# CASE WESTERN RESERVE UNIVERSITY

Report on Federal Financial Assistance Programs in Accordance with the OMB Uniform Guidance For the Year Ended June 30, 2016

Entity Identification Number 1-341018992-A1



#### CASE WESTERN RESERVE UNIVERSITY

#### REPORT ON FEDERAL FINANCIAL ASSISTANCE PROGRAMS IN ACCORDANCE WITH THE OMB UNIFORM GUIDANCE

# June 30, 2016

#### TABLE OF CONTENTS

PART I	FINANCIAL	Pages
	Report of Independent Auditors	1-2
	Financial Statements and Notes for the year ended June 30, 2016	3-28
	Schedule of Expenditures of Federal Awards for the year ended June 30, 2016	29-50
	Notes to the Schedule of Expenditures of Federal Awards for the year ended June 30, 2016	51
PART II	REPORTS ON INTERNAL CONTROL AND COMPLIANCE	
	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 <i>Government Auditing</i> <i>Standards</i>	52-53
	Report of Independent Auditors on Compliance with Requirements That Could Have a Direct and Material Effect on Each Major Program and on Internal Control Over Compliance in Accordance with the Uniform Guidance	54-55
PART III	SCHEDULE OF FINDINGS AND QUESTIONED COSTS	
	Section I – Summary of Auditor's Results	56
	Section II – Financial Statement Findings	56
	Section III – Federal Award Findings and Questioned Cost	56
PART IV	SUMMARY OF STATUS OF FINDINGS FROM PRIOR AUDITS	57

FINANCIAL



#### **Report of Independent Auditors**

To the Board of Trustees, Case Western Reserve University:

#### **Report on the Consolidated Financial Statements**

We have audited the accompanying consolidated financial statements of Case Western Reserve University (the "University"), which comprise the consolidated statement of financial position as of June 30, 2016, and the related consolidated statements of activities and of cash flows for the year then ended, and the related notes to the consolidated financial statements.

#### Management's Responsibility for the Consolidated Financial Statements

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

#### Auditors' Responsibility

Our responsibility is to express an opinion on the consolidated financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

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

#### Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the consolidated financial position of Case Western Reserve University as of June 30, 2016, and the changes in their net assets and their cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Other Matters**

We previously audited the consolidated statement of financial position as of June 30, 2015, and the related consolidated statement of activities and cash flows for the year then ended (not presented herein), and in our report dated October 3, 2015, we expressed an unmodified opinion on those consolidated financial statements. In our opinion, the information set forth in the accompanying summarized financial information as of June 30, 2015 and for the year then ended is consistent, in all material respects, with the audited consolidated financial statements from which it has been derived.

#### **Other 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, 2016 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 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 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 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 directly is accounting and other records used to prepare the consolidated financial statements or to the consolidated financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of expenditures of federal awards is fairly stated, in all material respects, in relation to the consolidated financial statements as a whole.

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated October 8, 2016 on our consideration of Case Western Reserve 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, 2016. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing and not to provide an opinion on 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 Case Western Reserve University's internal control over financial reporting and compliance.

Pricewaterhouse Coopers LLP

October 8, 2016

# CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

	For the ye	ear en	ded
	 Jun		
In thousands of dollars	2016		2015
ASSETS			
Cash and cash equivalents	\$ 139,344	\$	143,096
Operating investments	160,195		148,105
Accounts and loans receivable, net	114,603		106,343
Pledges receivable, net	114,554		97,590
Prepaid expenses and other assets	35,972		6,634
Investments, held for long-term purposes	1,298,508		1,417,187
Funds held in trust by others	312,635		336,825
Property, plant, equipment and books, net	776,317		766,094
TOTAL ASSETS	\$ 2,952,128	\$	3,021,874
LIABILITIES AND NET ASSETS			
LIABILITIES			
Accounts payable and accrued expenses	\$ 55,464	\$	70,585
Deferred income and other liabilities	56,042		55,165
Annuities payable	39,322		40,323
Refundable advances	4,755		2,930
Accrued pension liability	113,516		67,955
Notes and bonds payable	576,290		583,319
Refundable federal student loans	28,811		29,007
TOTAL LIABILITIES	\$ 874,200	\$	849,284
NET ASSETS			
Unrestricted	\$ 152,657	\$	201,953
Temporarily restricted	916,185		969,913
Permanently restricted	1,009,086		1,000,724
TOTAL NET ASSETS	\$ 2,077,928	\$	2,172,590
TOTAL LIABILITIES AND NET ASSETS	\$ 2,952,128	\$	3,021,874

The accompanying notes are an integral part of the consolidated financial statements.

# CONSOLIDATED STATEMENT OF ACTIVITIES with summarized financial information for the year ended June 30, 2015

								For the ye	ear ei e 30	nded
In thousands of dollars	Lin	restricted		emporarily Restricted		ermanently Restricted		2016		201
OPERATING REVENUES								2010		201.
Student tuition and fees	\$	426,432					\$	426,432	\$	394,365
Less: Student aid	-	(170,819)					-	(170,819)	-	(160,801
		255,613						255,613		233,564
Investment returns distributed for operations		65,616						65,616		67,885
FHBO returns distributed		15,098	\$	961				16,059		15,549
Investment returns on operating investments		6,336						6,336		11,854
Grants and contracts		243,096						243,096		234,124
CCLCM grants and contracts		92,112						92,112		81,192
Gifts and pledges		18,020		91,065	\$	22,428		131,513		87,542
State of Ohio appropriation		2,727				, -		2,727		2,770
Facilities and administrative cost recovery		, 72,272						, 72,272		70,611
Organized activities		, 13,069						, 13,069		13,228
Other sources		52,538				274		52,812		47,036
Auxiliary services - students		60,237						60,237		54,203
Auxiliary services - other		9,794						9,794		11,084
Net assets released from restrictions		21,123		(29,783)		8,660		-, -		-
TOTAL OPERATING REVENUES	\$	927,651	\$	62,243	\$	31,362	\$	1,021,256	\$	930,642
OPERATING EXPENSES										
Instructional		311,880						311,880		305,429
Sponsored research and training		246,051						246,051		242,118
Other sponsored projects		24,914						24,914		25,071
CCLCM research and training		92,112						92,112		81,192
Libraries		21,876						21,876		21,926
Student services		29,477						29,477		26,049
University services		110,752						110,752		98,303
Auxiliary services - students		62,945						62,945		59,338
Auxiliary services - other		15,637						15,637		14,878
TOTAL OPERATING EXPENSES	\$	915,644	\$	-	\$	-	\$	915,644	\$	874,304
NET OPERATING ACTIVITY	\$	12,007	\$	62,243	\$	31,362	\$	105,612	\$	56,338
NON-OPERATING ACTIVITIES										
Long-term investment activities										
Investment (loss) income	\$	(1,326)	\$	4,665	\$	2,888	\$	6,227	\$	59,957
Net depreciation	4	(9,754)	Ŧ	(62,142)	Ŷ	(25,800)	Ŷ	(97,696)	Ŷ	(9,390
Total long-term investment activities		(11,080)		(57,477)		(22,912)		(91,469)		50,567
Investment returns distributed for operations		(65,616)		(		(,= ; = ; _ ;		(65,616)		(67,885
Change in liabilities due under life-income agreements		(,,-,				(88)		(88)		(2,248
Loss on disposal of plant assets		(621)				(00)		(621)		(311
Pension plan changes other than periodic benefit costs		(42,480)						(42,480)		(14,555
Net assets released from restrictions		58,494		(58,494)				(12) 100)		-
NET NON-OPERATING ACTIVITY	\$	(61,303)	\$	(115,971)	\$	(23,000)	\$	(200,274)	\$	(34,432
CHANGE IN NET ASSETS	\$	(49,296)	\$	(53,728)	\$	8,362	\$	(94,662)	\$	21,906
Beginning Net Assets		201,953		969,913		1,000,724		2,172,590		2,150,684
	\$	152,657		916,185			\$	2,077,928		2,172,590

