.15
BLOOD DISEASES AND RESOURCES RESEARCH BLOOD DISEASES AND RESOURCES RESEARCH	93.839	TEMPLE UNIVERSITY	SUB0151 270172-UPFNN	\$ 14,279,585 \$ 14.279.585	Research and Development	\$ 920,364,194		
								+ -,-
BLOOD DISEASES AND RESOURCES RESEARCH	93.839	VASOWATCH, LLC	SUB TO R41HL164191		Research and Development	\$ 920,364,194		\$ 40,09
BLOOD DISEASES AND RESOURCES RESEARCH	93.839			\$ 14,279,585	Research and Development	\$ 920,364,194		
BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH	93.080	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	8901210000	\$ 6,121	Research and Development	\$ 920,364,194		\$ (2,35
BLOOD DISORDER PROGRAM: PREVENTION, SURVEILLANCE, AND RESEARCH	93.080	LEHIGH VALLEY HEALTH NETWORK	ATHN_22_23_012	\$ 6,121	Research and Development	\$ 920,364,194		9 0,40
BUILDING COVID-19 VACCINE CONFIDENCE AMONG NURSING STUDENTS, NURSES, A	93.RD	AMERICAN ASSOCIATION OF COLLEGES OF NURSING	SUB TO 6 NU36OE000009-05-01		Research and Development	\$ 920,364,194	\$ - 5	\$ 5,89
CANCER BIOLOGY RESEARCH	93.396	BRIGHAM AND WOMEN'S HOSPITAL	118360	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ - \$	\$ (
CANCER BIOLOGY RESEARCH	93.396	COLUMBIA UNIVERSITY	3(GG017813-01)	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ - 9	\$ 22,031

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder Federal Pass-Through Program		- ·			
	ALN	Pass-Through			Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title CANCER BIOLOGY RESEARCH	Number 93,396	IOHNS HOPKINS LINIVERSITY	Entity 2005928203	* 18,355,305	Research and Development	**Total \$ 920.364.194	Sub-Recipients	<u>Expenditures</u> \$ 118.560
CANCER BIOLOGY RESEARCH	93.396	KAISER PERMANENTE	2005928203 RNG209451-PENN-01	\$ 18,355,305	Research and Development	\$ 920,364,194		\$ 118,560 \$ 312.869
CANCER BIOLOGY RESEARCH	93.396	LANKENALI INSTITUTE FOR MEDICAL RESEARCH		\$ 18,355,305	Research and Development	\$ 920,364,194		. ,
CANCER BIOLOGY RESEARCH	93.396	MD ANDERSON CANCER CENTER	3002015360	\$ 18,355,305	Research and Development	\$ 920,364,194		
CANCER BIOLOGY RESEARCH	93.396	MEMORIAL SLOAN-KETTERING CANCER CENTER		\$ 18,355,305	Research and Development	\$ 920,364,194		, , , ,
CANCER BIOLOGY RESEARCH	93.396	RUSH UNIVERSITY	21080606-Sub01	\$ 18,355,305	Research and Development	\$ 920,364,194		+,
CANCER BIOLOGY RESEARCH	93.396	STANFORD UNIVERSITY		\$ 18,355,305	Research and Development	\$ 920,364,194		, , , , , , , , , , , , , , , , , , , ,
CANCER BIOLOGY RESEARCH	93.396		000531784-SC003	\$ 18,355,305	Research and Development	\$ 920,364,194	7	+
		UNIVERSITY OF ALABAMA AT BIRMINGHAM					-	
CANCER BIOLOGY RESEARCH	93.396	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO:200704	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ -	\$ 9,740
CANCER BIOLOGY RESEARCH	93.396	UNIVERSITY OF VIRGINIA	GB10749	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ -	\$ 95,582
CANCER BIOLOGY RESEARCH	93.396	WISTAR INSTITUTE	25241-02-370	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ -	\$ 377
CANCER BIOLOGY RESEARCH	93.396	WISTAR INSTITUTE	25491-02-363	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ -	\$ 68,330
CANCER BIOLOGY RESEARCH	93.396	WISTAR INSTITUTE	25681-02-373	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ -	\$ 5,299
CANCER BIOLOGY RESEARCH	93.396	WISTAR INSTITUTE		\$ 18,355,305	Research and Development	\$ 920,364,194		\$ 16,219
CANCER BIOLOGY RESEARCH	93.396	WISTAR INSTITUTE	25820-03-369	\$ 18,355,305	Research and Development	\$ 920,364,194		\$ 6,060
CANCER BIOLOGY RESEARCH	93.396	WISTAR INSTITUTE	29017-03-382	\$ 18,355,305	Research and Development	\$ 920,364,194	\$ -	\$ 64,080
CANCER BIOLOGY RESEARCH	93.396			\$ 18,355,305	Research and Development	\$ 920,364,194	\$ 1,684,624	\$ 17,158,655
CANCER CAUSE AND PREVENTION RESEARCH	93.393	BAYLOR COLLEGE OF MEDICINE	7000001740	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 21,999
CANCER CAUSE AND PREVENTION RESEARCH	93.393	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	63147.2010090.669302	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 10,566
CANCER CAUSE AND PREVENTION RESEARCH	93.393	FRED HUTCHINSON CANCER CENTER	0001110119	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 17,859
CANCER CAUSE AND PREVENTION RESEARCH	93.393	HARVARD MEDICAL SCHOOL		\$ 12,455,394	Research and Development	\$ 920,364,194		
CANCER CAUSE AND PREVENTION RESEARCH	93.393	HARVARD UNIVERSITY	115005-5117695	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 42,913
CANCER CAUSE AND PREVENTION RESEARCH	93.393	HARVARD UNIVERSITY		\$ 12,455,394	Research and Development	\$ 920,364,194		
CANCER CAUSE AND PREVENTION RESEARCH	93.393	HOUSTON METHODIST CANCER CENTER	AGMT00008242	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 39,169
CANCER CAUSE AND PREVENTION RESEARCH	93.393	MAYO CLINIC ROCHESTER	UNI-306521	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	
CANCER CAUSE AND PREVENTION RESEARCH	93.393	NEW YORK UNIVERSITY	20-A1-00-1003518	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 43,491
CANCER CAUSE AND PREVENTION RESEARCH	93.393	OHIO STATE UNIVERSITY	60064995	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 20,570
CANCER CAUSE AND PREVENTION RESEARCH	93.393	OHIO STATE UNVERSITY	SPC-1000011311 GR130893	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 13,784
CANCER CAUSE AND PREVENTION RESEARCH	93.393	SUNY DOWNSTATE MEDICAL CENTER		\$ 12,455,394	Research and Development	\$ 920,364,194	, \$ -	\$ 31,375
CANCER CAUSE AND PREVENTION RESEARCH	93.393	UNIVERSITY OF CALIFORNIA, DAVIS	A18-0177-S014	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	
CANCER CAUSE AND PREVENTION RESEARCH	93.393	UNIVERSITY OF CALIFORNIA, DAVIS	A22-1534-S006	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 30,112
CANCER CAUSE AND PREVENTION RESEARCH	93.393	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1647 G CA089	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 67,659
CANCER CAUSE AND PREVENTION RESEARCH	93.393	UNIVERSITY OF CHICAGO	AWD101267 (SUB00000394)	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 427,108
CANCER CAUSE AND PREVENTION RESEARCH	93.393	UNIVERSITY OF SOUTHERN CALIFORNIA	125902890	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 10,508
CANCER CAUSE AND PREVENTION RESEARCH	93.393	WAKE FOREST UNIVERSITY HEALTH SCIENCES	477-101730-114410	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 11,989
CANCER CAUSE AND PREVENTION RESEARCH	93.393	WISTAR INSTITUTE	25893-02-384	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 29,047
CANCER CAUSE AND PREVENTION RESEARCH	93.393	YALE UNIVERSITY	GR108743(CON-80002262)	\$ 12,455,394	Research and Development	\$ 920,364,194	\$ -	\$ 152,345
CANCER CAUSE AND PREVENTION RESEARCH	93.393			\$ 12,455,394	Research and Development	\$ 920,364,194	\$ 1,459,364	\$ 11,394,369
CANCER CENTERS SUPPORT GRANTS	93.397	COLUMBIA UNIVERSITY	1(GG012789-18) PROJECT 2	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 24,010
CANCER CENTERS SUPPORT GRANTS	93.397	DANA-FARBER CANCER INSTITUTE	1204903	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 75,853
CANCER CENTERS SUPPORT GRANTS	93.397	JOHNS HOPKINS UNIVERSITY	2003261994	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 10,636
CANCER CENTERS SUPPORT GRANTS	93.397	JOHNS HOPKINS UNIVERSITY	2004131859	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 633,380
CANCER CENTERS SUPPORT GRANTS	93.397	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	55555	\$ 11,651,337	Research and Development	\$ 920,364,194	7	
CANCER CENTERS SUPPORT GRANTS	93.397	MAYO CLINIC ROCHESTER	THE-182363	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 34,983
CANCER CENTERS SUPPORT GRANTS	93.397	MD ANDERSON CANCER CENTER	3001031131	\$ 11,651,337	Research and Development	\$ 920,364,194	7	7
CANCER CENTERS SUPPORT GRANTS	93.397	MD ANDERSON CANCER CENTER	sub to P50CA221707	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 18,996
CANCER CENTERS SUPPORT GRANTS	93.397	WISTAR INSTITUTE	29050-06-314 PROJECT 3	\$ 11,651,337	Research and Development	\$ 920,364,194	7	
CANCER CENTERS SUPPORT GRANTS	93.397	WISTAR INSTITUTE	29050-08-314	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 298,084
CANCER CENTERS SUPPORT GRANTS	93.397	WISTAR INSTITUTE	29050-09-314; CORE B	\$ 11,651,337	Research and Development	\$ 920,364,194		\$ 275,444
CANCER CENTERS SUPPORT GRANTS	93.397	WISTAR INSTITUTE	29050-10-314 CORE C	\$ 11,651,337	Research and Development	\$ 920,364,194	\$ -	\$ 152,123
CANCER CENTERS SUPPORT GRANTS	93.397			\$ 11,651,337	Research and Development	\$ 920,364,194		\$ 9,421,208
CANCER CONTROL	93.399	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	UG1CA189828-06-UPA3	\$ 2,305,065	Research and Development	\$ 920,364,194	\$ -	\$ 67,248
CANCER CONTROL	93.399	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	001CA103020-07-0FA0	\$ 2,305,065	Research and Development	\$ 920,364,194		\$ 23,691
CANCER CONTROL	93.399	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 2,305,065	Research and Development	\$ 920,364,194		\$ 19,168
CANCER CONTROL	93.399	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	0010/1203020 00 01 /10	\$ 2,305,065	Research and Development	\$ 920,364,194		\$ 19,161
CANCER CONTROL	93.399	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 2,305,065	Research and Development	\$ 920,364,194		
CANCER CONTROL	93.399	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	0010103010 00 01 714	\$ 2,305,065	Research and Development	\$ 920,364,194		
CANCER CONTROL	93.399	OREGON HEALTH & SCIENCE UNIVERSITY	1014562_UPENN	\$ 2,305,065	Research and Development	\$ 920,364,194		
CANCER CONTROL	93.399			\$ 2,305,065	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	AKROTOME, INC.		\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	CASE WESTERN RESERVE UNIVERSITY	NLJJ111/2	\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	CASE WESTERN RESERVE UNIVERSITY	RES514087	\$ 15,347,402	Research and Development	\$ 920,364,194	7	
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	CASE WESTERN RESERVE UNIVERSITY	MEDODIOIO	\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001548	\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	1DGK1-00000307	\$ 15,347,402	Research and Development	\$ 920,364,194	*	
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	DANA-FARBER CANCER INSTITUTE	1308603	\$ 15,347,402	Research and Development	\$ 920,364,194	7	,
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 15,347,402	Research and Development	\$ 920,364,194		,
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	EMORY UNIVERSITY	A723053	\$ 15,347,402	Research and Development	\$ 920,364,194		\$ 33,593
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	JOHNS HOPKINS UNIVERSITY		\$ 15,347,402	Research and Development	\$ 920,364,194	7	+,
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	MAYO CLINIC ROCHESTER		\$ 15,347,402	Research and Development	\$ 920,364,194	,	
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	MAYO CLINIC ROCHESTER		\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	MD ANDERSON CANCER CENTER	3001300107	\$ 15,347,402	Research and Development	\$ 920,364,194		\$ 22,107
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	MEDICAL UNIVERSITY OF SOUTH CAROLINA	A20-0088-S002	\$ 15,347,402	Research and Development	\$ 920,364,194	,	7
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	MEMORIAL SLOAN-KETTERING CANCER CENTER	1343303	\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	MEMORIAL SLOAN-KETTERING CANCER CENTER	300 10 10101201233033	\$ 15,347,402	Research and Development	\$ 920,364,194	7	7 -0,0:-
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	NEW YORK UNIVERSITY	19-A1-00-1002648	\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93,394		60058933 PENN	\$ 15,347,402	Research and Development	\$ 920,364,194		\$ 87,196