The accompanying notes are an integral part of the consolidated financial statements.

# CONSOLIDATED STATEMENTS OF CASH FLOWS

		ear er e 30	r ended		
In thousands of dollars		2016	2 50	2015	
CASH FLOWS FROM OPERATING ACTIVITIES		2010		201.	
Change in net assets	\$	(94,662)	\$	21,900	
Adjustments to reconcile change in net assets to net cash provided by operating activities:	4	(31,002)	Ŧ	21,50	
Depreciation		69,146		64,240	
Amortization of bond issuance costs		315		194	
Amortization of bond premiums		(2,775)		(2,499	
Realized and unrealized net losses (gains) on investments		56,892		(65,86	
Increase to annuities payable resulting from actuarial adjustments		88		2,248	
Gifts of property and equipment		(157)		(25)	
Loss on disposal of plant assets		621		31	
Contributions restricted for long-term investment		(16,215)		(26,35	
(Increase) decrease in accounts and loans receivable, net		(7,452)		3,33	
Increase in pledges receivable, net		(16,964)		(1,02	
Increase in prepaid expenses and other assets		(29,654)		(1,02)	
Decrease in funds held in trust by others		24,189		3,45	
(Decrease) increase in accounts payable and accrued expenses		(10,150)		6,88	
Increase in deferred income and other liabilities		877		593	
Increase in annuities payable		2,194		55.	
Increase (decrease) in refundable advances		1,826		(1,969	
Increase in accrued pension liability		45,561		12,114	
NET CASH PROVIDED BY OPERATING ACTIVITIES	\$	23,680	\$	17,25	
CASH FLOWS FROM INVESTING ACTIVITIES		-			
Student loans					
Collected	\$	7,710	\$	6,842	
Issued		(8,520)	·	(8,54	
Increase in donor-restricted cash for long-term investment		(25,148)		(0)0	
Proceeds from the sale of investments		1,669,323		2,287,530	
Purchase of investments		(1,619,626)		(2,273,309	
Proceeds from the sale of plant assets		341		814	
Purchases of property, plant, equipment and books		(85,144)		(91,444	
NET CASH USED FOR INVESTING ACTIVITIES	\$	(61,064)	\$	(78,108	
CASH FLOWS FROM FINANCING ACTIVITIES	· · · · · · · · · · · · · · · · · · ·	(01,001)		(70,100	
(Decrease) increase in federal advances for student loans	\$	(195)	\$	2,922	
Contributions restricted for long-term investment	4	36,597	4	20,95	
Proceeds from the sale of investments received as gifts		4,766		5,398	
Proceeds from short-term debt		92,000		60,000	
Repayment of short-term debt		(79,000)		(80,000	
Proceeds from commercial paper		(79,000)		5,000	
Repayment of commercial paper		(829)		(15,06	
Proceeds from notes and bonds payable		(829) 75,480		56,88	
Repayment of notes and bonds payable		(91,905)			
		(91,903) 273		(29,956	
Increase to annuities payable resulting from new gifts				84	
Decrease to annuities payable resulting from payments NET CASH PROVIDED BY FINANCING ACTIVITIES	*	(3,555)	*	(3,87)	
NET CASH PROVIDED BY FINANCING ACTIVITIES	\$	33,632	\$	23,11	
	*	(3 753)	*	(37 73)	
NET DECREASE IN CASH AND CASH EQUIVALENTS	\$	(3,752)	\$	(37,732	
Cash and cash equivalents, beginning of year	*	143,096	*	180,828	
CASH AND CASH EQUIVALENTS, END OF YEAR	\$	139,344	\$	143,096	
SUPPLEMENTAL DATA:	*	40 400	*	40	
Interest paid in cash	\$	12,608 4,143	\$	12,578 9,114	
Construction-in-progress payments included in accounts payable					

The accompanying notes are an integral part of the consolidated financial statements.

#### **Basis of Presentation**

Case Western Reserve University ("the University") is an Ohio not-for-profit corporation that operates a private research university in Cleveland, Ohio. The consolidated financial statements of the University as of June 30, 2016, and for the year then ended, as well as summarized information for the year ended June 30, 2015, have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP"). Accordingly, the accompanying consolidated financial statements have been prepared on the accrual basis of accounting and include the accounts of the University and all wholly-owned subsidiaries.

Triangle Residential LP was a limited partnership formed in 2005 that owned and operated two apartment buildings and a parking garage located in the Ford-Euclid-Mayfield Road area through March 31, 2015. The University was the sole limited partner. The general partner was Triangle Residential LLC, also a wholly-owned subsidiary of the University, formed in 2005. All material transactions between the University and its subsidiaries have been eliminated.

Effective March 31, 2015, Triangle Residential LP assigned to the University all of its right, title, and interest in all of its contracts and leases. All right, title, and interest in all tangible and intangible personal property were also assigned to the University by Triangle Residential LP. In addition, the Ground Lease between Triangle Residential LP and the University was terminated effective March 31, 2015. All transactions, assets, and liabilities related to the operation of the two apartment buildings and the parking garage are included in the accounts of the University beginning April 1, 2015.

#### **Net Asset Categories**

Standards for external financial reporting by not-forprofit organizations require that resources be classified for reporting purposes into three net asset categories according to donor-imposed restrictions:

UNRESTRICTED net assets are available for any purpose consistent with the University's mission. Unrestricted net assets and related activity include the following:

· All revenues traditionally classified as unrestricted

resources of the University, including tuition and fees, unrestricted gifts, investment returns on unrestricted funds designated to function as endowment, recovery of facility and administrative costs from grants and contracts, and auxiliary services revenues

- Revenues related to sponsored research and other sponsored program agreements which are considered exchange transactions
- Unrestricted funds functioning similar to endowment and related investment returns
- Gifts with donor-imposed restrictions, if the restriction is anticipated to be met within the current fiscal year of the University
- Investments in plant assets
- All expenses of the University

TEMPORARILY RESTRICTED net assets include investment returns from endowments and gifts for which donorimposed restrictions have not been met. This restriction on temporarily restricted endowment returns (income and realized and unrealized gains and losses) is released when appropriations are distributed for use and the funds have been spent for intended purposes. The category also includes pledges receivable and life-income gifts for which the ultimate purpose of the proceeds is not permanently restricted.

PERMANENTLY RESTRICTED net assets include gifts, trusts and pledges on which donors have imposed the restriction that the corpus is maintained in perpetuity and only the investment returns be made available for program operations. In the case of trusts, gains and losses are added to the gift amount. Gifts restricted by donors to provide loans to students are also included in permanently restricted net assets.

Expirations of temporary restrictions on net assets are reported as reclassifications between the applicable classes of net assets. Donor required matching from University funds and donor release or clarification of restrictions are also included in this category.

Accounting Standards Codification ("ASC") 958, "Not for Profit Entities," provides guidance on the net asset classification of donor-restricted endowment funds for a not-for-profit organization that is subject to an enacted version of the Uniform Prudent Management of Institutional Funds Act ("UPMIFA"), and expanded disclosures about an organization's endowment (both donor-restricted and board-designated funds). The University's Board of Trustees ("the Board") has interpreted UPMIFA as requiring the preservation of the original gift as of the gift date of the donor-restricted endowment funds absent explicit donor stipulation to the contrary. As a result of this interpretation, the University classifies as permanently restricted net assets, (a) the original value of initial gifts donated to the permanent endowment, (b) the original value of subsequent gifts to the permanent endowment, and (c) accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund. The remaining portion of the donor-restricted endowment fund that is not classified as permanently restricted net assets is classified as temporarily restricted net assets until those amounts are appropriated and expended by the University in a manner consistent with the standard of prudence prescribed by UPMIFA.

#### Contributions

Contributions, including unconditional pledges to give and irrevocable trusts held by others with the University as the beneficiary, are recognized as revenues in the period received or promised. They are classified as unrestricted, temporarily restricted, or permanently restricted net assets depending upon the donor's intent.

Contributions restricted for the acquisition of land, buildings and equipment are reported as temporarily restricted revenues. These contributions are reclassified to unrestricted net assets when the assets are placed in service. Promises to give that are subject to donorimposed stipulations that the corpus be maintained in perpetuity are recognized as increases in permanently restricted net assets.

Conditional promises to give are not recognized until the conditions on which they depend are substantially met. Gifts whose restrictions are met in the same fiscal year in which they are received are reported with unrestricted contribution revenues. Contributions of assets other than cash are reported at their estimated fair value at the date of gift. Contributions scheduled to be received after one year are discounted using a market rate (Note 3).

In September 2015, the Board approved the

commencement of the construction phase of the Health Education Campus, a joint project with Cleveland Clinic Foundation. At this time, it is expected that the project will be funded by gifts and private grants (Note 3).

Grants and Contracts (Government and Private)

Revenues from government and private grants and contracts are recognized as earned in accordance with the terms of the grant or contract. Any government payment received before it has been expended is recorded as a refundable advance. Projects funded by government grants that incur expenses prior to payment receipt are recorded as revenue with a corresponding receivable.

#### **Investment Returns on Operating Investments**

The University has invested excess operating funds and certain Board-designated funds with the University's investment pool. The operating funds are invested alongside other funds and receive a pro-rata portion of income, expenses, gains, and losses of the pool.

#### **Cash and Cash Equivalents**

The University considers all highly liquid investments with an original maturity of 90 days or fewer when purchased as cash and cash equivalents, except those amounts managed by investment managers as part of the investment pool that do not belong to operations, or unspent bond proceeds, which are classified as investments. The University maintains operating cash and reserves for replacement balances in financial institutions which, from time to time, may exceed federally insured limits. The University periodically assesses the financial condition of these institutions and believes that the risk of loss is minimal.

#### **Operating Investments**

Operating investments are stated at fair value and include all other current investments with original maturities greater than 90 days that are used to support operations. These investments may include obligations of triple A-rated banks, various United States Government agencies, other investments, and internal operating funds invested in the University's investment pool. Although the pool primarily invests in mid- to long-term investments, the pool maintains a sufficient investment mix that allows operating assets to be liquidated upon demand.

#### **Prepaid Expenses and Other Assets**

Within other assets, the University had cash of \$25,148 restricted by donors for investment in property and equipment as of June 30, 2016.

#### Investments

Investments are made within guidelines authorized by the Board. Investments are initially recorded at cost at date of acquisition or fair value at date of donation in the case of gifts.

Ownership of marketable securities is recognized as of the trade date. Endowment returns are calculated net of internal and external investment management expenses.

Investments are stated at fair value as defined by ASC 820, "Fair Value Measurements and Disclosures." Fair value is defined under ASC 820 as the exchange price that would be received for an asset or paid to transfer a liability, i.e., an exit price, in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date.

The fair value of all debt and equity securities with readily determinable fair values are based on quotations obtained from national securities exchanges. The alternative investments, which are not readily marketable, are carried at estimated fair values as provided by the investment managers. The University reviews and evaluates the values provided by the investment managers and agrees with the valuation methods and assumptions used in determining the fair value of the alternative investments. Those estimated fair values may differ significantly from the values that would have been used had a ready market for these securities existed.