	Federal ALN	Name of Funder Pass-Through	Identifying Number Assigned By Funder Pass-Through	Federal Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	10724sc	\$ 15,347,402	Research and Development	\$ 920,364,194	- :	\$ 14,333
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	UNIVERSITY OF KANSAS MEDICAL CENTER	GR15769	\$ 15,347,402	Research and Development	\$ 920,364,194	- :	\$ 11,832
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5114713	\$ 15,347,402	Research and Development	\$ 920,364,194	- :	\$ 48,766
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO 231023	\$ 15,347,402	Research and Development	\$ 920,364,194	- :	\$ 107,56
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	UNIVERSITY OF WASHINGTON	UWSC13971	\$ 15.347.402	Research and Development	\$ 920.364.194		\$ 228,600
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	VERGENT BIOSCIENCE, INC.		2 13,347,402	Research and Development			
								+,
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	XEMED LLC	SUB TO R01CA255434-01	\$ 15,347,402	Research and Development	\$ 920,364,194		
CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394			\$ 15,347,402	Research and Development	\$ 920,364,194		,,
CANCER RESEARCH MANPOWER	93.398			\$ 6,361,370	Research and Development	\$ 920,364,194	476,095	\$ 6,361,37
CANCER TREATMENT RESEARCH	93.395	(UNASSIGNABLE) MOUNT SINAI MEDICAL CENTER	0254-3503-4605	\$ 19,117,616	Research and Development	\$ 920,364,194 \$	- :	\$ 3,68
CANCER TREATMENT RESEARCH	93.395	AIDS MALIGNANCY CONSORTIUM	SUB TO UM1CA121947	\$ 19,117,616	Research and Development	\$ 920,364,194	- 5	\$ 57,15
CANCER TREATMENT RESEARCH	93.395	ALPHATHERA		\$ 19.117.616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	AMERICAN COLLEGE OF RADIOLOGY	1823	\$ 19,117,616	Research and Development	\$ 920,364,194	- 5	
CANCER TREATMENT RESEARCH	93,395	APREA THERAPEUTICS		\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	BRIGHAM AND WOMEN'S HOSPITAL		\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	CASE WESTERN RESERVE UNIVERSITY	RES516736	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	
CANCER TREATMENT RESEARCH	93.395	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000465	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	\$ 21,43
CANCER TREATMENT RESEARCH	93.395	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	U10CA180820-06UPA1A	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	\$ 186,66
CANCER TREATMENT RESEARCH	93.395	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	U10CA180820-06-UPA2A	\$ 19,117,616	Research and Development	\$ 920,364,194	- 5	\$ 19,93
CANCER TREATMENT RESEARCH	93,395	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 19.117.616	Research and Development	\$ 920,364,194	- 9	
CANCER TREATMENT RESEARCH	93.395	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC	U10CA180820-06UPA6C	\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	ECOG-ACRIN MEDICAL RESEARCH FOUNDATION, INC		\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	EMMES CORPORATION	7 UM1CA121947-15	\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	EMMES CORPORATION	SUB TO 2UM1CA121947-14	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	\$ 136,71
CANCER TREATMENT RESEARCH	93.395	FRONTIER SCIENCE & TECHNOLOGY RESEARCH FDN	ECOG PURCHASE SERVICE AGREEMENT	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	\$ 255,86
CANCER TREATMENT RESEARCH	93.395	HARVARD MEDICAL SCHOOL		\$ 19.117.616	Research and Development	\$ 920.364.194		\$ 3.65
CANCER TREATMENT RESEARCH	93.395	JOHNS HOPKINS UNIVERSITY	ABTC 1801	\$ 19,117,616	Research and Development	,,		-,
CANCER TREATMENT RESEARCH	93.395				Research and Development			
		MASSACHUSETTS GENERAL HOSPITAL	231320	\$ 19,117,616		\$ 920,364,194		\$ 80,90
CANCER TREATMENT RESEARCH	93.395	NRG ONCOLOGY		\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	NRG ONCOLOGY	NRG-Langer-GY6	\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	NRG ONCOLOGY	NRG-Pryma-GY6	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	\$ 15,000
CANCER TREATMENT RESEARCH	93.395	NRG ONCOLOGY	NRG-Xiao-GY6	\$ 19,117,616	Research and Development	\$ 920,364,194	- 5	\$ 7,15
CANCER TREATMENT RESEARCH	93,395	ONCOSTING LLC	SUB TO 1R44CA261506-01A1	\$ 19,117,616	Research and Development	\$ 920,364,194	- 5	
CANCER TREATMENT RESEARCH	93.395	PUBLIC HEALTH INSTITUTE		\$ 19.117.616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	RTOG FOUNDATION, INC.	UPENN-NCTN-YR6-11	\$ 19.117.616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	UNIVERSITY OF BUFFALO		\$ 19,117,616	Research and Development	\$ 920,364,194		
- · · · · · · · · · · · · · · · · · · ·				,,		+,,,		
CANCER TREATMENT RESEARCH	93.395	UNIVERSITY OF CALIFORNIA, LOS ANGELES	1670 G WC216	\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	UNIVERSITY OF CHICAGO		\$ 19,117,616	Research and Development	\$ 920,364,194	,	
CANCER TREATMENT RESEARCH	93.395	UNIVERSITY OF NEBRASKA	34-2005-2096-001	\$ 19,117,616	Research and Development	\$ 920,364,194		, , , , , , , , , , , , , , , , , , , ,
CANCER TREATMENT RESEARCH CANCER TREATMENT RESEARCH	93.395 93.395	UNIVERSITY OF NEW MEXICO HEALTH SCIENCES CENTER		\$ 19,117,616 \$ 19,117,616	Research and Development	\$ 920,364,194 \$	· .	
		WASHINGTON UNIVERSITY IN ST. LOUIS	****	,,	Research and Development	+,,,	,	
CANCER TREATMENT RESEARCH	93.395	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0269	\$ 19,117,616	Research and Development	\$ 920,364,194		+,
CANCER TREATMENT RESEARCH	93.395	WISTAR INSTITUTE	24320 04 324	\$ 19,117,616	Research and Development	\$ 920,364,194		
CANCER TREATMENT RESEARCH	93.395	WISTAR INSTITUTE	24926-13-314	\$ 19,117,616	Research and Development	\$ 920,364,194		\$ 180,34
CANCER TREATMENT RESEARCH	93.395	WISTAR INSTITUTE	sub to P01CA114046	\$ 19,117,616	Research and Development	\$ 920,364,194	- :	\$ (16,29
CANCER TREATMENT RESEARCH	93.395			\$ 19,117,616	Research and Development	\$ 920,364,194 \$	1,935,492	\$ 15,361,08
CARDIOVASCULAR DISEASES RESEARCH	93.837	ATTUNE MEDICAL	sub to R44HL158375	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	61695.2007934.669303	\$ 40,461,626	Research and Development	\$ 920,364,194	- :	\$ 20,920
CARDIOVASCULAR DISEASES RESEARCH	93.837	BETH ISRAEL DEACONESS MEDICAL CENTER	01064417	\$ 40,461,626	Research and Development	\$ 920,364,194 9	- 5	\$ 35,170
CARDIOVASCULAR DISEASES RESEARCH	93.837	BOSTON UNIVERSITY	4500003022	\$ 40,461,626	Research and Development	\$ 920,364,194	- 5	\$ 302,71
CARDIOVASCULAR DISEASES RESEARCH	93.837	BRIGHAM AND WOMEN'S HOSPITAL	SUBTO	\$ 40,461,626	Research and Development	\$ 920,364,194	- :	
			1U01HL23336/A5332/A5333					
CARDIOVASCULAR DISEASES RESEARCH	93.837	CARDIOSOLV ABLATION TECHNOLOGIES, INC		\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-0000005	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000659-0822-S1	\$ 40,461,626	Research and Development	\$ 920,364,194	- :	\$ 10,48
CARDIOVASCULAR DISEASES RESEARCH	93.837	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000659-0823-S2	\$ 40,461,626	Research and Development	\$ 920,364,194 \$	- :	\$ 35,99
CARDIOVASCULAR DISEASES RESEARCH	93.837	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002339	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	COLUMBIA UNIVERSITY		\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	COLUMBIA UNIVERSITY	1(GG012810-01)	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	COLUMBIA UNIVERSITY COLUMBIA UNIVERSITY		\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH CARDIOVASCULAR DISEASES RESEARCH	93.837			\$ 40,461,626	Research and Development	1		
		COLUMBIA UNIVERSITY	2(GG017930-01)					
CARDIOVASCULAR DISEASES RESEARCH	93.837	DREXEL UNIVERSITY		\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	DUKE UNIVERSITY	303000404	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	GEORGE WASHINGTON UNIVERSITY	SUB TO U24HL140168	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-E031-4609	\$ 40,461,626	Research and Development	\$ 920,364,194	- :	\$ 41,28
CARDIOVASCULAR DISEASES RESEARCH	93.837	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0255-E641-4609	\$ 40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	INDIANA UNIVERSITY	IN4667766PENN	\$ 40,461,626	Research and Development	\$ 920,364,194		+ 0.,00
CARDIOVASCULAR DISEASES RESEARCH	93.837	MASSACHUSETTS GENERAL HOSPITAL		\$ 40,461,626	Research and Development	\$ 920,364,194		, , , , , , , , , , , , , , , , , , , ,
CARDIOVASCULAR DISEASES RESEARCH CARDIOVASCULAR DISEASES RESEARCH	93.837							+,
		MASSACHUSETTS GENERAL HOSPITAL			Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	MEDICAL COLLEGE OF WISCONSIN	505 10 10211242752	\$ 40,461,626	Research and Development	\$ 920,364,194		+ ====
CARDIOVASCULAR DISEASES RESEARCH	93.837	NORTHWESTERN UNIVERSITY	60058535 UPENN	\$ 40,461,626	Research and Development	\$ 920,364,194		\$ 62,75
	93.837	NORTHWESTERN LINIVERSITY	60060152 PENN	\$ 40,461,626	Research and Development	\$ 920,364,194	- :	\$ 45,27
CARDIOVASCULAR DISEASES RESEARCH	33.037							
CARDIOVASCULAR DISEASES RESEARCH CARDIOVASCULAR DISEASES RESEARCH	93.837	OHIO STATE UNIVERSITY	GR127216 SPC-1000006756	\$ 40,461,626	Research and Development	\$ 920,364,194	- :	\$ 100,40

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
CARDIOVASCULAR DISEASES RESEARCH	93.837	RESEARCH TRIANGLE INSTITUTE	9-312-0217457-66026L \$	40,461,626	Research and Development	\$ 920,364,194		237,289
CARDIOVASCULAR DISEASES RESEARCH	93.837	ROCHESTER INSTITUTE OF TECHNOLOGY	31998-01		Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	STANFORD UNIVERSITY	62473906-137321	40,461,626	Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	THOMAS JEFFERSON UNIVERSITY	080-18007-S36301 \$,,	Research and Development	\$ 920,364,194		,
CARDIOVASCULAR DISEASES RESEARCH	93.837	TULANE UNIVERSITY	TUL-HSC-559478-21/22		Research and Development	\$ 920,364,194		74,469
CARDIOVASCULAR DISEASES RESEARCH	93.837	TULANE UNIVERSITY	TUL-HSC-560896-22/23	,,	Research and Development	\$ 920,364,194		13,702
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF ALABAMA AT BIRMINGHAM	000530812-SC021 \$		Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF BUFFALO	R1337579 \$,,	Research and Development	\$ 920,364,194	* *	,
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF CALIFORNIA, BERKELEY	00011001	40,461,626	Research and Development	\$ 920,364,194		,.
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	12918sc \$,,	Research and Development	\$ 920,364,194	7	00,720
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF COLORADO	1562492	133,541	Research and Development	\$ 920,364,194	7	133,541
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF CONNECTICUT	UCHC7-122008437		Research and Development	\$ 920,364,194	7	
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF FLORIDA	SUB00003130 \$	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	20,778
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF FLORIDA	SUB00003145	, -0,-01,010	Research and Development	\$ 920,364,194		38,20
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF ILLINOIS	097337-17723	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	88,286
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF MICHIGAN	SUBK00012346 \$	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	69,79
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF MINNESOTA	N006187419 \$	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	(3,98)
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5120345	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	2,19
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5124130	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF PITTSBURGH MEDICAL CENTER	AWD00004314 (137168-25A)		Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF ROCHESTER	SUB00000527/GR533468		Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISFASES RESFARCH	93.837	UNIVERSITY OF SOUTH FLORIDA	6143-1210-00-В		Research and Development	\$ 920,364,194		
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF TEXAS AT AUSTIN	UTA18-00758		Research and Development	\$ 920,364,194		
		UNIVERSITY OF TEXAS AT AUSTIN UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN						
CARDIOVASCULAR DISEASES RESEARCH	93.837	ANTONIO	172393/172293	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	278,25
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO 230907	40,461,626	Research and Development	\$ 920,364,194	\$ - \$	110,211
CARDIOVASCULAR DISEASES RESEARCH	93.837	UNIVERSITY OF WASHINGTON	UWSC8520 \$	40,461,626	Research and Development	\$ 920,364,194	\$ 44,500 \$	59,500
CARDIOVASCULAR DISEASES RESEARCH	93.837	YALE UNIVERSITY	GR102136 (CON-80001158)	40.461.626	Research and Development	\$ 920.364.194		
CARDIOVASCULAR DISEASES RESEARCH	93.837			40,461,626	Research and Development	\$ 920,364,194		
CHILD ABUSE AND NEGLECT STATE GRANTS	93.669	Lancaster County Children & Youth	N/A S	34.903	N/A	\$ -	,,	30,782
CHILD ABUSE AND NEGLECT STATE GRANTS	93.669	Pennsylvania Commission on Crime & Delinquency	39715	,	N/A	\$ -	, - ,	4.121
CHILD ABUSE PREVENTION PROGRAM	93.590		4100090571	50,000	N/A	T		.,
CHILD CARE AND DEVELOPMENT BLOCK GRANT	93.575	Pennsylvania Department of Human Services		,	CCDF CLUSTER	\$ - \$ 165.224		
CHILD CARE AND DEVELOPMENT BLOCK GRANT	93.575	PUBLIC HEALTH MANAGEMENT CORPORATION			CCDF CLUSTER CCDF CLUSTER		* *	
		PUBLIC HEALTH MANAGEMENT CORPORATION	8690062336			\$ 165,224		,
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CENTRAL MICHIGAN UNIVERSITY	F63374 S		Research and Development	\$ 920,364,194		,
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200830522		Research and Development	\$ 920,364,194	\$ - \$	
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200880522	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	64,739
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201250522		Research and Development	\$ 920,364,194		70,784
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201340523	-, -,	Research and Development	\$ 920,364,194		,
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201440523		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201860524		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3207930625	18,448,062	Research and Development	\$ 920,364,194		33,837
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000147		Research and Development	\$ 920,364,194		4,02
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000289 \$	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	32,04
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000601 \$		Research and Development	\$ 920,364,194	\$ - \$	14,84
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000713	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	30,73
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001494-0523-XX	18,448,062	Research and Development	\$ 920,364,194	s - s	
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001495-XX	18,448,062	Research and Development	\$ 920,364,194		10,60
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002262	18.448.062	Research and Development	\$ 920.364.194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002377	18,448,062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002377		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	COLUMBIA UNIVERSITY	4(GG011848-01)	18,448,062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	DREXEL UNIVERSITY	900012		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	EMORY UNIVERSITY	A403216	., .,	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	FLORIDA STATE UNIVERSITY	R000003134		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	SUB TO U10HD036801 \$	18,448,062	Research and Development	\$ 920,364,194		
CHILD REALIN AND HOIMAN DEVELOPIVIENT EXTRANSIONAL RESEARCH	93.803	GEORGE WASHINGTON UNIVERSITY			Research and Development	3 920,304,194	, - ,	
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	SUB TO U10HD036801	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	(78,02
			(CMV)MFMU					
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	SUB TO U10HD036801/MFMU TOPS	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	248
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	SUB TO U10HD036801/MFMU40C	18,448,062	Research and Development	\$ 920.364.194	s - s	580
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMORAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	PROSPECT	18,448,062	Research and Development	\$ 920,364,194	, - 5	580
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	IFIT PROSTHETICS	SUB TO 1R42HD107747-01	18,448,062	Research and Development	\$ 920.364.194	\$ 22,641 \$	204,399
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	JOHNS HOPKINS UNIVERSITY	2004123438		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	JOHNS HOPKINS UNIVERSITY	2004123438	18,448,062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	JOHNS HOPKINS UNIVERSITY JOHNS HOPKINS UNIVERSITY	SUB TO R01HD100341	-, -,	Research and Development	\$ 920,364,194	7	,
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	MOSS REHABILITATION RESEARCH INSTITUTE	4934 S	18,448,062	Research and Development	\$ 920,364,194		
	93.865							
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	NORTHWESTERN UNIVERSITY		., .,	Research and Development			
		PENNSYLVANIA STATE UNIVERSITY	UPENNHD083323 \$		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	RECUPERO ROBOTICS LLC	SUB TO R42HD104325		Research and Development	\$ 920,364,194		141,25
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	RESEARCH TRIANGLE INSTITUTE	PFDN CAPITATION FUNDING 9		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	STANFORD UNIVERSITY	62613539-153996		Research and Development	\$ 920,364,194		18,10
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	STATE UNIVERSITY OF NEW YORK	77545-1138238-2		Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	THOMAS JEFFERSON UNIVERSITY	618-B4436-SE4971 S	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	316,04
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	13499sc \$	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	24,91
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	UNIVERSITY OF MICHIGAN	SUBK00015994 S	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	UNIVERSITY OF MICHIGAN	SUBK00018286	18,448,062	Research and Development	\$ 920,364,194	\$ - \$	16,199

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	Number 93,865	Entity	Entity	Total \$ 18.448.062	Name	Total	Sub-Recipients	Expenditures
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	UNIVERSITY OF MISSOURI UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	C00079352-8 5106229	\$ 18,448,062 \$ 18.448.062	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	\$ - :	\$ 136,555 \$ 19,606
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5116605	\$ 18,448,062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL		\$ 18.448.062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMUNAL RESEARCH	93.865	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL UNIVERSITY OF OKLAHOMA		\$ 18,448,062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	VIRGINIA COMMONWEALTH UNIVERSITY		\$ 18.448.062	Research and Development	\$ 920,364,194		\$ 39,65
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMUNAL RESEARCH	93.865	YALE UNIVERSITY		\$ 18,448,062	Research and Development	\$ 920,364,194		
CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	TALE UNIVERSITY		\$ 18,448,062	Research and Development			
CIVICS - COMPONENT A	93.RD	DUKE UNIVERSITY			Research and Development			
CLINICAL AND MOLECULAR DETERMINANTS OF TRANSMISSION OF ESBLS IN THE CO	93.RD	DUKE UNIVERSITY	AU3264U		Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	•	
	93.RD			\$ 24,356,909	Research and Development Research and Development	,		
CLINICAL EVALUATION OF NESTORONE (NES) AND TESTOSTERONE (T) COMBINATIO COMMUNITY SERVICES BLOCK GRANT	93.KD 93.569	UNIVERSITY OF WASHINGTON	UWSC11767	\$ 24,356,909 \$ 76.778	477 CLUSTER	\$ 920,364,194 \$ 76,778		
		CITY OF PHILADELPHIA						+,
COMMUNITY SERVICES BLOCK GRANT	93.569	CITY OF PHILADELPHIA	CSBG	\$ 76,778	477 CLUSTER	\$ 76,778	\$ - :	\$ 9,94
CONSOLIDATED HEALTH CENTERS (COMMUNITY HEALTH CENTERS, MIGRANT HEALTH CENTERS, HEALTH CARE FOR THE	93.224	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	13193sc	\$ 8,987	HEALTH CENTER PROGRAM CLUSTER	\$ 153,673	\$ -:	\$ 8,98
HOMELESS, AND PUBLIC HOUSING PRIMARY CARE)								
CONSULTANT TO THE TOOLBOX PROJECT: LEARNING, EVALUATION AND RESEARCH C	93.RD			\$ 24,356,909	Research and Development	\$ 920,364,194		
CONTINUED ASSESSMENT OF THE EFFICACY OF CHRONIC OPIOID PAIN TREATMENTS	93.RD			\$ 24,356,909	Research and Development	\$ 920,364,194	\$ - :	\$ 328,13
COOPERATIVE AGREEMENTS FOR STATE-BASED COMPREHENSIVE BREAST AND CERVICAL CANCER EARLY DETECTION	93.919	Family Health Council of Central PA	N/A	\$ 72,002	N/A	\$ -	ś - :	\$ 72,00
PROGRAMS		. ,						
COVID-19 - A MULTICENTER, ADAPTIVE, RANDOMIZED BLINDED CONTROLLED TRIAL OF THE SA	93.RD	LEIDOS BIOMEDICAL RESEARCH, INC	LOCIA DINOUS	\$ 24,356,909	Research and Development	\$ 920,364,194	· .	7 313,40
COVID-19 - A MULTICENTER, ADAPTIVE, RANDOMIZED CONTROLLED PLATFORM TRIAL OF THE S	93.RD	BLOODCENTER OF WISCONSIN, INC.	SUB TO 0T2HL156812	\$ 24,356,909	Research and Development	\$ 920,364,194	•	
COVID-19 - AGING RESEARCH	93.866			\$ 82,836,060	Research and Development	\$ 920,364,194	, .	
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	ARIZONA STATE UNIVERSITY		\$ 89,130,796	Research and Development	\$ 920,364,194		
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	300 to 1101 711 143040	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 164,76
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	COLUMBIA UNIVERSITY	-(,	\$ 89,130,796	Research and Development	\$ 920,364,194		,
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	DUKE UNIVERSITY	303000026	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 401,69
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY	A534337	\$ 89,130,796	Research and Development	\$ 920,364,194	\$ - :	\$ 468,14
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY	A539852	\$ 89,130,796	Research and Development	\$ 920,364,194	\$ - :	\$ 166,93
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY	A682009	\$ 89,130,796	Research and Development	\$ 920,364,194	\$ - :	\$ 95,38
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	EMORY UNIVERSITY	A731018	\$ 89,130,796	Research and Development	\$ 920,364,194	\$ - :	
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FOX CHASE CHEMICAL DIVERSITY CENTER	G05-R41AI172464-UP	\$ 89,130,796	Research and Development	\$ 920,364,194	ś - :	\$ 77,44
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FRED HUTCHINSON CANCER CENTER		\$ 89,130,796	Research and Development	\$ 920,364,194		
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	FRED HUTCHINSON CANCER CENTER	0001038427	\$ 89,130,796	Research and Development	\$ 920,364,194	Ś - :	\$ 351.04
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	IOHNS HOPKINS LINIVERSITY	2005285933	\$ 89,130,796	Research and Development	\$ 920,364,194		\$ 90.78
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	MASSACHUSETTS INSTITUTE OF TECHNOLOGY		\$ 89,130,796	Research and Development	\$ 920,364,194	\$ -:	
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	SCRIPPS RESEARCH INSTITUTE		\$ 89,130,796	Research and Development	\$ 920,364,194		
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF COLORADO DENVER	FY21.600.003	\$ 89,130,796	Research and Development	\$ 920,364,194	Š - :	
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL		\$ 89,130,796	Research and Development	\$ 920,364,194	•	
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5125060	\$ 89,130,796	Research and Development	\$ 920,364,194		
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAR INSTITUTE		\$ 89,130,796	Research and Development	\$ 920,364,194		
COVID-19 - ALLERGY, IMMUNOLOGY AND TRANSPLANTATION RESEARCH	93.855	WISTAKINSTITUTE	23330-03-374_0Feiiii	\$ 89,130,796	Research and Development	\$ 920,364,194		
COVID-19 - AT HOME MICROBURBLING SARS-COV-2 ANTIGEN TEST	93.RD	INSTANOSIS, INC.	SUB TO 75A50122C00026	\$ 24,356,909	Research and Development	\$ 920,364,194		\$ 13.00
COVID-19 - BIOMEDICAL RESEARCH AND RESEARCH TRAINING	93.859	INSTANCSIS, INC.	30B 10 73A30122C00020	\$ 45,745,061	Research and Development	\$ 920,364,194		
COVID-19 - BLOOD DISEASES AND RESOURCES RESEARCH	93.839			\$ 14,279,585	Research and Development	\$ 920,364,194		
COVID-19 - BUILDING COVID-19 VACCINE CONFIDENCE AMONG NURSING STUDENTS, NURSES, A	93.RD	AMERICAN ASSOCIATION OF COLLEGES OF NURSING		\$ 24.356.909	Research and Development	\$ 920,364,194		
COVID-19 - CANCER DETECTION AND DIAGNOSIS RESEARCH	93.394	AIVIERICAN ASSOCIATION OF COLLEGES OF NORSING	30B 10 6 N0360E000005-05-01	\$ 15,347,402	Research and Development	\$ 920,364,194		
COVID-19 - CARDIOVASCULAR DISEASES RESEARCH	93.837	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAL	0255-4343-4605	\$ 40,461,626	Research and Development	\$ 920,364,194		\$ (11,38
COVID-19 - CARDIOVASCULAR DISEASES RESEARCH	93.837	TULANE UNIVERSITY	0233 7343 4003	\$ 40,461,626	Research and Development	\$ 920,364,194		
COVID-19 - CARDIOVASCULAR DISEASES RESEARCH	93.837	TULANE UNIVERSITY	TUL-HSC-559479-21/22	\$ 40,461,626	Research and Development		*	
COVID-19 - CARDIOVASCULAR DISEASES RESEARCH COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	SUB TO U10HD036801		Research and Development			
COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH COVID-19 - CHILD HEALTH AND HUMAN DEVELOPMENT EXTRAMURAL RESEARCH	93.865	GEORGE WASHINGTON UNIVERSITY	SUB 10 010HD036801	\$ 18,448,062 \$ 18.448.062				
					Research and Development	\$ 920,364,194		
COVID-19 - DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847			\$ 63,859,364	Research and Development	\$ 920,364,194		
COVID-19 - DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 19,651,307	Research and Development	\$ 920,364,194	•	
COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	TEMPLE UNIVERSITY	269885-UPENN	\$ 56,771,820	Research and Development	\$ 920,364,194	· .	9 3,31
COVID-19 - EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853			\$ 56,771,820	Research and Development	\$ 920,364,194		
COVID-19 - FOOD AND DRUG ADMINISTRATION_RESEARCH	93.103	GEORGE MASON UNIVERSITY	E2062271	\$ 1,273,808	Research and Development	\$ 920,364,194		y
COVID-19 - FOOD AND DRUG ADMINISTRATION_RESEARCH	93.103			\$ 1,273,808	Research and Development	\$ 920,364,194		
COVID-19 - FOOD INSECURITY, NEIGHBORHOOD ENVIRONMENT, AND WEIGHT TRAJECTORIES IN	93.RD	DREXEL UNIVERSITY		\$ 24,356,909	Research and Development	\$ 920,364,194		
COVID-19 - HUMAN GENOME RESEARCH	93.172	JACKSON LABORATORY		\$ 9,536,195	Research and Development	\$ 920,364,194		7 -,
COVID-19 - IMPACT OF LOCAL DIFFERENCES IN VACCINE UPTAKE ON SARS-COV-2 EVOLUTION	93.RD	UNIVERSITY OF WISCONSIN-MADISON	0000002501	\$ 24,356,909	Research and Development	\$ 920,364,194		\$ 67,45
COVID-19 - LUNG DISEASES RESEARCH	93.838	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 29,514,396	Research and Development	\$ 920,364,194		
COVID-19 - LUNG DISEASES RESEARCH	93.838	COLUMBIA UNIVERSITY		\$ 29,514,396	Research and Development	\$ 920,364,194		
COVID-19 - LUNG DISEASES RESEARCH	93.838	GEORGE WASHINGTON UNIVERSITY	SUB TO OT2HL161847	\$ 29,514,396	Research and Development	\$ 920,364,194		
COVID-19 - LUNG DISEASES RESEARCH	93.838	UNIVERSITY OF UTAH	10063508-11-PENN	\$ 29,514,396	Research and Development	\$ 920,364,194	*	+,
COVID-19 - LUNG DISEASES RESEARCH	93.838	WESTAT, INC.	33-312-0217571-66400L	\$ 29,514,396	Research and Development	\$ 920,364,194		
COVID-19 - LUNG DISEASES RESEARCH	93.838			\$ 29,514,396	Research and Development	\$ 920,364,194		
COVID-19 - MEDICAL IMAGING AND DATA CONSORTIUM: RAPID RESPONSE TO COVID-19 PANDEM	93.RD	UNIVERSITY OF CHICAGO	AWD101462-O	\$ 24,356,909	Research and Development	\$ 920,364,194	\$ - :	\$ 84,62
COVID-19 - MEDICAL IMAGING AND DATA RESOURCE CENTER (MIDRC) FOR RAPID RESPONSE TO	93.RD	AMERICAN COLLEGE OF RADIOLOGY IMAGING NETWORK (ACRIN)	1843	\$ 24,356,909	Research and Development	\$ 920,364,194	\$ - :	
COVID-19 - MEDICAL LIBRARY ASSISTANCE	93,879	, which		\$ 1,677,213	Research and Development	\$ 920,364,194	š - :	\$ 2,26
COVID-19 - MEDICAL DISTANCE COVID-19 - MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 43,498,026	Research and Development	\$ 920,364,194	•	
COVID-19 - MENTAL HEALTH RESEARCH GRANTS	93.242	CHEDILING HOSFITAL OF PRICADELPRIA (CHOP)		\$ 43,498,026	Research and Development	\$ 920,364,194		
COVID-19 - MENTAL HEALTH RESEARCH GRANTS COVID-19 - MFMU MATERNAL MORBIDITY AND MORTALITY DURING THE COVID-19 PANDEMIC	93.242 93.RD	GEORGE WASHINGTON UNIVERSITY		\$ 24,356,909	Research and Development	\$ 920,364,194		
COVID-19 - MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	93.KD 93.307	GEORGE WASHINGTON UNIVERSITY	21000	\$ 4,897,212	Research and Development	\$ 920,364,194		
COVID-19 - MINOKITY HEALTH AND HEALTH DISPARITIES RESEARCH COVID-19 - NATIONAL CENTER FOR ADVANCING TRANSLATIONAL SCIENCES	93.307			\$ 4,897,212	Research and Development Research and Development	\$ 920,364,194		
				\$ 13,614,024	Research and Development Research and Development	+,		
					Kesearch and Development	\$ 920,364,194	S - :	\$ 392,920
COVID-19 - NATIONAL ORGANIZATIONS OF STATE AND LOCAL OFFICIALS	93.011							
	93.011 93.361 93.361	VISITING NURSE SERVICE OF NEW YORK	4633_2021_PENN	\$ 8,241,227 \$ 8,241,227	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	\$ -:	,

	Federal	Name of Funder	Identifying Number Assigned By Funder	Federal					
	ALN	Pass-Through	Pass-Through	Program	Cluster	(Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name		Total	Sub-Recipients	Expenditures
COVID-19 - PROTECTING AND IMPROVING HEALTH GLOBALLY: BUILDING AND STRENGTHENING PUBLIC HEALTH IMPACT, SYSTEMS, CAPACITY AND SECURITY	93.318			\$ 580,125	Research and Development		920,364,194		580,125
COVID-19 - RAPID AND ULTRA-SENSITIVE SARS-COV-2 ANTIGEN DETECTION FOR ACUTE INFEC	93.RD			\$ 24,356,909	Research and Development		920,364,194		,
COVID-19 - RESEARCH ON HEALTHCARE COSTS, QUALITY AND OUTCOMES	93.226			\$ 2,531,305	Research and Development		920,364,194		
COVID-19 - RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS COVID-19 - SECONDARY INFECTIONS AND ANTIBIOTIC RESISTANCE IN POST-ACUTE CARE PATI	93.173 93.RD			\$ 7,307,773 \$ 24.356.909	Research and Development		920,364,194		,
COVID-19 - SECONDARY INFECTIONS AND ANTIBIOTIC RESISTANCE IN POST-ACUTE CARE PATT COVID-19 - STRENGTHENING PUBLIC HEALTH SYSTEMS AND SERVICES THROUGH NATIONAL PARTNERSHIPS TO IMPROVE		UNIVERSITY OF VERMONT & STATE AGRICULTURAL		. ,,	Research and Development		920,364,194		324,141
AND PROTECT THE NATION'S HEALTH	93.421	COLLEGE	AWD00000288SUB00000140	\$ 18,296	Research and Development	\$	920,364,194	- \$	18,296
COVID-19 - THE IMPACT OF SARS-COV-2 INFECTION DURING PREGNANCY ON OBSTETRIC AND N	93.RD	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	0258-D383-4609	\$ 24.356.909	Research and Development	Ś	920.364.194	- Ś	(672)
COVID-19 - TRANS-NIH RESEARCH SUPPORT	93.310	UNIVERSITY OF CALIFORNIA, SANTA BARBARA		\$ 12,448,138	Research and Development	\$	920,364,194	- Ś	164,444
COVID-19 - TRANS-NIH RESEARCH SUPPORT	93.310			\$ 12,448,138	Research and Development	\$!	920,364,194	125,192 \$	
COVID-19 - WHOLE-GENOME SEQUENCING TO DEFINE SARS-COV-2 VARIANT POPULATIONS DURIN	93.RD			\$ 24,356,909	Research and Development	\$	920,364,194	- \$	33,749
DEVELOPMENT AND EVALUATION OF A CHLORHEXIDINE GLUCONATE BATHING PROTOC	93.RD				Research and Development		920,364,194	- \$	
DEVELOPMENT OF A PROTOTYPE SOFTWARE FOR AUTOMATED PET/CT INTERPRETATIO	93.RD	QUANTITATIVE RADIOLOGY SOLUTIONS, LLC	SUB TO CA236492	\$ 24,356,909	Research and Development	\$!	920,364,194	- \$	36,261
DHS - RESOURCE & REFERRAL TOOL	93.778	PA Department of Health and Human Services		\$ 416,047	Medicaid CLUSTER	\$	416,047		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	ALBERT EINSTEIN COLLEGE OF MEDICINE	312118	\$ 63,859,364	Research and Development	\$!	920,364,194	- \$	71,257
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	50578.914951.6560	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	2,124
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	BECKMAN RESEARCH INSTITUTE OF THE CITY OF HOPE	61294.2006834.669303	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	79,118
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	BROAD INSTITUTE OF MIT AND HARVARD	5000808-5500001742	\$ 63.859.364	Research and Development	Ś	920.364.194	- \$	102,845
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CASE WESTERN RESERVE UNIVERSITY	RES512857	\$ 63,859,364	Research and Development		920,364,194	- 5	290
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CASE WESTERN RESERVE UNIVERSITY	RES516457		Research and Development		920,364,194	- \$	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CASE WESTERN RESERVE UNIVERSITY	RES600195	\$ 63,859,364	Research and Development		920,364,194	- \$	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	22107-GRT-00000441	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	54,296
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200040820	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	98,735
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200370521 I PO# 962245 - RSUB	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	31,619
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200400817	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	(98,877
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200950823-XX	\$ 63,859,364	Research and Development	\$!	920,364,194	- \$	11,122
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201760420		Research and Development		920,364,194		21,598
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3209810625		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3210191223		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 63,859,364	Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES. DIGESTIVE. AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847 93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000382	\$ 63,859,364 \$ 63,859,364	Research and Development Research and Development		920,364,194 §		33,033
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP) CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000596 GRT-00000685		Research and Development		920,364,194		(0)-00
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 63,859,364	Research and Development		920,364,194	, ,	. ,
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001405	, ,	Research and Development		920.364.194		180.124
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001565	\$ 63,859,364	Research and Development	Ś	920.364.194	- s	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002496	\$ 63,859,364	Research and Development	\$	920,364,194	- \$	269,349
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	COLUMBIA UNIVERSITY	1(GGG011642-03)	\$ 63,859,364	Research and Development	\$!	920,364,194	- \$	42,665
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	COLUMBIA UNIVERSITY	2(GG015836-01)	,	Research and Development		920,364,194	, ,	7,169
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	CORNELL UNIVERSITY	203486	\$ 63,859,364	Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	DUKE UNIVERSITY	A032135		Research and Development		920,364,194	, ,	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	DUKE UNIVERSITY	sub to R01DK118431-04		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847 93.847	EMORY UNIVERSITY	1074372	\$ 63,859,364 \$ 63.859.364	Research and Development Research and Development		920,364,194 §	, ,	2,709
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	GEORGE WASHINGTON UNIVERSITY HARVARD PILGRIM HEALTH CARE	20-M122 PH000668A		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	HARVARD UNIVERSITY		\$ 63,859,364	Research and Development		920,364,194	, ,	,
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	INDIANA UNIVERSITY		\$ 63,859,364	Research and Development		920,364,194		5,719
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	INDIANA UNIVERSITY		\$ 63,859,364	Research and Development		920,364,194	- s	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	JAEB CENTER FOR HEALTH RESEARCH	SUB TO 1R01DK122603		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	JAEB CENTER FOR HEALTH RESEARCH		\$ 63,859,364	Research and Development		920,364,194		,
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	JOHNS HOPKINS UNIVERSITY	2004016695		Research and Development		920,364,194		40,015
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	JOHNS HOPKINS UNIVERSITY	2005752237		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	JOHNS HOPKINS UNIVERSITY	2005856488		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	JOSLIN DIABETES CENTER, INC		\$ 63,859,364	Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847 93.847	MASSACHUSETTS GENERAL HOSPITAL MD ANDERSON CANCER CENTER	233274 3001370497	\$ 63,859,364 \$ 63,859,364	Research and Development Research and Development		920,364,194 § 920,364,194 §		,
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	MEDICAL COLLEGE OF WISCONSIN	SUB TO K01DK121866		Research and Development		920,364,194 §		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	NEW YORK UNIVERSITY GROSSMAN SCHOOL OF		\$ 63,859,364	Research and Development		920,364,194		
	93.847	MEDICINE NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND		\$ 63.859.364	Research and Development		920.364.194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	EDUCATION PENNSYLVANIA STATE UNIVERSITY		\$ 63,859,364 \$ 63.859,364	Research and Development Research and Development		920,364,194 \$	•	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMUNIAL RESEARCH	93.847	SAINT LOUIS UNIVERSITY	eRS #21446-44249		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	SCINTILLON INSTITUTE		\$ 63,859,364	Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	THOMAS JEFFERSON UNIVERSITY	080-30000-\$09203		Research and Development		920,364,194		,
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	TULANE UNIVERSITY	TUL-HSC-556923-18/19	\$ 63,859,364	Research and Development	\$!	920,364,194	- \$	57,278
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	10790sc	\$ 63,859,364	Research and Development		920,364,194	- \$	774
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	9644sc		Research and Development		920,364,194		.,
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF COLORADO	FY23.1035.006		Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF FLORIDA		\$ 63,859,364	Research and Development		920,364,194	- \$	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF ILLINOIS	15570	\$ 63,859,364	Research and Development		920,364,194	- \$	29,241
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847 93.847	UNIVERSITY OF ILLINOIS AT CHICAGO	16587-00 17483	\$ 63,859,364 \$ 63,859,364	Research and Development		920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF ILLINOIS AT CHICAGO LINIVERSITY OF ILLINOIS AT CHICAGO		\$ 63,859,364 \$ 63,859,364	Research and Development Research and Development		920,364,194 §	- \$	
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF ILLINOIS AT CHICAGO UNIVERSITY OF ILLINOIS AT CHICAGO	17647	\$ 63,859,364	Research and Development		920,364,194		22,700 973
		STATE OF TELLINOIS AT CHICAGO	21103	\$ 63,859,364	Research and Development		920,364,194		39.041