Realized gains and losses on investments are included in *Investment (loss) income*. Average cost is generally used to determine gains or losses on securities sold. Unrealized changes in the fair value of investments are shown as net unrealized appreciation or depreciation.

The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used by the University for financial instruments measured at fair value on a recurring basis (Note 6). The three levels of inputs are as follows:

*Level 1* — Quoted unadjusted prices in active markets for identical assets or liabilities. An active market is one in which transactions occur with sufficient frequency and volume to produce pricing information on an ongoing basis. Market price data are generally obtained from exchange or dealer markets.

*Level 2* — Pricing inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the same term of the assets or liabilities. Inputs are obtained from various sources including market participants, dealers and brokers.

*Level 3* — Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

## Collections

The University's collections of historically significant artifacts, scientific specimens, and art objects are held for education, research, scientific inquiry, and public exhibition. They are neither disposed of for financial gain nor encumbered in any manner. Accordingly, their value is not reflected in the University's consolidated financial statements.

## Funds Held in Trust by Others

Funds held in trust by others are assets held and administered by outside trustees from which the University derives income or residual interest. Funds held in trust by others are reported at their fair value as of June 30, 2016 and 2015.

Income received from funds held in trust by others is classified as temporarily restricted net assets until those amounts are appropriated and expended by the University. Income appropriated within the same year earned/received is classified as unrestricted. Unrealized changes in the fair value of investments are shown as net unrealized appreciation or depreciation in permanently restricted net assets.

#### **Fixed Assets**

When capital assets are sold or disposed, the carrying value of such assets and any accumulated depreciation are removed from the asset accounts. Any resulting gain or loss on disposal is recognized in the non-operating portion of the consolidated statement of activities.

Expenditures for construction-in-progress are capitalized as incurred and depreciated over the estimated life of the asset when placed into service. All identifiable direct costs including other costs incurred to ready the asset for its intended use are included in the cost of the project. The University capitalizes interest on borrowings to finance facilities, net of any investment income earned through the temporary investment of project borrowings, during construction until the project has been substantially completed.

#### **Split-Interest Agreements**

The University has split-interest agreements consisting primarily of pooled income funds, charitable gift annuities and charitable remainder unitrusts and annuities. Contributions are recognized at the date the trusts and annuities are established, net of a liability for the present value of the estimated future cash outflows to beneficiaries, using a discount rate of 1.9% and 2.7% for June 30, 2016 and 2015, respectively. These assets are invested and payments are made to donors and beneficiaries in accordance with the respective agreements.

#### **Allocation of Certain Expenses**

The consolidated statement of activities presents expenses by function. Some expenses — such as depreciation, amortization, and expenses related to the operation of the physical plant — are allocated by square footage. Interest expense is allocated to the functions that derive the greatest benefit from the facilities financed.

#### **Retirement Plans**

The University accounts for its defined benefit postretirement plan in accordance with ASC 715, "Compensation - Retirement Benefits." The University recognizes the overfunded or underfunded status of a defined benefit postretirement plan as an asset or liability in its consolidated statements of financial position in the year in which the change occurs, with an offsetting impact to unrestricted net assets.

#### **Use of Estimates**

Financial statements using U.S. GAAP rely on estimates. At June 30, management makes certain estimates and assumptions, which affect assets and liabilities, disclosures of contingent assets and liabilities, and reported revenues and expenses during the period. Actual results may differ from these estimates.

#### **Comparative Information**

The consolidated statement of activities includes prior year summarized comparative information in total, but not by net asset category. Such information does not include enough detail to constitute a presentation in conformity with U.S. GAAP. Accordingly, such information should be read in conjunction with the University's consolidated financial statements for the year ending June 30, 2015, from which it was derived.

#### **Income Taxes**

The University is exempt from federal income tax to the extent provided under section 501(c) (3) of the Internal Revenue Code ("IRC"). The University is classified as an organization that is not a private foundation under section 509 (a) of the IRC, and as such, gifts to the University qualify for deduction as charitable contributions. The University is exempt from federal income tax; however, it is required to pay federal income tax on unrelated business income. The University did not have any material income tax liabilities for the years ended June 30, 2016 and 2015. ASC 740, "Income Taxes," prescribes a recognition threshold and measurement requirements for financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. In addition, ASC 740 provides guidance on recognition, classification and disclosure requirements for uncertain tax provisions. The University has no financial reporting requirements associated with ASC 740 for the years ended June 30, 2016 and 2015.

#### **New Pronouncements**

In May 2014, the FASB issued Accounting Standard Update ("ASU") 2014-09: "Revenue from Contracts with

Customers (Topic 606)" at the conclusion of a joint effort with the International Accounting Standards Board to create common revenue recognition guidance for U.S. GAAP and international accounting standards. This framework ensures that entities appropriately reflect the consideration to which they expect to be entitled in exchange for goods and services by allocating transaction price to identified performance obligations and recognizing revenue as performance obligations are satisfied. Qualitative and quantitative disclosures are required to enable users of financial statements to understand the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers. The standard is effective for fiscal years beginning after December 15, 2018. The University is evaluating the impact this will have on the consolidated financial statements for fiscal year ending June 30, 2020, the first year in which the standard is effective.

In April 2015, the FASB issued ASU 2015-03: "Imputation of Interest (Subtopic 835-30): Simplifying the Presentation of Debt Issuance Costs," which requires all costs incurred to issue debt to be presented in the balance sheet as a direct deduction from the carrying value of the associated debt liability. The standard is effective for fiscal years beginning after December 15, 2015. The University does not currently expect that the new standard will have a material impact on the consolidated financial statements for fiscal year ending June 30, 2017, the first year in which the standard is effective.

In May 2015, the FASB issued the disclosure changes required by ASU 2015-07: "Fair Value Measurement (Topic 820): Disclosures for Investments in Certain Entities That Calculate Net Asset Value per Share (or Its Equivalent)." Investments that are measured using net asset value will no longer be categorized in the fairvalue hierarchy. This standard is intended to reduce the diversity in practice that currently exists with respect to the categorization of these investments. The standard is effective for fiscal years beginning after December 15, 2016, although early adoption is permitted. The University implemented the standard in the current fiscal year and accordingly applied the new guidance retrospectively to the fiscal year ended June 30, 2015. As a result, investments totaling \$212,214 and \$852,341 categorized in fiscal year 2015 as Level 2 and Level 3, respectively, were recategorized as investments

measured as Net Asset Value ("NAV") totaling \$1,064,555 for fiscal year 2015.