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES. DIGESTIVE. AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847 93.847	UNIVERSITY OF MIAMI		\$ 63,859,364 \$ 63,859,364	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF MIAMI UNIVERSITY OF MICHIGAN	SPC-001391 SUBK00010054	\$ 63,859,364 \$ 63,859,364	Research and Development	\$ 920,364,194 \$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF MICHIGAN		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF MICHIGAN		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF MICHIGAN		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF MINNESOTA		\$ 63,859,364	Research and Development	\$ 920,364,194		12.12
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5120534	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	5127852	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF PITTSBURGH	0062023(131994-1)	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF PITTSBURGH		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF SOUTHERN CALIFORNIA		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	GMO220602	\$ 63,859,364	Research and Development	\$ 920,364,194	s - s	27.47
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF UTAH	10033041 30 01 14	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	UNIVERSITY OF WASHINGTON	UWSC14196	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	VANDERBILT UNIVERSITY	VOINICOIDS,	\$ 63,859,364	Research and Development	\$ 920,364,194		69,25
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	VANDERBILT UNIVERSITY MEDICAL CENTER		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	WASHINGTON UNIVERSITY IN ST. LOUIS		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-21-140	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0064	\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847	WASHINGTON UNIVERSITY IN ST. LOUIS		\$ 63,859,364	Research and Development	\$ 920,364,194		
DIABETES, DIGESTIVE, AND KIDNEY DISEASES EXTRAMURAL RESEARCH	93.847			\$ 63,859,364	Research and Development	\$ 920,364,194		
DIETARY SUPPLEMENT RESEARCH PROGRAM	93.321	UNIVERSITY OF ARIZONA	626464	\$ 48,815	Research and Development	\$ 920,364,194		48,81
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 10,437,390	Research and Development	\$ 920,364,194		
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	INDIANA UNIVERSITY		\$ 10,437,390	Research and Development	\$ 920,364,194		
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	JOHNS HOPKINS UNIVERSITY	2005729550	\$ 10,437,390	Research and Development	\$ 920,364,194		
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	JOHNS HOPKINS UNIVERSITY	2005741661	\$ 10,437,390	Research and Development	\$ 920,364,194		
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	NEW YORK MEDICAL COLLEGE	124020	\$ 10,437,390	Research and Development	\$ 920,364,194		16,86
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	UNIVERSITY OF MIAMI		\$ 10,437,390	Research and Development	\$ 920,364,194		,
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286	VELLUM BIOSCIENCES LLC	SUB TO 1R41EB034141-01	\$ 10,437,390	Research and Development	\$ 920,364,194		
DISCOVERY AND APPLIED RESEARCH FOR TECHNOLOGICAL INNOVATIONS TO IMPROVE HUMAN HEALTH	93.286			\$ 10,437,390	Research and Development	\$ 920,364,194		
DRCR RETINA NETWORK - PROTOCOL AF	93.RD	JAEB CENTER FOR HEALTH RESEARCH	EY014231 protocol AF	\$ 24,356,909	Research and Development	\$ 920,364,194		86,54
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	COLUMBIA UNIVERSITY	(\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	CORNELL UNIVERSITY	183469-2	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	CORNELL UNIVERSITY	222892-2	\$ 19,651,307	Research and Development	\$ 920,364,194		,
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	EMORY UNIVERSITY	A305847	\$ 19,651,307	Research and Development	\$ 920,364,194		,
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279 93.279	EMORY UNIVERSITY		\$ 19,651,307	Research and Development	\$ 920,364,194		,
		GEISINGER HEALTH SYSTEM	626510UP01	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	GENE CENTRIX, INC.	19-A0-00- 1003202	\$ 19,651,307	Research and Development	\$ 920,364,194	\$ - \$	
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	LONG ISLAND UNIVERSITY	31168	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279 93.279	NEW YORK UNIVERSITY		\$ 19,651,307	Research and Development	\$ 920,364,194		
		TEMPLE UNIVERSITY	268298-UPENN	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279 93.279	TEMPLE UNIVERSITY	269406-UP	\$ 19,651,307	Research and Development	\$ 920,364,194 \$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	UNIVERSITY OF CONNECTICUT	420072	\$ 19,651,307 \$ 19,651,307	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
		UNIVERSITY OF FLORIDA						
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279 93.279	UNIVERSITY OF MICHIGAN	SUBK00011012	\$ 19,651,307	Research and Development	\$ 920,364,194		
		UNIVERSITY OF PITTSBURGH		\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279 93.279	UNIVERSITY OF PITTSBURGH	AWD00006300 (138503-15)	\$ 19,651,307 \$ 19,651,307	Research and Development	\$ 920,364,194		4,1
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS		UNIVERSITY OF ROCHESTER			Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279 93.279	UNIVERSITY OF TEXAS AT SAN ANTONIO	1000004419	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-23-0055	\$ 19,651,307 \$ 19,651,307	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	WEILL CORNELL MEDICAL COLLEGE WEILL CORNELL MEDICAL COLLEGE	222459-10 222480-1	\$ 19,651,307	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		15,09 180.16
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	WEILL CORNELL MEDICAL COLLEGE WEILL CORNELL MEDICAL COLLEGE	222480-1 228309-3	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS ORUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	WEILL CORNELL MEDICAL COLLEGE WEILL CORNELL MEDICAL COLLEGE	228309-3 P30DA040500	\$ 19,651,307	Research and Development	\$ 920,364,194 \$ 920.364.194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	WEILL CORNELL MEDICAL COLLEGE WISTAR INSTITUTE	P30DA040500 25621-02-324	\$ 19,651,307	Research and Development	\$ 920,364,194		5 364,7
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	WISTAR INSTITUTE WISTAR INSTITUTE		\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	YALE UNIVERSITY	25631-02-324 CON 90003030 (CR111957)	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	YALE UNIVERSITY YALE UNIVERSITY	CON-80002920 (GR111857) CON-80003789 (GR117266)	\$ 19,651,307	Research and Development	\$ 920,364,194		
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	YALE UNIVERSITY YALE UNIVERSITY	GR109740 (CON-80002398)	\$ 19,651,307	Research and Development	\$ 920,364,194		415,2
DRUG ABUSE AND ADDICTION RESEARCH PROGRAMS	93.279	TALE UNIVERSITY		\$ 19,651,307	Research and Development	\$ 920,364,194		
FNDING THE HIV EPIDEMIC: A PLAN FOR AMERICA	93.686	City of Philadelphia (Dept Public Health)	2120559-02	\$ 19,031,307	N/A	\$ 920,304,194		5 17,258,80
ENDING THE HIV EPIDEMIC: A PLAN FOR AMERICA	93.686	City of Philadelphia (Dept Public Health)	2120559-02	\$ 360,982	N/A	Š	5 - 5	
ENHANCING TREG THERAPEUTIC FEFICACY IN GVHD	93.RD	UNIVERSITY OF MINNESOTA	N009559104	\$ 24.356.909	Research and Development	\$ 920,364,194		10,67
ENVIRONMENTAL HEALTH	93.113	BROWN UNIVERSITY		\$ 5.387.235	Research and Development	\$ 920,364,194		
ENVIRONMENTAL HEALTH	93.113	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 5,387,235	Research and Development	\$ 920,364,194		
ENVIRONMENTAL HEALTH	93.113	JOHNS HOPKINS UNIVERSITY		\$ 5,387,235	Research and Development	\$ 920,364,194		
ENVIRONMENTAL HEALTH	93.113	RUTGERS UNIVERSITY	1398	\$ 5,387,235	Research and Development	\$ 920,364,194		111,65
ENVIRONMENTAL HEALTH	93.113	RUTGERS UNIVERSITY RUTGERS UNIVERSITY		\$ 5,387,235	Research and Development	\$ 920,364,194		
ENVIRONMENTAL HEALTH	93.113	UNIVERSITY OF CINCINNATI	014646-00002	\$ 5,387,235	Research and Development	\$ 920,364,194		
NVIRONMENTAL HEALTH	93.113	UNIVERSIT OF CHICHINIATI	U14040-UUUUZ	\$ 5,387,235	Research and Development	\$ 920,364,194		
INVIRONMENTAL HEALTH VIDENCE-BASED PRACTICE CENTERS - AHRO EPC VI IDIO CONTRACT	93.113 93.RD	ECRI	SUB TO 75Q80120D00002	\$ 5,387,235	Research and Development	\$ 920,364,194		5,156,3
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.KD 93.853	ALBERT EINSTEIN HEALTHCARE NETWORK	4965UPenn	\$ 56,771,820	Research and Development	\$ 920,364,194		
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853				Research and Development Research and Development	\$ 920,364,194		
	93.853	ASTROCYTE PHARMACEUTICALS, INC. AXONOVA MEDICAL, LLC	SUB TO 1R41NS093756 SUB TO R43-NS125892	\$ 56,771,820 \$ 56,771,820	Research and Development Research and Development	\$ 920,364,194		
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	AXONOVA MEDICAL, LLC AXONOVA MEDICAL, LLC	SUB TO R44NS108869	\$ 56,771,820	Research and Development	\$ 920,364,194		

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal	Charter	Clare to a	Donalds day	5 do not
Federal Awardina Agency/Program Title	ALN Number	Pass-Through Entity	Pass-Through Entity	Program	Cluster	Cluster	Provided to	Federal
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194	Sub-Recibients	17,279
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194		211,194
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194		(10,531
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201870620	\$ 56,771,820	Research and Development	\$ 920,364,194		36,582
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3202030623-XX	\$ 56,771,820	Research and Development	\$ 920,364,194		102,732
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194		97,853
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194	* *	113,865
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194	, ,	116,175
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820	Research and Development	\$ 920,364,194		22,967
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853 93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002351	\$ 56,771,820 \$ 56,771,820	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		72,470
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 56,771,820 \$ 56,771,820	Research and Development	\$ 920,364,194		4,447
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER CLEVELAND CLINIC	400868 / OS00000655 1428-SUB	\$ 56,771,820	Research and Development	\$ 920,364,194	5 - 5	2,868 160.959
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CLEVELAND CLINIC	CCF22864256	\$ 56,771,820	Research and Development	\$ 920,364,194		36,054
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	CLEVELAND CLINIC FOUNDATION		\$ 56,771,820	Research and Development	\$ 920,364,194		(14.501
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	COLUMBIA UNIVERSITY	4(GG012911-04)	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	15,753
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	DUKE UNIVERSITY	A033658	\$ 56,771,820	Research and Development	\$ 920,364,194		315,526
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	DUQUESNE UNIVERSITY	G2300028	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	14,955
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	EMORY UNIVERSITY	A748940	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	119,059
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	HARVARD MEDICAL SCHOOL	150610.5118435.0002	\$ 56,771,820	Research and Development	\$ 920,364,194		37,084
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	JOHNS HOPKINS UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194		324,932
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	JOHNS HOPKINS UNIVERSITY	2005680182	\$ 56,771,820	Research and Development	\$ 920,364,194		86,200
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MASSACHUSETTS GENERAL HOSPITAL		\$ 56,771,820	Research and Development	\$ 920,364,194		170,053
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MASSACHUSETTS GENERAL HOSPITAL	236574	\$ 56,771,820	Research and Development	\$ 920,364,194		122,539
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MASSACHUSETTS GENERAL HOSPITAL	238744	\$ 56,771,820	Research and Development	\$ 920,364,194		109,250
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MASSACHUSETTS GENERAL HOSPITAL	SUB TO OT2NS122680	\$ 56,771,820	Research and Development	\$ 920,364,194		13,057
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MASSACHUSETTS GENERAL HOSPITAL		\$ 56,771,820	Research and Development	\$ 920,364,194		16,190
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MAYO CLINIC JACKSONVILLE	SUB TO 5-U01NS080168-02	\$ 56,771,820	Research and Development	\$ 920,364,194		5,469
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MAYO CLINIC JACKSONVILLE		\$ 56,771,820	Research and Development	\$ 920,364,194		(1,104
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MAYO CLINIC ROCHESTER	THE-214838-04	\$ 56,771,820	Research and Development	\$ 920,364,194		(22,638
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853 93.853	MICHIGAN STATE UNIVERSITY NEW YORK UNIVERSITY GROSSMAN SCHOOL OF	11020707701	\$ 56,771,820 \$ 56,771,820	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	, ,	(1,775
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	MEDICINE NORTHWESTERN UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194	*	21,862
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	OHIO STATE UNIVERSITY	SPC-1000011315 GR129656	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	313,946
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	PENNSYLVANIA STATE UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194		57,377
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	RUSH UNIVERSITY	20121005-Sub06	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	49,276
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	SECOND SIGHT MEDICAL PRODUCTS, INC.	sub to 5UH3NS103442-02	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	82,530
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	STANFORD UNIVERSITY	62996534-193654	\$ 56,771,820	Research and Development	\$ 920,364,194		1,175
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	THOMAS JEFFERSON UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194	* *	31,393
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	TUFTS MEDICAL CENTER	5017157-SERV	\$ 56,771,820	Research and Development	\$ 920,364,194		48,358
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853 93.853	UNIVERSITY OF ALABAMA AT BIRMINGHAM	000510297-006	\$ 56,771,820	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		16,016
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF ALABAMA AT BIRMINGHAM UNIVERSITY OF CALIFORNIA, DAVIS	000523825-SC001 A21-1324-S015	\$ 56,771,820 \$ 56,771,820	Research and Development	\$ 920,364,194		13,552 153,475
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CALIFORNIA, DAVIS UNIVERSITY OF CALIFORNIA, LOS ANGELES	A21-1324-S015 2000 G VK 398	\$ 56,771,820	Research and Development	\$ 920,364,194		153,47
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CALIFORNIA, LOS ANGELES UNIVERSITY OF CALIFORNIA, LOS ANGELES		\$ 56,771,820	Research and Development	\$ 920,364,194		15,884
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CALIFORNIA, LOS ANGELES	2301 G WE215	\$ 56,771,820	Research and Development	\$ 920,364,194		92,50
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CINCINNATI		\$ 56,771,820	Research and Development	\$ 920,364,194		47.44
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CINCINNATI		\$ 56,771,820	Research and Development	\$ 920,364,194		5,22
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CINCINNATI		\$ 56,771,820	Research and Development	\$ 920,364,194		22.51
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CINCINNATI	012043-135731	\$ 56,771,820	Research and Development	\$ 920,364,194		24,609
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF CINCINNATI		\$ 56,771,820	Research and Development	\$ 920,364,194		4,14
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF COLORADO DENVER	FY19.996.001	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	5,92
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF IOWA		\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	158,588
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF MARYLAND	1802532 Request: 4768	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	93,007
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF MELBOURNE	TP 836688-UPenn	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	4,68
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF MIAMI	spc-00091	\$ 56,771,820	Research and Development	\$ 920,364,194	\$ - \$	10,716
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF MIAMI	51 C 002452	\$ 56,771,820	Research and Development	\$ 920,364,194	7	113,415
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF MICHIGAN	SUBK00007465	\$ 56,771,820	Research and Development	\$ 920,364,194	, ,	197,94
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF MICHIGAN	3051100003030	\$ 56,771,820	Research and Development	\$ 920,364,194	7	48,02
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF NEBRASKA	34-5250-2030-001	\$ 56,771,820	Research and Development	\$ 920,364,194		39,868
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF NEBRASKA	34 3303 E200 00E	\$ 56,771,820	Research and Development	\$ 920,364,194		449,09
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF PITTSBURGH		\$ 56,771,820	Research and Development	\$ 920,364,194	, ,	5:
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF QUEENSLAND	MWIZOIJOOZJOJ	\$ 56,771,820	Research and Development	\$ 920,364,194	, ,	2,40
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853 93.853	UNIVERSITY OF ROCHESTER UNIVERSITY OF SOUTHERN CALIFORNIA		\$ 56,771,820 \$ 56,771,820	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194	, ,	94,85! 16,78!
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER		\$ 56,771,820	Research and Development	\$ 920,364,194		33,63
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	VANDERBILT UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194		96,94
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-22-0340	\$ 56,771,820	Research and Development	\$ 920,364,194		11,740
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	WASHINGTON UNIVERSITY IN ST. LOUIS		\$ 56,771,820	Research and Development	\$ 920,364,194		81,040
	93.853	WAYNE STATE UNIVERSITY	WSU21088	\$ 56,771,820	Research and Development	\$ 920,364,194		165,90
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS		WEILL CORNELL MEDICAL COLLEGE	224403	\$ 56,771,820	Research and Development	\$ 920,364,194		14,82
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853						s - s	20,66
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853	YALE UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194		
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS	93.853 93.853	YALE UNIVERSITY		\$ 56,771,820	Research and Development	\$ 920,364,194 \$ 920,364,194		51,131,089
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL NEUROLOGICAL DISORDERS EXTRAMURAL PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS FAMILY PLANNING_SERVICES	93.853 93.853 93.217	YALE UNIVERSITY Family Health Council of Central PA	FPHPA036160	\$ 56,771,820 \$ 72,000	Research and Development N/A	\$ 920,364,194 \$ -	\$ 8,126,296 \$ \$ - \$	51,131,089 72,000
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS FAMILY PLANNING, SERVICES FAMILY SMOKING PREVENTION AND TOBACCO CONTROL ACT REGULATORY RESEARCH	93.853 93.853 93.217 93.077	YALE UNIVERSITY Family Health Council of Central PA RUTGERS UNIVERSITY	FPHPA036160 SUB00002392	\$ 56,771,820 \$ 72,000 \$ 5,987,081	Research and Development N/A Research and Development	\$ 920,364,194 \$ - \$ 920,364,194	\$ 8,126,296 \$ \$ - \$ \$ - \$	51,131,089 72,000 251,432
EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL RESEARCH PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS EXTRAMURAL NEUROLOGICAL DISORDERS EXTRAMURAL PROGRAMS IN THE NEUROSCIENCES AND NEUROLOGICAL DISORDERS FAMILY PLANNING_SERVICES	93.853 93.853 93.217	YALE UNIVERSITY Family Health Council of Central PA	FPHPA036160 SUB00002392 UNR-22-39	\$ 56,771,820 \$ 72,000	Research and Development N/A	\$ 920,364,194 \$ -	\$ 8,126,296 \$ \$ - \$ \$ - \$ \$ - \$	51,131,089 72,000 251,432 174,219 60,678