In January 2016, the FASB issued ASU 2016-01: "Financial Instruments - Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities," which addresses certain aspects of recognition, measurement, presentation and disclosure of financial instruments. Among other clarifications, this standard requires certain equity investments to be measured at fair value, simplifies the impairment assessment of equity investments, and eliminates the requirement to disclose the fair value of financial instruments measured at amortized costs for non-public business entities. The standard is effective for fiscal years beginning after December 15, 2017. The University is evaluating the impact this will have on the consolidated financial statements for fiscal year ending June 30, 2019, the first year in which the standard is effective.

In February 2016, the FASB issued ASU 2016-02: "Leases (Topic 842)," which increases transparency and comparability among organizations by recognizing lease assets and lease liabilities on the statement of financial position and disclosing key information about leasing arrangements. This standard requires the recognition of lease assets and lease liabilities by lessees for those leases previously classified as operating leases. The standard is effective for fiscal years beginning after December 15, 2019. The University is evaluating the impact this will have on the consolidated financial statements for fiscal year ending June 30, 2021, the first year in which the standard is effective.

In August 2016, the FASB issued ASU 2016-14: "Presentation of Financial Statements of Not-for-Proft Entities," which simplifies and improves how a notfor-profit entity classifies net assets and presents and discloses information related to liquidity, financial performance, and cash flows in financial statements. The standard is effective for fiscal years beginning after December 15, 2017. The University is evaluating the impact this will have on the consolidated financial statements for fiscal year ending June 30, 2019, the first year in which the standard is effective. Accounts and loans receivable of the University at June 30, 2016 and 2015 were as follows:

ACCOUNTS AND LOANS RECEIVABLE, NET	\$ 114,603	\$ 106,343
STUDENT LOANS, NET	53,629	53,589
Students	2,722	2,160
Grants, contracts and others	\$ 58,252	\$ 50,594
ACCOUNTS RECEIVABLE, NET		
	2016	2015

Allowance for doubtful accounts:

Accounts receivable	\$ 4,838	\$ 3,703
Loans receivable	\$ 2,649	\$ 2,134

Management regularly assesses the adequacy of the allowance for doubtful accounts by performing ongoing evaluations of the various components of the accounts receivable and student loan portfolios, including such factors as the differing economic risks associated with each category, the financial condition of specific

#### 3. PLEDGES RECEIVABLE

Unconditional promises to give are included in the consolidated financial statements as pledges receivable and revenue of the appropriate net asset category. Multiyear pledges are recorded after discounting based on the market rate to the present value of expected future cash flows. The discount rate utilized for fiscal 2016 and 2015 was 5%.

Unconditional promises to give at June 30, 2016 and 2015 are expected to be realized in the following periods:

	2016	2015
In one year or less	\$ 31,278	\$ 26,295
Between one year and five years	86,030	74,520
More than five years	15,334	10,459
	132,642	111,274
Less: Discount	(9,498)	(7,840)
Less: Allowance	(8,590)	(5,844)
TOTAL PLEDGES RECEIVABLE, NET	\$ 114,554	\$ 97,590

Management follows a similar approach as described in Note 2 for accounts and loans receivable in evaluating the adequacy of the allowance for doubtful accounts for pledges receivable. Management considers the borrowers, the economic environment in which the borrowers operate, the level of delinquent loans, and the past history of the various borrowers and the University.

Factors also considered by management when performing its assessment, in addition to general economic conditions and the other factors described above, included, but were not limited to, a detailed review of the aging of the various receivables and loans, and a review of the default rate by loan category in comparison to prior years. The level of the allowance is adjusted based on the results of management's analysis.

Management considers the allowance for doubtful accounts to be prudent and reasonable. Furthermore, the University's allowance is general in nature and is available to absorb losses from any loan category. Management believes that the allowance for doubtful accounts at June 30, 2016 is adequate to absorb credit losses inherent in the portfolio as of that date.

allowance for doubtful accounts to be prudent and reasonable. Management believes that the allowance for doubtful accounts at June 30, 2016 is adequate to absorb any uncollectible pledges as of that date.

Pledges receivable at June 30, 2016 and 2015 had the following restrictions:

	2016		2015
Department programs and activities	\$ 27,369	\$	27,032
Endowments for scholarships and			
department programs and activities	25,967		24,460
Building construction	61,218		46,098
TOTAL PLEDGES RECEIVABLE, NET	\$ 114,554	\$	97,590

Uncollectible pledges totaling \$2,136 (2016) and \$3,940 (2015) were written off against the allowance for uncollectible pledges. The University had conditional pledge commitments totaling \$13,471 (2016) and \$43,725 (2015). The approval by the Board for the commencement of the construction phase of the Health Education Campus in fiscal year 2016, released the conditions for multiple pledge commitments and resulted in increased pledges receivable related to building construction.

#### 4. LONG-TERM INVESTMENTS

The University holds long-term investments for permanently restricted endowment funds, donorrestricted funds, annuity assets, Board-designated funds and excess operating assets that are able to be invested in longer term investments. The University invests through traditional investments as well as operating an investment pool that works similar to a mutual fund (Note 5). The University's long-term investments at June 30, 2016 and 2015 were as follows:

	2016	2015
Cash and cash equivalents	\$ 42,268	\$ 39,049
Domestic stocks	32,551	45,384
International securities	18,463	23,079
Global securities	194,583	110,681
Bonds		
Government and municipal	6,876	6,922
Corporate	14,163	8,167
Mutual funds	327,099	414,750
Derivatives	30,211	38,325
Limited partnerships and Other		
Venture capital	110,302	105,390
Private equity	214,432	238,595
Real estate	94,416	101,885
Hedge funds	324,399	385,232
Other	48,797	47,753
Equity real estate	143	80
TOTAL INVESTMENTS	\$ 1,458,703	\$ 1,565,292
	 2016	 2015
Operating investments	\$ 160,195	\$ 148,105
Investments, held for long-term purposes	1,298,508	1,417,187
TOTAL INVESTMENTS	\$ 1,458,703	\$ 1,565,292

Investment returns shown on the statement of activities are netted against investment management fees of \$10,317 (2016) and \$9,811 (2015). The investments were held for the following purposes:

TOTAL INVESTMENTS	\$ 1,458,703	\$ 1,565,292
Funds held for the benefit of others	 9,249	9,881
Annuities	45,041	50,896
University investments	80,845	100,164
Donor-restricted funds	287,757	297,129
Endowment	\$ 1,035,811	\$ 1,107,222
	2016	2015

University investments include unspent bond proceeds of \$2,551 (2016) and \$24,506 (2015) (Note 8).