	Federal ALN	Name of Funder Pass-Through	Identifying Number Assigned By Funder Pass-Through	Federal Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Evnenditures
OOD AND DRUG ADMINISTRATION RESEARCH	93.103	BRIGHAM AND WOMEN'S HOSPITAL	124939	5 1.273.808	Research and Development	\$ 920.364.194	Sub-Recibients	\$ 7.2
OOD AND DRUG ADMINISTRATION RESEARCH	93.103	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	FP23610 SUB01 01	5 1,273,808	Research and Development	\$ 920,364,194		5 6.3
OOD AND DRUG ADMINISTRATION RESEARCH	93.103	UNIVERSITY OF PITTSBURGH	AWD00002855 (135105-3)			\$ 920,364,194	, ,	,.
OOD AND DRUG ADMINISTRATION_RESEARCH	93.103	ONIVERSITI OF FITTSBORGIT	AWD00002833 (133103-3)	5 1,273,808	Research and Development	\$ 920,364,194		
Y23 SAMHSA-PERC FEP	93.U13	CITY OF PHILADELPHIA	2120266		N/A	\$ 520,504,254	\$ 233,733 \$	
GRANTS FOR PRIMARY CARE TRAINING AND ENHANCEMENT	93.884	CITI OF PHICADELPHIA	2120200	\$ 848.183	Research and Development	\$ 920,364,194		\$ 848.1
GRANTS TO PROVIDE OUTPATIENT EARLY INTERVENTION SERVICES WITH RESPECT TO HIV DISEASE	93.918	City of Philadelphia (Dept Public Health)	2220192-01		N/A	\$ 520,504,154		
				,	N/A N/A	*	7 7	, ,,,,
GRANTS TO PROVIDE OUTPATIENT EARLY INTERVENTION SERVICES WITH RESPECT TO HIV DISEASE	93.918	DREXEL UNIVERSITY		\$ 105,301		\$ -		
HEALTH PROFESSIONS STUDENT LOANS, INCLUDING PRIMARY CARE LOANS/LOANS FOR DISADVANTAGED STUDENTS	93.342			17,374,886	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666	\$ - \$	\$ 2,722,0
IEALTH SYSTEMS STRENGTHENING AND HIV/AIDS PREVENTION, CARE AND TREATMENT UNDER THE PRESIDENT'S MERGENCY PLAN FOR AIDS RELIEF	93.266	UNIVERSITY OF BOTSWANA	555958		Research and Development	\$ 920,364,194	s - s	\$ (1,7
IIV EMERGENCY RELIEF PROJECT GRANTS	93.914	CITY OF PHILADELPHIA	2120588-01	1,365,096	N/A	\$ -	\$ - \$	\$ 208,3
HV EMERGENCY RELIEF PROJECT GRANTS	93.914	CITY OF PHILADELPHIA	2120588-02	1,365,096	N/A	\$ -	s - s	\$ 89,0
IIV EMERGENCY RELIEF PROJECT GRANTS	93.914	City of Philadelphia (Dept Public Health)	2120575-01	1,365,096	N/A	\$ -	\$ - \$	\$ 30,7
IV EMERGENCY RELIEF PROJECT GRANTS	93.914	City of Philadelphia (Dept Public Health)	2120578-01	1,365,096	N/A	\$ -	5 - 5	\$ 407,
IIV EMERGENCY RELIEF PROJECT GRANTS	93.914	City of Philadelphia (Dept Public Health)	2120578-02	1,365,096	N/A	\$ -		
IV EMERGENCY RELIEF PROJECT GRANTS	93.914	City of Philadelphia (Dept Public Health)	2120589-01		N/A	\$ -		
IV EMERGENCY RELIEF PROJECT GRANTS	93.914	City of Philadelphia (Dept Public Health)	2120589-02		N/A	· .	š - Š	
IV PREVENTION ACTIVITIES HEALTH DEPARTMENT BASED	93.940			\$ 282,557	N/A	\$ -		\$ 30,
	93.940	City of Philadelphia (Dept Public Health)				\$ -		
HIV PREVENTION ACTIVITIES_HEALTH DEPARTMENT BASED		City of Philadelphia (Dept Public Health)			N/A N/A			
IIV PREVENTION ACTIVITIES_HEALTH DEPARTMENT BASED	93.940	City of Philadelphia (Dept Public Health)	2220528-00	\$ 282,557		ş -	\$ - \$	
IIV PREVENTION ACTIVITIES_HEALTH DEPARTMENT BASED	93.940	City of Philadelphia (Dept Public Health)	2220528-01	\$ 282,557	N/A	\$ -	s - s	\$ 36
IIV PREVENTION AND CARE PROJECT: INTERSECTIONAL STIGMA REDUCTION INTER	93.RD	UNIVERSITY OF PITTSBURGH	AWD00005202 (418594-1)			\$ 920,364,194		
IPV POINT OF CARE MOLECULAR DIAGNOSTICS FOR LMICS	93.RD	PHOENIX BIOSCIENCE, INC.	SUB TO 75N91022C00058		Research and Development	\$ 920,364,194		\$ 61
UMAN GENOME RESEARCH	93.172	CASE WESTERN RESERVE UNIVERSITY	RES516307	9,536,195	Research and Development	\$ 920,364,194	\$ - \$	\$ 25
IUMAN GENOME RESEARCH	93.172	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001464	9,536,195	Research and Development	\$ 920,364,194	s - s	
HUMAN GENOME RESEARCH	93.172	COLUMBIA UNIVERSITY	1(GG018297-02)	9,536,195	Research and Development	\$ 920,364,194	s - s	\$ 240
UMAN GENOME RESEARCH	93.172	GEISINGER HEALTH SYSTEM	646017UP		Research and Development	\$ 920,364,194	S - S	
UMAN GENOME RESEARCH	93.172	JACKSON LABORATORY	210368-0224-14			\$ 920,364,194		
UMAN GENOME RESEARCH	93.172	NEW YORK UNIVERSITY GROSSMAN SCHOOL OF	22-A0-00-1008769		•	\$ 920,364,194		
UMAN GENOME RESEARCH	93.172	MEDICINE STANFORD UNIVERSITY	R01 HG010476 62166731-137013	9,536,195	Research and Development	\$ 920,364,194	s - s	\$ 61,
UMAN GENOME RESEARCH	93.172			9.536.195		\$ 920.364.194		
		UNIVERSITY OF CHICAGO	AWD102193 (SUB00000515)		Research and Development			
UMAN GENOME RESEARCH	93.172	UNIVERSITY OF COLORADO	FY22.1124.004	9,536,195	Research and Development	\$ 920,364,194		\$ 176
UMAN GENOME RESEARCH	93.172					\$ 920,364,194		\$ 8,820
HYPERTROPHIC CARDIOMYOPATHY: UNDERSTANDING THE HETEROGENEITY OF DISEAS	93.RD	BRIGHAM AND WOMEN'S HOSPITAL	2020A015252		Research and Development	\$ 920,364,194		\$ 94
NHALATION TOXICOLOGY OF CHLORINE GAS-ON-A-CHIP	93.RD			24,356,909	Research and Development	\$ 920,364,194	\$ 152,958 \$	\$ 1,686
NJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY BASED PROGRAMS NJURY PREVENTION AND CONTROL RESEARCH AND STATE AND COMMUNITY BASED PROGRAMS	93.136 93.136	UNIVERSITY OF MICHIGAN	SUBK00013120			\$ 920,364,194 \$ 920,364,194		\$ 165, \$ 2,124
NNOVATIVE STATE AND LOCAL PUBLIC HEALTH STRATEGIES TO PREVENT AND MANAGE DIABETES AND HEART DISEASE	93.435	CITY OF PHILADELPHIA	2020657			\$ 920,364,194		
NSTRUCTOR LFD TRAINING ON PHARMACOFPIDEMIOLOGY	93.RD			\$ 24.356.909	Research and Development	\$ 920.364.194		\$ 167.0
NTEGRATED INFORMATICS RESOURCES FOR EUKARYOTIC MICROBIAL PATHOGENS AN	93.RD			,,	Research and Development	\$ 920,364,194	, ,	, 10,,
NTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.989	COLUMBIA UNIVERSITY	1(GG018305-01)	\$ 24,356,909 \$ 475,216		\$ 920,364,194	-,,- +	
			1(00010303 01)	,		+,	, ,	, ,
NTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.989	NEW YORK UNIVERSITY		\$ 475,216		\$ 920,364,194		
NTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.989	RESEARCH FOUNDATION FOR MENTAL HYGIENE, INC.	149265	,	nescuren una bevelopment	\$ 920,364,194	, ,	\$ 12
NTERNATIONAL RESEARCH AND RESEARCH TRAINING	93.989			\$ 475,216		\$ 920,364,194	\$ 74,798 \$	
PA ASSIGNMENT AGREEMENT	93.U02			39,874	N/A	\$ -	\$ - \$	\$ 39
UNG DISEASES RESEARCH	93.838	BIOSPUTNIK LLC	SUB TO 1R41HL156767 - 01A1	29,514,396	Research and Development	\$ 920,364,194	\$ - \$	\$ 50
UNG DISEASES RESEARCH	93.838	BOSTON UNIVERSITY	4500003055	29,514,396	Research and Development	\$ 920,364,194	5 - 5	\$ 66
UNG DISEASES RESEARCH	93.838	BRIGHAM AND WOMEN'S HOSPITAL	122805	29,514,396		\$ 920,364,194	\$ - \$	
ING DISEASES RESEARCH	93.838	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3200850618			\$ 920,364,194		
UNG DISEASES RESEARCH	93.838	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201040419			\$ 920,364,194		
JNG DISEASES RESEARCH	93.838	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000383		Research and Development	\$ 920,364,194		5 18
UNG DISEASES RESEARCH	93.838					\$ 920,364,194		
	93.838	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)						
UNG DISEASES RESEARCH		CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001474			\$ 920,364,194		
UNG DISEASES RESEARCH	93.838	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00001520	29,514,396	Research and Development	\$ 920,364,194		
ING DISEASES RESEARCH	93.838	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	137990			\$ 920,364,194		
ING DISEASES RESEARCH	93.838	CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER	OS00000426/311013	29,514,396		\$ 920,364,194		\$ 1
NG DISEASES RESEARCH	93.838	DUKE UNIVERSITY	303001091		Research and Development	\$ 920,364,194		\$ 3
JNG DISEASES RESEARCH	93.838	DUKE UNIVERSITY	303001243	29,514,396	Research and Development	\$ 920,364,194	\$ - \$	\$ 33
JNG DISEASES RESEARCH	93.838	LIGNAMED	Sub to R44HL140680	29,514,396	Research and Development	\$ 920,364,194	\$ - \$	\$ 6
JNG DISEASES RESEARCH	93.838	PEROXITECH, LLC	SUB TO R41HL164161	29,514,396	Research and Development	\$ 920,364,194	\$ - \$	\$ 17
ING DISEASES RESEARCH	93.838	THOMAS JEFFERSON UNIVERSITY	080-18007-S33801			\$ 920,364,194		
NG DISEASES RESEARCH	93.838	UNIVERSITY OF CALIFORNIA, DAVIS	A21-2099-S001	29,514,396		\$ 920,364,194		
NG DISEASES RESEARCH	93.838	UNIVERSITY OF CALIFORNIA, IRVINE	2023-1915			\$ 920,364,194		
NG DISEASES RESEARCH	93.838	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	13732sc	29,514,396		\$ 920,364,194		
NG DISEASES RESEARCH	93.838	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	14205sc		•	\$ 920,364,194		
NG DISEASES RESEARCH	93.838	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	FY22.576.002		·			
NG DISEASES RESEARCH							s - s	
	93.838	UNIVERSITY OF FLORIDA	SUB00002761	29,514,396	Research and Development	\$ 920,364,194	- 9	
NG DISEASES RESEARCH	93.838	UNIVERSITY OF MIAMI	OS00001179			\$ 920,364,194		
NG DISEASES RESEARCH	93.838	UNIVERSITY OF MICHIGAN	SUBK00010624			\$ 920,364,194		\$
NG DISEASES RESEARCH	93.838	UNIVERSITY OF MICHIGAN	SUBK00012073			\$ 920,364,194	\$ - \$	
NG DISEASES RESEARCH	93.838	UNIVERSITY OF VIRGINIA	GB11023.169673	29,514,396	Research and Development	\$ 920,364,194	s - \$	\$ 42
NG DISEASES RESEARCH	93.838	UNIVERSITY OF WASHINGTON	UWSC14034	29,514,396	Research and Development	\$ 920,364,194	\$ - \$	\$ 17
JNG DISEASES RESEARCH	93.838	YALE UNIVERSITY	CON-80003373 (GR113907)		Research and Development	\$ 920,364,194	5 - 5	5 1
UNG DISEASES RESEARCH	93.838			29,514,396	·	\$ 920,364,194		
IAINTENANCE OF THE INNOVATION CENTER (IC)	93.RD	HARVARD PILGRIM HEALTH CARE	SUB TO 75F40119D10037	24,356,909	Research and Development	\$ 920,364,194		\$ 25,51. \$ 5

	Federal	Name of Funder	Identifying Number Assianed By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Fynenditures
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201890820	\$ 116,237	N/A	\$ - :	July Heerbreite	LADEIMINATES
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3204510622	\$ 116,237	N/A	\$ -		
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	320961-06-01	\$ 116.237	N/A	\$ -		,
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3258990618	\$ 116,237	N/A	\$ -	, ,	
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110	HHT FOUNDATION INTERNATIONAL INC.		\$ 116,237	N/A	š -		-,-
MATERNAL AND CHILD HEALTH FEDERAL CONSOLIDATED PROGRAMS	93.110	LEHIGH VALLEY HEALTH NETWORK	HRSA 22 23 011	\$ 116.237	N/A	\$ -	, ,	
MATERNAL AND CHILD HEALTH SERVICES BLOCK GRANT TO THE STATES	93,994	PA Department of Health and Human Services	4100089359	\$ 773,729	N/A	š -		-, -
MATERNAL AND CHILD HEALTH SERVICES BLOCK GRANT TO THE STATES	93.994	Pennsylvania Department of Health	4100085650	\$ 773,729	N/A	\$ -		, 500,00
MATERNAL AND CHILD HEALTH SERVICES BLOCK GRANT TO THE STATES	93.994	Pennsylvania Department of Health		\$ 773,729	N/A	\$ -		
MECHANICAL DEVICE FOR THE PREVENTION OF VTE IN HIGH RISK PATIENT POPUL	93.RD		SUB TO 2R44HL145860	\$ 24,356,909	Research and Development	\$ 920.364.194		,
MEDICAL ASSISTANCE PROGRAM	93.KD 93.778	OSCIFLEX, LLC		\$ 24,356,909	Medicaid CLUSTER	\$ 920,364,194		
		CITY OF PHILADELPHIA (DBHIDS)	E2E0440 0E			· · · · · · ·	, ,	, 1/3,0/
MEDICAL LIBRARY ASSISTANCE MEDICAL LIBRARY ASSISTANCE	93.778 93.879	COMMONWEALTH OF PENNSYLVANIA	4300763862	\$ 416,047 \$ 1,677,213	Medicaid CLUSTER	\$ 416,047 \$ 920,364,194		
				+ -,,	Research and Development	+,	2 230,110 4	
MENTAL AND BEHAVIORAL HEALTH EDUCATION AND TRAINING GRANTS	93.732			\$ 300,990	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	ADVANCED MEDICAL ELECTRONICS	IMIVILEZE-OCDINIIGI-OZ	\$ 43,498,026	Research and Development	\$ 920,364,194		42,30
MENTAL HEALTH RESEARCH GRANTS	93.242	ALLEN INSTITUTE FOR BRAIN SCIENCE		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	ALLEN INSTITUTE FOR BRAIN SCIENCE		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	ARIZONA STATE UNIVERSITY	18-285	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	BOISE STATE UNIVERSITY		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	BOISE STATE UNIVERSITY	9445-PO138437	\$ 43,498,026	Research and Development	\$ 920,364,194		87,05
MENTAL HEALTH RESEARCH GRANTS	93.242	BOSTON CHILDREN'S HOSPITAL	GENFD0002271757	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	20,97
MENTAL HEALTH RESEARCH GRANTS	93.242	BOSTON UNIVERSITY	4500004271	\$ 43,498,026	Research and Development	\$ 920,364,194		112,34
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201571123	\$ 43,498,026	Research and Development	\$ 920,364,194		14,9
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201740321-S1	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	80,4
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	950480RSUB	\$ 43,498,026	Research and Development	\$ 920,364,194	· • - •	
MENTAL HEALTH RESEARCH GRANTS	93,242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GILL 00000301	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002364	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)		\$ 43,498,026	Research and Development	\$ 920,364,194		51,1:
MENTAL HEALTH RESEARCH GRANTS MENTAL HEALTH RESEARCH GRANTS	93.242							
MENTAL HEALTH RESEARCH GRANTS	93.242	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002459	\$ 43,498,026 \$ 43,498,026	Research and Development	\$ 920,364,194		
		CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)			Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	COLUMBIA UNIVERSITY	1(GG014372-01)	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	COLUMBIA UNIVERSITY	5(0001/01+01)	\$ 43,498,026	Research and Development	\$ 920,364,194		, 10,00
MENTAL HEALTH RESEARCH GRANTS	93.242	DESMOND TUTU HEALTH FOUNDATION	NIH-U=U:UPenn01	\$ 43,498,026	Research and Development	\$ 920,364,194	,	
MENTAL HEALTH RESEARCH GRANTS	93.242	DREXEL UNIVERSITY		\$ 43,498,026	Research and Development	\$ 920,364,194	, ,	
MENTAL HEALTH RESEARCH GRANTS	93.242	DUKE UNIVERSITY	A035002	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	50,49
MENTAL HEALTH RESEARCH GRANTS	93.242	EMORY UNIVERSITY	A051228	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	299,96
MENTAL HEALTH RESEARCH GRANTS	93.242	FLORIDA STATE UNIVERSITY	R000003090	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	105,62
MENTAL HEALTH RESEARCH GRANTS	93.242	LYSSN.IO, INC	128101-PENN01	\$ 43,498,026	Research and Development	\$ 920,364,194	5 - 5	297,21
MENTAL HEALTH RESEARCH GRANTS	93.242	MICHIGAN STATE UNIVERSITY	RC112111B	\$ 43,498,026	Research and Development	\$ 920,364,194	s - s	18,45
		NEW YORK UNIVERSITY GROSSMAN SCHOOL OF						
MENTAL HEALTH RESEARCH GRANTS	93.242	MEDICINE	19-A0-00-1003623	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	362,51
MENTAL HEALTH RESEARCH GRANTS	93.242	NORTHWESTERN UNIVERSITY	60047194 UP	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	8,5
MENTAL HEALTH RESEARCH GRANTS	93,242	NORTHWESTERN UNIVERSITY	60063460 UPENN	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	NOUS IMAGING, INC.	R44MH121276 Sub3	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	NOUS IMAGING, INC.	R44MH124567_Sub3	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	PALO ALTO VETERANS INSTITUTE FOR RESEARCH	WIS0003-05	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	PENNSYLVANIA STATE UNIVERSITY		\$ 43,498,026	Research and Development	\$ 920,364,194		
			UPENNWH124605		kesearch and Development			33,30
MENTAL HEALTH RESEARCH GRANTS	93.242	RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF	90077/2/1165626	\$ 43,498,026	Research and Development	\$ 920,364,194	s - s	55,93
AAFAITAL UFALTU DECEADOU CDANTO	02.5-5	NEW YORK		ć 42.400.00°	December of December 1	ć 020.264.623		
MENTAL HEALTH RESEARCH GRANTS	93.242	RESEARCH TRIANGLE INSTITUTE		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	RUTGERS UNIVERSITY	1962	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	SEATTLE CHILDREN'S HOSPITAL RESEARCH INSTITUTE	12684SUB	\$ 43,498,026	Research and Development	\$ 920,364,194		88,81
MENTAL HEALTH RESEARCH GRANTS	93.242	STANFORD UNIVERSITY	62723868-144480	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	STANFORD UNIVERSITY		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	TEMPLE UNIVERSITY	260864-Penn	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	THOMAS JEFFERSON UNIVERSITY	000 13130 330001	\$ 43,498,026	Research and Development	\$ 920,364,194		,-
MENTAL HEALTH RESEARCH GRANTS	93.242	TULANE UNIVERSITY	TUL-HSC-560958-22/23	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF ALABAMA AT BIRMINGHAM	000518108-003	\$ 43,498,026	Research and Development	\$ 920,364,194		17,8
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF CALIFORNIA, BERKELEY	00011195	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF CALIFORNIA, SAN DIEGO	118744601	\$ 43,498,026	Research and Development	\$ 920,364,194		3,5
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	11696sc	\$ 43,498,026	Research and Development	\$ 920,364,194	\$ - \$	86,2
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	13421sc	\$ 43,498,026	Research and Development	\$ 920,364,194		21,5
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF FLORIDA	SUB00002369	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF MARYLAND		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF MINNESOTA	P008726301	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF WASHINGTON		\$ 43,498,026	Research and Development	\$ 920,364,194		,
MENTAL HEALTH RESEARCH GRANTS	93.242	UNIVERSITY OF WASHINGTON		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	VALA SCIENCES, INC.		\$ 43,498,026	Research and Development	\$ 920,364,194		255.0
WENTAL HEALTH RESEARCH GRANTS MENTAL HEALTH RESEARCH GRANTS	93.242				Research and Development			
		VANDERBILT UNIVERSITY						,.
MENTAL HEALTH RESEARCH GRANTS	93.242	WASHINGTON UNIVERSITY IN ST. LOUIS		\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-23-0292	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	YALE UNIVERSITY	G11207072 (CO14 00002033)	\$ 43,498,026	Research and Development	\$ 920,364,194		486,8
MENTAL HEALTH RESEARCH GRANTS	93.242	YALE UNIVERSITY	GR110979 (CON-80002775)	\$ 43,498,026	Research and Development	\$ 920,364,194		
MENTAL HEALTH RESEARCH GRANTS	93.242	YALE UNIVERSITY	GR111808 (CON-80002838)	\$ 43,498,026	Research and Development	\$ 920,364,194		7,5
MENTAL HEALTH RESEARCH GRANTS	93.242			\$ 43,498,026	Research and Development	\$ 920,364,194	\$ 4,647,319 \$	36,340,31
MINORITY HEALTH AND HEALTH DISPARITIES RESEARCH	93.307	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201001122	\$ 4,897,212	Research and Development	\$ 920,364,194	5 - 5	15,05

ALN	Federal Name of Funder						
ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
93.307	UNIVERSITY OF OKLAHOMA	2023-37 \$		Research and Development			
		\$					
							4,32
							7,52 68.15
							34.87
	VINGINIA COMMONWEALTH ONIVERSHI			Research and Development			
93.233	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201930820 S		Research and Development	\$ 920,364,194		18,08
93.233	UNIVERSITY OF NEVADA, LAS VEGAS			Research and Development			
93.233	VANDERBILT UNIVERSITY MEDICAL CENTER	VUMC98170 \$	4,608,051	Research and Development	\$ 920,364,194	\$ - \$	64,55
		\$		Research and Development			
		· · · · · · · · · · · · · · · · · · ·					8,060,8
							3,4
							5 20,17
		2(00024705 02)					
93.361	UNIVERSITY OF PITTSBURGH			Research and Development			. ,
93.361	VILLANOVA UNIVERSITY	530079UPenn \$	8,241,227	Research and Development			21,1
93.361	VISITING NURSE SERVICE OF NEW YORK		8,241,227	Research and Development			
93.361		<u>-</u>	8,241,227	Research and Development	\$ 920,364,194	\$ 1,103,779 \$	
93.364		\$	4,148,414	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666	\$ - \$	27,1
93.U01		\$	-,	N/A	\$ - 5	\$ - \$, 0,2
93.262		ç	124,773	Research and Development		7 7	
93.788	Pennsylvania Commission on Crime & Delinquency			N/A			(00)00
					\$ - 9	\$ - \$,
					\$ - 5	\$ - \$	115,40
							. ,.
							10,79
							, .
93.121	GEORGETOWN UNIVERSITY		-, -, -	Research and Development	, , . ,	7	
93.121	LANKENAU INSTITUTE FOR MEDICAL RESEARCH		10,254,673	Research and Development	\$ 920,364,194	\$ - \$.,.
93.121	LOUISIANA STATE UNIVERSITY			Research and Development	\$ 920,364,194	\$ - \$	71,68
93.121	MS TECHNOLOGIES CORP.	301.0003.05 \$	10,254,673	Research and Development	\$ 920,364,194	\$ - \$	41,46
93.121	NEW YORK UNIVERSITY	F0671-01 \$		Research and Development			59,38
	NEW YORK UNIVERSITY	F1433-01 \$					8,80
93.121	TEXAS A&M UNIVERSITY	M2101600 \$	10,254,673	Research and Development	\$ 920,364,194	\$ - \$	(2,17
93.121	UNIVERSITY OF ROCHESTER	SUB00000528/UR FAO GR532295 \$	10,254,673	Research and Development	\$ 920,364,194	s - s	13,45
93.121	UNIVERSITY OF ROCHESTER MEDICAL CENTER	417864-G / UR FAO GR511139 \$	10,254,673	Research and Development	\$ 920,364,194	\$ - \$	109,91
93.121	VIRGINIA COMMONWEALTH UNIVERSITY	FP00010440 SA002 \$	10,254,673	Research and Development			
93.121	VIRTUALLY BETTER, INC.	SUB TO 1R42DE030040 \$	10,254,673	Research and Development	\$ 920,364,194	\$ - \$	6,29
93.121		\$	10,254,673	Research and Development	\$ 920,364,194	\$ 876,075 \$	9,701,22
93.136	Pennsylvania Department of Health	N/A \$		Research and Development	\$ 920,364,194		
93.RD	WASHINGTON UNIVERSITY IN ST. LOUIS		24,356,909	Research and Development	\$ 920,364,194	\$ - \$	38,69
93.RD	DUKE UNIVERSITY		24,356,909	Research and Development	\$ 920,364,194	s - s	59,47
93.RD			24,356,909	Research and Development	\$ 920,364,194	\$ - \$	137,46
93.RD				Research and Development			
93.084	RUSH UNIVERSITY	21092802-Sub04		Research and Development			24,99
					\$ 920,364,194	\$ - \$	418,00
	City of Philadelphia (Dept Public Health)				\$ - 5	\$ - \$	
	MDRC				\$ 920,364,194	\$ - \$	
	Lancaster County Children & Youth				\$ - 5	\$ - \$	31,08
							. 234,31
							18,76
	UNIVERSITI OF MINNESUTA						
93.226	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00000523		Research and Development			
93.226	EMORY UNIVERSITY			Research and Development			18,31
93.226	EMORY UNIVERSITY			Research and Development			
93.226							
93.226	VISITING NURSE SERVICE OF NEW YORK			Research and Development			
93.226	YALE UNIVERSITY			Research and Development	\$ 920,364,194	\$ - \$	9,5
93.226		\$	2,531,305	Research and Development	\$ 920,364,194		
		GRT-00000478 \$	7,307,773	Research and Development	\$ 920,364,194		213,8
93.173	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)						
93.173	MEDICAL COLLEGE OF WISCONSIN	SUB TO R01DC016622 \$	7,307,773	Research and Development	\$ 920,364,194	\$ - \$	121,8
			7,307,773 7,307,773			\$ - \$ \$ - \$	
	93.307 93.307 93.307 93.350 93.350 93.350 93.350 93.350 93.350 93.350 93.350 93.350 93.233 92.233 92.233 93.233 93.233 93.233 93.233 93.261 93.360 93.788 93.789 93.789 93.781 93.121	93.307 93.307 93.350 93.350 UNIVERSITY OF WISCONSIN-MADISON 93.350 UNIVERSITY OF WISCONSIN-MADISON 93.350 UNIVERSITY OF WISCONSIN-MADISON 93.350 UNIVERSITY OF WISCONSIN-MADISON 93.350 93.350 UNIVERSITY OF WISCONSIN-MADISON 93.350 93.233 CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP) 93.233 UNIVERSITY OF WISCONSIN-MADISON 93.233 UNIVERSITY OF MEVADA, LAS VEGAS 93.233 93.106 93.233 UNIVERSITY OF MEVADA, LAS VEGAS 93.233 93.106 93.25 93.10 93.10 ICAHN SCHOOL OF MEDICINE AT MOUNT SINAL PROPERTY OF COLORADO 93.10 93.10 ICAHN SCHOOL OF MEDICINE AT MOUNT SINAL PROPERTY OF COLORADO 93.361 UNIVERSITY OF COLORADO DENVER 93.361 93.364 93.365 93.368 Pennsylvania Commission on Crime & Delinquency 93.369 93.788 Pennsylvania Commission on Crime & Delinquency 93.788 Pennsylvania Commission on Crime & Delinquency 93.788 Pennsylvania Department of Health Pennsylvania Department of	93.307 93.307 93.307 93.300 93.350 UNIVERSITY OF WISCONSIM-MADISON 93.350 UNIVERSITY OF WISCONSIM-MADISON 93.350 UNIVERSITY OF WISCONSIM-MADISON 93.350 UNIVERSITY OF WISCONSIM-MADISON 93.350 93.350 UNIVERSITY OF WISCONSIM-MADISON 93.350 93.350 93.323 UNIVERSITY OF WISCONSIM-MADISON 93.323 UNIVERSITY OF WISCONSIM-MADISON 93.233 93.233 UNIVERSITY OF WISCONSIM-MADISON 93.233 93.243 93.255 93.260 93.225 93.280 93.281 93.2825 93.280 93.281 93.380 UNIVERSITY OF WISCONSIM-MADISON 93.380 UNIVERSITY OF WISCONSIM-MADISON 93.380 UNIVERSITY OF WISCONSIM-MADISON 93.381 UNIVERSITY OF COLORADO DENVER PISS.10.001 PISS.10.00	93.307 UNIVERSITY OF DICLAHOMA 2023-37 \$ 4,897,212 93.307 UNIVERSITY OF PITTSUBURCH AMUDODOLTY (13405-51) \$ 13,614,024 93.305 UNIVERSITY OF WISCONSIN-MADISON 0000000889 \$ 13,614,024 93.305 UNIVERSITY OF WISCONSIN-MADISON 0000000889 \$ 13,614,024 93.305 UNIVERSITY OF WISCONSIN-MADISON 0000002356 \$ 13,614,024 93.305 UNIVERSITY OF NEW YORK ON THE PRODUCT OF STATE OF THE	9.3.907 9.3.90	9.1367 UNIVESTITO FOLIAMONA 2023-37 5 4,897,121 Research and Development 5 923,043,191 93,393 UNIVESTITO FOR PRINTINGS AND COMPANIES 1 12,40,101 Research and Development 5 923,043,191 93,393 UNIVESTITO FOR WECKSIGN-MADRON 000002385 1 13,44,002 Research and Development 5 923,043,191 93,390 UNIVESTITO FOR WECKSIGN-MADRON 000002387 1 13,64,002 Research and Development 5 923,043,191 93,390 UNIVESTITO FOR WECKSIGN-MADRON 000002387 1 13,64,002 Research and Development 5 923,043,191 93,390 UNIVESTITO FOR WECKSIGN-MADRON 000002387 1 13,64,002 Research and Development 5 923,04,191 93,293 UNIVESTITO FOR WECKSIGN-MADRON 000002387 1 13,64,002 Research and Development 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 4,600,051 Research and Development 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 4,600,051 Research and Development 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 4,600,051 Research and Development 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO FOR WARD, KING WEGKS GROUPS 5 923,04,191 93,293 UNIVESTITO F	9-3.007 9-3.00