#### **Endowment Funds**

The purpose of endowment funds is to generate in perpetuity revenue to support specific activities or for general institutional use. Endowments represent only those net assets that are under the control of the University. Gift annuities, interests in funds held in trust by others, and pledges designated for the endowment but not yet received are not considered components of the endowment.

The state of Ohio has enacted legislation that incorporates the provisions outlined in the Uniform Prudent Management of Institutional Funds Act ("UPMIFA"). UPMIFA stipulates that unless directed otherwise in the gift instrument, donor-restricted assets in an endowment fund are restricted assets until appropriated for expenditure by the institution. Accordingly, the following items are recorded as permanently restricted net assets:

- The original value of initial gifts donated to the permanent endowment
- The original value of subsequent gifts to the permanent endowment
- For those endowment funds with donor-specified reinvestment provisions, accumulations to the permanent endowment made in accordance with the

gift instrument at the time the accumulation is added to the fund

The remaining portion of donor-restricted endowment funds that are not classified in permanently restricted net assets is classified as temporarily restricted net assets until those amounts are appropriated and spent in accordance with the endowment purpose by the University.

#### **Similar Funds**

The University has designated certain funds to function as endowments and has co-invested as such. Donor purpose-restricted funds were not given to the University with the understanding that the gift amount would be maintained in perpetuity; these funds are classified in temporarily restricted net assets. All other Boarddesignated funds are classified in unrestricted net assets. Even though the Board has elected to treat these funds in the same fashion as an endowment fund, at its option, the Board may elect to change that treatment and spend these funds in accordance with the intentions of the donor, if any, without the constraints of the University endowment spending formula.

The breakdown of these classifications are:

	Temporarily Permanently		 То	tal					
	Unr	restricted	Res	stricted	R	estricted	2016		2015
Donor-restricted endowment funds	\$	(22,120)	\$	451,667	\$	606,264	\$ 1,035,811	\$	1,107,222
Donor purpose-restricted funds				269,484			269,484		287,188
Board-designated funds		44,809					44,809		44,764
TOTAL ENDOWMENT AND SIMILAR FUNDS	\$	22,689	\$	721,151	\$	606,264	\$ 1,350,104	\$	1,439,174

#### **Investment Pool**

The Board's interpretation of its fiduciary responsibilities for endowment and similar funds is to preserve intergenerational equity to the extent possible. This principle holds that future beneficiaries should receive at least the same level of economic support that the current generation enjoys. To that end, investment goals are formulated to earn returns over the long term that equal or exceed the Board-approved distribution rates plus the impacts of inflation. The University's endowment

and similar funds are invested in a broadly diversified portfolio designed to produce long-term rates of return that sustain or increase the real spending contribution from endowed and similar assets and to mitigate downturns in a single sector.

Unless otherwise directed in the gift instrument, both endowment and similar funds are pooled for efficient investment purposes. The pool is accounted for on a dollarized method of accounting similar to a money market fund and accounted for on an account basis. The total investment return for the pooled investments, net of external manager fees, approximated (3.45)% (2016) and 4.77% (2015).

#### **Spending Policy**

The Board has approved an endowment spending policy for pooled investments based on a hybrid formula. The objective of this two-pronged approach is to provide support for operations, preserve intergenerational equity, and insulate programming supported by endowment and similar funds from short-term fluctuations in the investment markets. The two components are:

- A constant growth component which seeks to provide growth in annual spending equal to the rate of academic inflation as measured by the Higher Education Price Index
- A market value component based on 5% of the average of the three previous calendar year-end market values

Specific appropriation for expenditure of funds under the policy occurs each spring when the Board approves the operating budget for the following year. The fiscal 2016 and 2015 pooled endowment and similar funds spending allocation approximated 4.75% and 4.88%, respectively, of beginning market value. The total amount allocated was \$65,952 and \$65,578, respectively.

While the policy provides guidance for the level of spending permitted (allocation), the actual spending will vary from the spending allocation based on the timing of actual expenditures. Funds are transferred from the investment pool to the University's operating account after they have been spent in accordance with the endowment and similar funds requirements. The actual movement of cash and investments between the investment pool and operating accounts occurs on a periodic basis as determined by the University and its processes to maintain the proper balance between liquidity and the remaining invested.

For years where actual investment return exceeds actual approved spending, the difference remains in temporarily restricted net assets; years in which the actual endowment and similar funds return is less than distributions under the policy, the shortfall is covered by realized returns from prior years. Both fiscal years 2016 and 2015 pooled endowment and similar funds distribution were funded from a combination of current year investment income and prior year accumulated realized gains.

In addition to the general distribution described above, the Board has authorized a temporary supplemental distribution of previously reinvested income and realized appreciation to support certain development-related activities. This distribution totaled \$6,000 in 2016 and \$5,900 in 2015.

Changes in endowment and similar funds net assets for fiscal year 2016 and 2015 are as follows:

			Temporarily		Pe	Permanently		То	tal	al	
			Restricted		2016		2015				
Endowment and similar funds net assets, beginning of year	\$	36,876	\$ 813,885	\$	588,413	\$	1,439,174	\$	1,380,515		
Add: Beginning balance, unrestricted Board-designated							-		37,720		
Investment income		310	7,064				7,374		45,559		
Realized and unrealized (losses) gains		(1,637)	(59,853)				(61,490)		4,922		
TOTAL INVESTMENT RETURN		(1,327)	(52,789)				(54,116)		50,481		
Contributions		4,709	8,102		18,008		30,819		38,813		
Current year withdrawals					(157)		(157)		(470)		
Current year expenditures		(3,337)	(62,279)				(65,616)		(67,885)		
Reclassification of deficits in donor-designated funds		(14,232)	14,232				-		-		
ENDOWMENT AND SIMILAR FUNDS NET ASSETS, END OF YEAR	\$	22,689	\$ 721,151	\$	606,264	\$	1,350,104	\$	1,439,174		

Occasionally, the fair market value of assets associated with individual donor-restricted endowment funds falls below the value of the original gift amounts. When deficits exist in these funds, they are classified as a reduction of unrestricted net assets. Deficits of this nature reported in unrestricted net assets were \$22,120 (2016) and \$7,888 (2015). These deficits resulted from unfavorable market fluctuations that occurred after the investment of recently established endowments and additions, and authorized appropriation that was deemed prudent.