	Federal ALN	Name of Funder Pass-Through	Identifying Number Assigned By Funder Pass-Through	Federal Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	93.173	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	10858sc	7,307,773	Research and Development	\$ 920,364,194	ś - ś	3,55
RESEARCH RELATED TO DEAFNESS AND COMMUNICATION DISORDERS	93.173		:	7,307,773	Research and Development	\$ 920,364,194	\$ 67,480 \$	6,441,24
RYAN WHITE HIV/AIDS DENTAL REIMBURSEMENT AND COMMUNITY BASED DENTAL PARTNERSHIP GRANTS	93.924			112,019	N/A	\$ -	\$ - \$	
SICKLE CELL TREATMENT DEMONSTRATION PROGRAM	93.365	JOHNS HOPKINS UNIVERSITY	SUB TO U1EMC27864	54,545	Research and Development	\$ 920,364,194	\$ - \$	54,54
SOCIAL SERVICES BLOCK GRANT	93.667	CITY OF PHILADELPHIA (DBHIDS)	2120005-02	219,317	N/A	\$ -	\$ - \$	219,31
SOCIAL SERVICES RESEARCH AND DEMONSTRATION	93.647	DREXEL UNIVERSITY	900209	18,854	Research and Development	\$ 920,364,194		
SPECIAL PROGRAMS FOR THE AGING_TITLE IV_AND TITLE II_DISCRETIONARY PROJECTS	93.048	OASIS INSTITUTE	SUB TO 90CCDG0001		N/A	\$ -	\$ - \$	
SPORE IN SKIN CANCER (PROJECT 1)	93.RD	WISTAR INSTITUTE	29050-02-314; Project 1	24,356,909	Research and Development	\$ 920,364,194	\$ - \$	332,12
STRENGTHENING EMERGENCY CARE DELIVERY IN THE UNITED STATES HEALTHCARE SYSTEM THROUGH HEALTH	93.078		:	52,398	Research and Development	\$ 920,364,194	\$ - \$	52,398
INFORMATION AND PROMOTION								
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES_PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE	93.243 93.243	ADAMS COUNTY, PENNSYLVANIA CITY OF PHILADELPHIA	SUB TO 1H79SM081196-01 Sub to SAMHSA	1,124,833	N/A N/A	\$		-,-
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES_PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE	93.243	DREXEL UNIVERSITY	900163	1,124,833	N/A N/A	*	\$ - \$ \$ - \$	
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES_ROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE	93.243	Lancaster County Drug & Alcohol Commission	N/A		N/A	\$ -		. ,
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES_PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE	93.243	PENNSYLVANIA DEPARTMENT OF HUMAN SERVICES	4000027776	1,124,833	N/A	\$ -	, ,	
SUBSTANCE ABUSE AND MENTAL HEALTH SERVICES_PROJECTS OF REGIONAL AND NATIONAL SIGNIFICANCE	93.243				N/A	\$ -	s - s	
TASK ORDER 1 - CONTRACEPTIVE DEVELOPMENT PROGRAM NICHD CONTRACEPTIVE C	93.RD			24,356,909	Research and Development	\$ 920,364,194	\$ - \$	12,68
TRAINING IN GENERAL, PEDIATRIC, AND PUBLIC HEALTH DENTISTRY	93.059			551,519	Research and Development	\$ 920,364,194	\$ - \$	
TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS	93.840	NORTHWESTERN UNIVERSITY	60064251 UPENN		Research and Development	\$ 920,364,194		
TRANSLATION AND IMPLEMENTATION SCIENCE RESEARCH FOR HEART, LUNG, BLOOD DISEASES, AND SLEEP DISORDERS	93.840		:	1,109,194	Research and Development	\$ 920,364,194	\$ 383,701 \$	1,099,06
TRANS-NIH RESEARCH SUPPORT	93.310	CARNEGIE MELLON UNIVERSITY	1090672-460914		Research and Development	\$ 920,364,194		26,62
TRANS-NIH RESEARCH SUPPORT	93.310	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201240619		Research and Development	\$ 920,364,194	, ,	
TRANS-NIH RESEARCH SUPPORT	93.310	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	GRT-00002303-XX		Research and Development	\$ 920,364,194		
TRANS-NIH RESEARCH SUPPORT	93.310	DREXEL UNIVERSITY	800134		Research and Development	\$ 920,364,194		
TRANS-NIH RESEARCH SUPPORT	93.310 93.RD			12,448,138	Research and Development	\$ 920,364,194		
TREATMENT FOR MIXED URINARY INCONTINENCE: MID-URETHRAL SLING VS. BOTOX ULTRASENSITIVE PSA QUANTITATION USING SMARTPHONE TO REDUCE PROSTATE CA	93.RD 93.RD	RESEARCH TRIANGLE INSTITUTE INSTANOSIS, INC.	0213574/0213581 SUB TO R41CA254653		Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
		INSTANOSIS, INC. BLOOD AND MARROW TRANSPLANTATION CLINICAL						
UPCC 03422: A PHASE 3, RANDOMIZED, OPEN-LABEL, MULTICENTER STUDY, TO C	93.RD	TRIALS NETWORK BLOOD AND MARROW TRANSPLANTATION CLINICAL	RIDER 2002	,,		\$ 920,364,194	•	
UPCC08421: PHASE II MULTI-CENTER TRIAL OF ANTI-B CELL MATURATION ANTIG	93.RD	TRIALS NETWORK BLOOD AND MARROW TRANSPLANTATION CLINICAL	BMT CTN PROTOCOL #1902	,,	Research and Development	\$ 920,364,194	, ,	,
UPCC35419: CLINICAL TRANSPLANT-RELATED LONG-TERM OUTCOMES OF ALTERNATI	93.RD	TRIALS NETWORK	PROTOCOL RIDER #1702	24,356,909	Research and Development	\$ 920,364,194	\$ - \$	71,761
VISION RESEARCH	93.867	BRIGHAM AND WOMEN'S HOSPITAL	126553		Research and Development	\$ 920,364,194		38,478
VISION RESEARCH	93.867	CASE WESTERN RESERVE UNIVERSITY	RES517325		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201360819	16,613,428	Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	CHILDREN'S HOSPITAL OF PHILADELPHIA (CHOP)	3201580224		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	COLUMBIA UNIVERSITY	1(GG013355-01)		Research and Development	\$ 920,364,194	7	
VISION RESEARCH VISION RESEARCH	93.867 93.867	DOHENY EYE INSTITUTE	10614-UPenn 303001347	.,,	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
VISION RESEARCH	93.867	DUKE UNIVERSITY DUKE UNIVERSITY	303001347		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	DUKE UNIVERSITY	A034815	16.613.428	Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	FOX CHASE CHEMICAL DIVERSITY CENTER	R41EY030391-UP	16,613,428	Research and Development	\$ 920,364,194	š - š	
VISION RESEARCH	93.867	HARVARD MEDICAL SCHOOL	150507.5117091.0003	16,613,428	Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	JAEB CENTER FOR HEALTH RESEARCH	EY 14231	16,613,428	Research and Development	\$ 920,364,194	\$ - \$	70
VISION RESEARCH	93.867	JAEB CENTER FOR HEALTH RESEARCH	SUB TO UG1EY014231	16,613,428	Research and Development	\$ 920,364,194		3,57
VISION RESEARCH	93.867	JOHNS HOPKINS UNIVERSITY	2004433095		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	JOHNS HOPKINS UNIVERSITY	2005421250	16,613,428	Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	NEW ENGLAND COLLEGE OF OPTOMETRY	3708-07-01-2020UPenn		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	NEW YORK UNIVERSITY	16-A0-00-005168	,,	Research and Development	\$ 920,364,194		.,
VISION RESEARCH	93.867	NEW YORK UNIVERSITY	SUB TO 1U10EY026869	10,013,410	Research and Development	\$ 920,364,194		6,48
VISION RESEARCH VISION RESEARCH	93.867 93.867	STANFORD UNIVERSITY UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	63004890-245349 14569sc	16,613,428 16,613,428	Research and Development Research and Development	\$ 920,364,194 \$ 920,364,194		
VISION RESEARCH	93.867	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO UNIVERSITY OF PITTSBURGH	AWD00006564 (138813-1)		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	VANDERBILT LINIVERSITY MEDICAL CENTER	VUMC91400		Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867	WASHINGTON UNIVERSITY IN ST. LOUIS	WU-23-0027	16,613,428	Research and Development	\$ 920,364,194		
VISION RESEARCH	93.867		110 23 0027		Research and Development	\$ 920,364,194	7 7	
LDS MEDICAL ISSUD AFTER 07/01/2022	93.342			17,374,886	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		32,17
HPL MEDICAL OUTSTANDING AS OF 07/01/2022	93.342					\$ 273,232,666		
NURSING STUDENT LOAN UNDERGRADUATE NEW LOANS ISSUED DURING 2023	93.364			4,148,414	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		279,32
HPL VET ISSUED AFTER 07/01/2022	93.342				STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		317,20
NURSE FACULTY LOAN PROGRAM ISSUED DURING FY23	93.264			2,866,867	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		
NURSING STUDENT LOAN GRADUATE OUTSTANDING LOANS ISSUED AS OF 07/01/2022	93.364			,=,.=.	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666	7 7	
HPL DENTAL ISSUED AFTER 07/01/2022	93.342			17,374,886		\$ 273,232,666		
LDS MEDICAL OUTSTANDING AS OF 07/01/2022 NURSE FACULTY LOAN PROGRAM OUTSTANDING AS OF 07/01/22	93.342 93.264			17,374,886	STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666		
NURSE FACULTY LOAN PROGRAM OUTSTANDING AS OF 07/01/22 NURSING STUDENT LOAN UNDERGRADUATE OUTSTANDING LOANS ISSUED AS OF 07/01/2022	93.264 93.364				STUDENT FINANCIAL ASSISTANCE STUDENT FINANCIAL ASSISTANCE	\$ 273,232,666 \$ 273,232,666		
HPL DENTAL OUTSTANDING AS OF 07/01/2022	93.364			4,148,414		\$ 273,232,666		
COVID-19 - PROVIDER RELIEF FUND	93.342				N/A	\$ 2/3,232,000		
DEPARTMENT OF HEALTH AND HUMAN SERVICES Total	33.430			. 15,005,031	19/0		\$ 95,093,045 \$	
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE								
AMERICORPS	94.006	COMMONWEALTH OF PENNSYLVANIA	AMERICORP 2021-2022	\$ 439,402	N/A	\$ -	\$ - \$	72,726
AMERICORPS	94.006	COMMONWEALTH OF PENNSYLVANIA	NEXT STEPS AMERICORPS 22/23	439,402	N/A	\$ -		
AMERICORPS	94.006			439,402	N/A	\$ -		103,95
COVID-19 - ENHANCING THE PUBLIC HEALTH RESPONSE TO DOMESTIC VIOLENCE IN THE CONTE	94.RD	ARIZONA STATE UNIVERSITY	ASUB00001170	20,023	Research and Development	\$ 920,364,194	\$ - \$	20,82
VOLUNTEERS IN SERVICE TO AMERICA	94.013			555,942	N/A	\$ -	\$ - \$	
CORPORATION FOR NATIONAL AND COMMUNITY SERVICE Total DEPARTMENT OF HOMELAND SECURITY							<u>\$ -</u> <u>\$</u>	
DETECTION CANINE SCIENCES, INNOVATION, TECHNOLOGY AND EDUCATION (DCSIT	97.RD	AUBURN UNIVERSITY	22-CVM-212013-UPENN	311,003	Research and Development	\$ 920,364,194		
COVID-19 - FEMA PUBLIC ASSISTANCE GRANTS	97.036	Pennsylvania Emergency Management Agency	4100090996	5,672,092	N/A	S -	s - s	1,357,58

			Identifying Number					
	Federal	Name of Funder	Assigned By Funder	Federal				
	ALN	Pass-Through	Pass-Through	Program	Cluster	Cluster	Provided to	Federal
Federal Awardina Agency/Program Title	Number	Entity	Entity	Total	Name	Total	Sub-Recipients	Expenditures
COVID-19 - FEMA PUBLIC ASSISTANCE GRANTS	97.036	Pennsylvania Emergency Management Agency	N/A	\$ 5,672,092	N/A	\$ - \$	- \$	4,314,506
DEPARTMENT OF HOMELAND SECURITY Total						\$	- \$	5,983,157
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT								
CULTURAL CHANGE FOR TRANSPARENCY OFFICE OF THE ATTORNEY GENERAL OF THE	98.RD	DAI GLOBAL, LLC	1004341-101	\$ 969,134	Research and Development	\$ 920,364,194 \$	59,101 \$	82,978
INTERNEWS - INSPIRES PROJECT	98.RD	INTERNEWS NETWORK, INC.	SGR-IN-GX1874-FD-103 m00	\$ 969,134	Research and Development	\$ 920,364,194 \$	- \$	859,594
SBAR CAMBODIA SOLID WASTE ACCOUNTABILITY PLATFORM (SWAP)	98.RD	DUKE UNIVERSITY	389-000039	\$ 969,134	Research and Development	\$ 920,364,194 \$	- \$	26,562
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001	CLOUDBURST GROUP	103603-055-001	\$ 271,244	Research and Development	\$ 920,364,194 \$	- \$	7,993
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001	CLOUDBURST GROUP	PENN-103119-001	\$ 271,244	Research and Development	\$ 920,364,194 \$	- \$	36,511
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001	DEVTECH SYSTEMS, INC.	DEVTECH-UPENN-SC-2022-02	\$ 271,244	Research and Development	\$ 920,364,194 \$	- \$	50,303
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001	MAKING CENTS INTERNATIONAL, INC.	ATARI-01	\$ 271,244	Research and Development	\$ 920,364,194 \$	- \$	56,691
USAID FOREIGN ASSISTANCE FOR PROGRAMS OVERSEAS	98.001	NATIONAL OPINION RESEARCH CENTER	8389.073.UPENN.01	\$ 271,244	Research and Development	\$ 920,364,194 \$	- \$	119,746
U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT Total						\$	59,101 \$	1,240,378
TOTAL EXPENDITURE OF FEDERAL AWARDS						\$	115,484,534 \$	1,236,878,882

1. Basis of Presentation

The Schedule of Expenditures of Federal Awards (the "Schedule") has been prepared to present a summary of those activities of the University of Pennsylvania for the year ended June 30, 2023, which have been financed by the U.S. Government ("Federal awards") and is presented on the accrual basis of accounting. The information in this schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Relegations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance).