Of the amount classified as temporarily restricted endowment net assets, \$451,667 (2016) and \$526,697 (2015) represented the portion of perpetual endowment funds subject to time and purpose restrictions under Ohio's enacted version of UPMIFA.

#### 6. FAIR VALUE MEASUREMENTS

Financial instruments carried at fair market value as of June 30, 2016 and 2015 by the ASC 820 valuation hierarchy are as follows:

June 30, 2016	Quoted Prices in Active Markets		Significant Other Observable Inputs		Significant Unobservable Inputs		Net Asset Value			<b>T</b>
INVESTMENTS	(	Level 1)	(	Level 2)	(	Level 3)		value		Total
Cash and cash equivalents	\$	12,679	\$	29,589					\$	42,268
Domestic stocks	Þ	12,679	₽	29,589 980			\$	30,060	Þ	42,268
International securities		1,511		4,752			Ψ	13,711		18,463
Global securities		54,583		3,180				136,820		194,583
Bonds		54,505		5,100				150,020		194,505
Government and municipal				6,876						6,876
Corporate				14,163						14,163
Mutual funds		321,695		5,404						327,099
Derivatives		521,055		30,211						30,211
Limited partnerships and Other				50,211						50,211
Venture capital					\$	14,852		95,450		110,302
Private equity					-	3,820		210,612		214,432
Real estate						0,010		94,416		94,416
Hedge funds				6,164				318,235		324,399
Other				42		48,755		010,200		48,797
Equity real estate						143				143
TOTAL INVESTMENTS	\$	390,468	\$	101,361	\$	67,570	\$	899,304	\$	1,458,703
FUNDS HELD IN TRUST BY OTHERS	\$	-	\$	-	\$	312,635	\$	-	\$	312,635
PENSION PLAN ASSETS										
Cash and cash equivalents	\$	99							\$	99
Mutual funds		45,225	\$	9,341						54,566
Limited partnerships and Other										
Hedge funds							\$	76,861		76,861
Equity real estate								8,272		8,272
TOTAL PENSION PLAN ASSETS (Note 9)	\$	45,324	\$	9,341	\$	-	\$	85,133	\$	139,798
ASSETS AT FAIR VALUE	\$	435,792	\$	110,702	\$	380,205	\$	984,437	\$	1,911,136
Interest rate swaps payable	\$		\$	22,555	\$		\$		\$	22,555
LIABILITIES AT FAIR VALUE	\$		\$	22,555	\$		\$		\$	22,555

15 | NOTES TO THE FINANCIAL STATEMENTS - in thousands of dollars

June 30, 2015	Quoted Prices in Active Markets (Level 1)		Significant Other Observable Inputs (Level 2)		Significant Unobservable Inputs (Level 3)		Net Asset Value		Total	
INVESTMENTS										
Cash and cash equivalents	\$	34,988	\$	4,061					\$	39,049
Domestic stocks		1,627		980			\$	42,777		45,384
International securities				5,005				18,074		23,079
Global securities								110,681		110,681
Bonds										
Government and municipal				6,922						6,922
Corporate				8,167						8,167
Mutual funds		409,311		5,439						414,750
Derivatives				38,325						38,325
Limited partnerships and Other										
Venture capital					\$	15,637		89,753		105,390
Private equity						4,127		234,468		238,595
Real estate								101,885		101,885
Hedge funds				6,464				378,768		385,232
Other				42		47,711				47,753
Equity real estate						80				80
TOTAL INVESTMENTS	\$	445,926	\$	75,405	\$	67,555	\$	976,406	\$	1,565,292
FUNDS HELD IN TRUST BY OTHERS	\$	-	\$	-	\$	336,825	\$	-	\$	336,825
PENSION PLAN ASSETS										
Cash and cash equivalents	\$	4,070							\$	4,070
Mutual funds		54,513	\$	8,432						62,945
Limited partnerships and Other										
Hedge funds							\$	80,415		80,415
Equity real estate								7,734		7,734
TOTAL PENSION PLAN ASSETS (Note 9)	\$	58,583	\$	8,432	\$	-	\$	88,149	\$	155,164
ASSETS AT FAIR VALUE	\$	504,509	\$	83,837	\$	404,380	\$	1,064,555	\$	2,057,281
Interest rate swaps payable	\$	-	\$	20,600	\$	-	\$	-	\$	20,600
LIABILITIES AT FAIR VALUE	\$	-	\$	20,600	\$	-	\$	-	\$	20,600

#### **Level 3 Investment Information**

Investments included in Level 3 consist primarily of the University's ownership in alternative investments (principally limited partnership interests in venture capital, private equity, equity real estate, real assets and other similar funds), beneficial interests in funds held in trust by others, and portions of investments in the pension assets. Level 3 investments are more difficult to value due to the following:

- The fair values of the securities held by limited partnerships that do not have readily determinable fair values are determined by the general partner based on appraisals or other estimates that require varying degrees of judgment.
- If no public market consideration exists, the fair value is determined by the general partner taking into consideration, among other things, the cost of

the securities, prices of recent significant placements of securities of the same issuer, subsequent developments concerning the companies to which the securities relate, or other estimates requiring varying degrees of judgment. The University regularly reviews, evaluates and performs significant due diligence around these investments to ensure that the values provided by the investment managers are appropriate measures of fair value. The University agrees with the valuations and assumptions used in determining the fair value of these investments.

A roll forward of the consolidated statement of financial position amounts for financial instruments classified by the University within Level 3 of the fair value hierarchy is as follows:

Other 0

June 30, 2016	\$ 14,852	\$	3,820	\$	143	\$	361,390	\$	380,205		
Settlements	(796)		(310)				(1,760)		(2,866)		
Purchases	203		53		63				319		
Unrealized (losses) gains	(191)		(50)				(22,197)		(22,438)		
Investment (loss) income	(1)						811		810		
June 30, 2015	\$ 15,637	\$	4,127	\$	80	\$	384,536	\$	404,380		
Settlements	 (837)		(310)				(1,344)		(2,491)		
Purchases	606		157				20		783		
Unrealized gains (losses)	620		161				(221)		560		
Investment income	12		3				628		643		
June 30, 2014	\$ 15,236	\$	4,116	\$	80	\$	385,453	\$	404,885		
	/enture Capital		Private Equity		quity Estate		unds Held y Others		Total		
							Other &				

The net realized and unrealized gains and losses in the table above are included in the University's consolidated statement of activities in one of two financial statement lines: *Investment (loss) income* or *Net depreciation.* In the case of pension assets, net realized and unrealized gains and losses are recognized in the financial statement line *Pension plan changes other than periodic benefit costs.* 

The pricing inputs and methods described above could produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the University believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date. The University is permitted under U.S. GAAP to estimate the fair value of an investment at the measurement date using the reported net asset value ("NAV") without further adjustment unless the entity 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's investments in domestic stocks, international securities, global securities, venture capital, private equity, real estate, and certain hedge funds in the absolute return portfolio are fair valued based on the most current NAV.