For purposes of the Schedule, Federal awards include all Federal assistance entered into directly between the University of Pennsylvania and the Federal government and sub-awards from non-Federal organizations made under federally sponsored agreements. Because the Schedule presents only a selected portion of the activities of the University of Pennsylvania, it is not intended to and does not present the financial position or the revenues, expenses or changes in net assets of the University of Pennsylvania.

The University applies its predetermined approved facilities and administrative rate when charging indirect costs to federal awards rather than the 10% de minimis cost rate as described in Section 200.414 of the Uniform Guidance.

Negative amounts on the schedule represent adjustments in the normal course of business to amounts reported in previous years. Assistance Listing and pass-through award numbers are presented where available.

2. Federal Student Financial Assistance

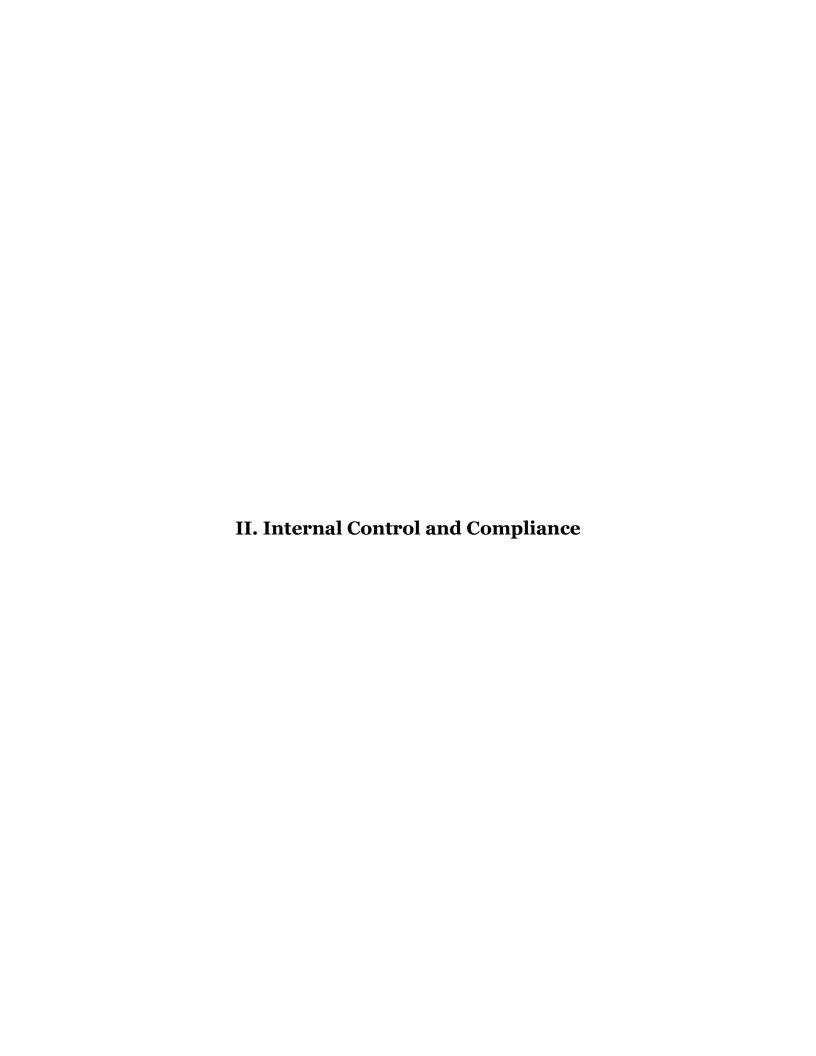
The federal student loan programs included within the Student Financial Aid Cluster on the Schedule of Expenditures of Federal Awards above, with the exception of Federal Direct Loans, are administered directly by the University and balances and transactions relating to these programs are included in the University's consolidated financial statements. Loans outstanding at the beginning of the year and loans made during the year are included in the federal expenditures presented in the Schedule. The amounts of Federal Loans outstanding as of June 30, 2023 are shown below.

Federal Grantor/Program	Assistance Listing Number	Outstanding Balance as of 6/30/2023
Department of Education		
Perkins Loan	84.038	9,206,415
Department of Health and Human Services		
Health Professions Student Loans - Dental	93.342	10,930,488
Health Professions Student Loans - Medical	93.342	121,177
Health Professions Student Loans - Vet	93.342	2,965,861
Loans for Disadvantaged Students - Medical	93.342	2,252,804
Nursing Student Loan - Graduate	93.364	466,861
Nurse Faculty Loan Program	93.264	2,553,502
Nursing Student Loan - Undergraduate	93.364	3,138,696

University of Pennsylvania Notes to Schedule of Expenditures of Federal Awards June 30, 2023

3. Federal Emergency Management Agency ("FEMA")

As of June 30, 2023, the University received approval for \$5.7M of claims submitted to FEMA during 2023 under Assistance Listing Number 97.036. The claims submitted represented incurred expenses attributed to the University's response to COVID-19. The fiscal year 2023 Schedule includes expenses of \$5.7M which were incurred in a prior year.





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

To the Trustees of the University of Pennsylvania

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, the consolidated financial statements of University of Pennsylvania and its subsidiaries (the "University"), which comprise the consolidated statement of financial position as of June 30, 2023, and the related consolidated statements of activities and of cash flows for the year then ended, including the related notes (collectively referred to as the "consolidated financial statements"), and have issued our report thereon dated September 28, 2023.

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 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.

Philadelphia, Pennsylvania September 28, 2023

PricawaterhouseCoopers LLP



Report of Independent Auditors on Compliance for Each Major Program and on Internal Control Over Compliance Required by Uniform Guidance

To the Trustees of the University of Pennsylvania

Report on Compliance for Each Major Federal Program

Opinion on Each Major Federal Program

We have audited University of Pennsylvania and its subsidiaries' (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, 2023. 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, 2023.

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 (US 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 US 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 US 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.

Other Matters

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying schedule of findings and questioned costs as items 2023-001 and 2023-002. Our opinion on each major federal program is not modified with respect to these matters.

Government Auditing Standards requires the auditor to perform limited procedures on the University's response to the noncompliance findings identified in our audit described in the accompanying Management's View and Corrective Action Plan. The University's response was not subjected to the other auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.



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 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.

Philadelphia, Pennsylvania

nucurale shouse Coopers U.P.

November 29, 2023

III. Schedule of Findings and Questioned Costs

not considered to be material weaknesses?

Section I - Summary of Auditors' Results

)
one reported
)
)

Unmodified

X none reported

___ yes

(iv)	Internal control over major programs:		
	Material weakness(es) identified?	yes	<u>X</u> no
	Significant deficiency(ies) identified that are		

(v) Type of auditors' report issued on compliance for major programs: Unmodified

(vii) Identification of major programs:

	Assistance Listing Number(s)	Name of Federal Program or Cluster				
	Various 93.498 93.914	498 COVID-19 Provider Relief Fund and American Rescue Plan (ARP) Rural Distribu				
(viii) Dollar threshold used to distinguish between Type A and Type B programs: \$3,710,637						
(ix)	Auditee qualified a	as low-risk auditee?	<u>X</u> yes	no		

Section II – Financial Statement Findings

None noted.

Section III - Federal Awards Findings and Questioned Costs

2023-001 Eligibility

Federal Grantor: Department of Health and Human Services, Health Resources and

Services Administration ("HRSA")

Pass-through Entity: City of Philadelphia, AIDS Activity Coordinating Office ("AACO")

Assistance Listing Title: HIV Emergency Relief Project Grants – Outpatient/Ambulatory Medical

Care

Assistance Listing Number: 93.914
Award Year: 2023
Award Number: RW2965
Pass-through Number: 2120575-01

Criteria

Per the Ryan White Client Certification Form Instructions provided to management by the AIDS Activity Coordinating Office, "The certification process must begin for all clients upon initial intake for services and final eligibility is determined once all supporting documentation has been received and verified." Additionally, the form states that copy of all documentation are to be retained by the provider.

The City of Philadelphia Subrecipient Audit Guide Section 6130.04 provides a list of documents to be maintained and states "case management service providers are required to keep a file on each client served."

Further, per the Universal Monitoring Standards set forth by HRSA, the Ryan White HIV/AIDS Program Part A and B Monitoring Standards require service providers who receive Ryan White funding to screen to certify eligibility for Ryan White-funded services. The guidance states that documentation of eligibility determination is required in client records, as evidenced by copies of documents.

Condition

We reviewed a sample of 65 program participants to verify eligibility during the fiscal year. Of the 65 selected, there were 6 program participants at the Wood Clinic within the Clinical Care Associates of the University of Pennsylvania Health System ("Health System") in which the Health System did not maintain Ryan White certification cards as documentation evidencing the control in place to certify the verification of the program participant's eligibility. However, for all 6 program participants, the Health System provided records to support that the program participant met the eligibility requirements.

Cause

Management of the Health System noted that the AACO program at the Wood Clinic ended in November 2022 and the individuals involved in the process did not maintain the documentation evidencing that management verified participant eligibility in the program.

Effect

Program participants accepted into the program may be ineligible and the Health System may not be able to demonstrate eligibility of the participants.

Questioned Costs

None

Recommendation

The Health System should ensure that all individuals involved in the Ryan White certification process are educated that documentation is required to be maintained to support verification of program participant eligibility.

Management's View and Corrective Action Plan

Management's view and corrective action plan is included at the end of this report.

2023-002 Procurement, Suspension and Debarment

Federal Grantor: Department of Health and Human Services and Department of Defense

Program: Research and Development Cluster

Assistance Listing Title: Extramural Research Programs in the Neurosciences and Neurological

Disorders; Military Medical Research and Development

Assistance Listing Number: 93.853, 12.420

Award Year: 7/1/2022 - 6/30/2023

Award Number: 1-DP2-NS-111996-01, W81XWH2010901

Pass-through Entity: Not applicable **Pass-through Number:** Not applicable

Criteria

Per 2 CFR section 180.220, non-federal entities are prohibited from contracting with or making subawards under covered transactions, where vendor purchases exceed \$25,000, to parties that are suspended or debarred. When a non-federal entity enters into a covered transaction, the non-federal entity must verify that the vendor is not suspended or debarred or otherwise excluded from participating in the transaction. This verification may be accomplished by (1) checking the System for Award Management (SAM) Exclusions maintained by the General Services Administration (GSA) and available at SAM.gov, (2) collecting a certification from the Vendor, or (3) adding a clause or condition to the covered transaction with that Vendor. University's policies mirror the procurement policies as required by the Federal government, and defines a covered transaction as purchases exceeding \$10,000.

Condition

In testing compliance with the suspension and debarment compliance requirement, 2 instances of 25 samples selected for testing were noted where the only evidence available to support the date of the performance of the required suspension and debarment checks was after the transaction date, as shown in the chart below. This is a repeat of prior year finding 2022-002.

ALN#	Award Number	Vendor Name	Purchase Order Amount	Invoice Amount	Payment Date	Evidence Date Check Performed
93.853	1-DP2-NS-111996-01	BMG LABTECH INC	\$36,100	\$36,100	9/13/2022	2/24/2023
12.420	W81XWH2010901	DIAGNOSTIC BIOCHIPS INC	\$23,360	\$4,160	2/9/2023	2/24/2023

Cause

The University uses Visual Compliance (VC) for suspension and debarment checks, which was implemented in 2019. Vendors onboarded prior to the implementation were registered and checked via a separate manual process within the procurement department. The above vendors were on-boarded and checked prior to the VC implementation; however, management could not provide evidence that the vendor check was performed prior to conducting business with the vendor due to the manual nature of the legacy process. Management has subsequently performed checks on these vendors and retained documentation of the checks to validate that the vendors are not currently suspended or debarred.

Effect

If procedures related to vendor suspended and debarred checks are not performed timely, there is a risk that the purchases could be made with a suspended or debarred vendor.

Questioned Costs

There are no questioned costs associated with this finding.

Recommendation

We recommend the University continue to follow its corrective action plan.

Management's View and Corrective Action Plan

Management's view and corrective action plan is included at the end of this report.

University of Pennsylvania Summary Schedule of Prior Audit Findings June 30, 2023

Section III - Federal Awards Findings and Questioned Costs

Finding 2022-001 Cash Management

Grantor: Department of Defense, Department of Human and Health Services, National

Science Foundation

Program: Research and Development Cluster; Trio Cluster **Assistance Listing#:** 93.397, 12.630, 93.855, 93.847, 93.RD, 47.041

Title: Cancer Centers Support Grants; Basic, Applied, and Advanced Research in

Science and Engineering; Allergy and Infectious Disease Research; Diabetes, Digestive, and Kidney Diseases Extramural Research; NAID Centers of Excellence for Influenza Research and Response; COVID-19 -Engineering

Award Year: 07/1/2021 - 06/30/2022

Award Number: 5-P30-CA-016520-46, W911NF-17-2-0181, 5-R01-AI-108686-09, 2-U01-DK-

112217-02A1, 75N93021C00015, CMMI-1548571

Passthrough number: Not Applicable

Summary

Per the OMB Compliance Supplement, the non-Federal entity must disburse funds for program purposes before requesting payment from the Federal awarding agency or pass-through entity. In testing conformity with the cash management reimbursement-method, 40 individual expenditures were tested to compare the date of University payment to the vendor to the date of Government reimbursement to the University. Seven instances were noted in which the University paid the vendor after requesting and receiving reimbursement from the government.

Status Update

OMB has brought the 2023 Compliance Supplement in alignment with the requirements for cash management as written in 2 CFR Part 200.305(b), and the auditors did not note any findings in the cash management testing for the FY23 audit.

Finding 2022-002 Procurement, Suspension and Debarment

Grantor: Department of Defense

Program: Research and Development Cluster

Assistance listing#: 12.910

Title: Research and Technology Development

Award Year: 07/1/2021 - 06/30/2022

Award Number: FA8750-18-2-0117 **Passthrough number:** Not Applicable

Summary

Per 2 CFR section 180.220, the non-federal entity must verify that the vendor is not suspended or debarred or otherwise excluded from participating in covered transactions. In testing compliance with the suspension and debarment compliance requirement, one instance out of 25 samples selected for tested was noted where the only evidence available to support the date of the performance of the required suspension and debarment checks was after the transaction date.

Status Update

See the current year finding 2023-002 and management response for additional information.

Office of Corporate Finance

University of Pennsylvania Health System

Thomas W. Cooper Vice President of Corporate Finance

Management View and Corrective Action Plan

Finding 2023-001 Eligibility

Federal Grantor: Department of Health and Human Services, Health Resources and Services

Administration ("HRSA")

Pass-through Entity: City of Philadelphia, AIDS Activity Coordinating Office ("AACO")

Assistance Listing Title: HIV Emergency Relief Project Grants - Outpatient/Ambulatory Medical Care

Assistance Listing Number: 93.914

Award Year: 2023

Award Number: RW2965

Pass-through Number: 2120575-01

While this finding is isolated to the Wood Clinic which ended its AACO program in November 2022, we have communicated the requirement to maintain supporting award documentation to all Penn Medicine practices continuing with Ryan White programs.

Thomas W. Cooper

Vice President / UPHS Corporate Finance thomas.cooper@pennmedicine.upenn.edu

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Office of Research Services

Management View and Corrective Action Plan

Finding 2023-002 Procurement, Suspension and Debarment

The University uses the Visual Compliance tool to provide dynamic screening of vendors in order to reduce administrative burden, eliminating the need to run screenings periodically, and to provide timely notification of any potential suspension and debarment issues with vendors. As part of the FY22 audit, we realized that during the transition from manual screening of vendors to the integration of Visual Compliance with our vendor system, the initial screening in Visual Compliance for certain vendors, appeared to have been missed. Therefore, in February 2023, the Procurement Office ran a batch screen on all active vendors missing the screening documentation in VC at that time; and no further action is needed as a result of the current finding. However, due to the timing of that corrective action plan, the 2 vendors, BMG Labtech Inc and Diagnostic Biochips Inc, had invoices paid in FY23 prior to the corrective action such that there was no evidence of their screening in our system at the time of payment.

Elizabeth D. Peloso

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