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 U.S. GAAP. The University has assessed factors including, but not limited to, managers' compliance with the Fair Value Measurement standard, price transparency at NAV at the measurement date, and existence of certain redemption restrictions at the measurement date.

The guidance also requires additional disclosures to enable users of the financial statements to understand the nature and risk of the University's investments.

The table below illustrates the fair value of the University's investments measured at NAV and the commitments that have been made for future purchases:

Catagory	Dedemotion Frequency	Redemption	-		-	Infunded
Category	Redemption Frequency	Notice Period	F	air Value	Cor	nmitments
Domestic stocks (a)	monthly, quarterly, annually	30 - 90 days	\$	30,060		
International securities (b)	monthly, quarterly	30 - 90 days		13,711		
Global securities (c)	monthly, quarterly	30 - 90 days		136,820		
Limited partnerships and Other						
Venture capital (d)				95,450	\$	33,941
Private equity (e)				210,612		91,018
Real estate (f)				94,416		47,507
Hedge funds (g)	monthly, quarterly, annually	30 - 90 days		395,096		994
Equity real estate (h)				8,272		
TOTAL			\$	984,437	\$	173,460

(a) *Domestic stocks* include funds invested in equity securities domiciled in the United States. Fund liquidity is daily, monthly, quarterly, semi-annual, annual, and up to a maximum period of three years. Approximately 96% of the net asset value is accessible within one year or less, with all funds accessible within three years.

(b) *International securities* include funds invested in equity securities domiciled in countries outside of the United States including developed and emerging markets. Approximately 100% of the net asset value is accessible within one year or less.

(c) *Global securities* include funds invested in equity securities domiciled in both Domestic stocks and International securities. Investments in this asset class have a mandate for global securities worldwide. Approximately 100% of the net asset value is accessible within one year or less.

(d) *Venture capital* includes several private equity funds that invest primarily in technology, health care or clean technology industries. While the portfolio is U.S. centric, there are small allocations to companies

in foreign markets. The funds typically provide money and resources to entrepreneurs to finance a start-up company or product, with the hope that the company experiences exceptional growth and therefore would produce a successful investment. The funds invest at different stages of a company's growth, some very early and others at a later stage where the company may already produce revenues. The valuations for these investments have been estimated using the managers' fair market values, which have been vetted to make sure they meet the ASC 820 guidelines. These investments can never be redeemed with the funds. As these investments age in duration, distributions will be received from these funds as the underlying portfolio companies are sold in the market. It is estimated that the underlying investments within the funds would be fully liquidated over the next 7-12 years.

(e) *Private equity* includes several private equity funds that invest across all industries. While the portfolio is U.S. centric, there has been an increasingly larger allocation to companies in foreign markets. The funds typically invest capital into more mature companies for a minority or majority of ownership and through operational and

asset value in this class is accessible within one year **19** | NOTES TO THE FINANCIAL STATEMENTS - *in thousands of dollars* 

financial expertise, generate a return of capital greater than the original amount invested. The valuations for these investments have been estimated using the managers' fair market values, which have been vetted to make sure they meet the ASC 820 guidelines. These investments can never be redeemed with the funds. As these investments age in duration, distributions will be received from these funds as the underlying portfolio companies are sold in the market. It is estimated that the underlying investments within the funds would be fully liquidated over the next 7-12 years.

(f) *Real estate* includes private real estate funds that invest primarily in the United States. Some of these private partnerships also make investments internationally, primarily in Europe, India and Brazil. The private funds make investments in various real estate types, such as office, industrial, retail and multi-family properties. The valuations for these investments have been estimated using the managers' fair market values, which have been vetted to make sure they meet the ASC 820 guidelines. These investments can never be redeemed with the funds. As these investments age in duration, distributions will be received from these funds as the underlying properties are sold at the market. It is estimated that the underlying investments within the funds would be fully liquidated over the next 5-7 years.

(g) *Hedge funds* include hedge fund investments across a multitude of strategies including long/short equity, long/short commodity, global macro, multi-strategy, event-driven, credit, fund of hedge funds, and emerging markets. The vast majority of these investments are U.S. based, but some may invest internationally. Investment managers may make investment decisions based on top down macroeconomic analysis or bottom up company or theme specific analysis; managers may shift portfolios from net long to net short positioning but on balance tend to carry a net long exposure within their portfolios. The estimated fair values of the investments are received on a monthly basis from the fund administrators. Final valuations are typically received around mid-month for most funds but in some instances funds will report final valuations on a guarterly basis in accordance with the reporting period specified in the fund legal documents. Fund liquidity varies across the hedge fund category from monthly, quarterly, annually, and up to a maximum period of three years. Approximately 96% of the net asset value in this class is accessible within one year or

less, with all funds accessible within three years.

(h) *Equity real estate* includes liquid real estate securities and indices domiciled in both the United States and countries outside of the United States including developed and emerging markets.

## **Derivative Information**

The use of financial derivative instruments within investment holdings is governed by the University's Investment Policy Statement, which is approved and overseen by the Investment Committee of the Board. The University assumes many risks as a result of its investment decisions and investment holdings. Many risks are discussed in the Investment Policy Statement:

*Manager risk* – the risk that a manager underperforms similar managers, benchmarks, or appropriate indices.

*Benchmark risk* – the risk of harm caused by constructing, selecting, or managing to an inappropriate benchmark.

*Peer risk* – the risk that one's peers generate better investment performance, thereby boosting the relative size of their endowments and enhancing their competitive advantage.

*Market risk* – the risk that the value of an investment will decrease due to market moves.

*Interest rate risk* – the risk that an investment's value will change due to a change in the absolute level of interest rates, the spread between two rates, the shape of the yield curve, or any other interest rate relationships.

*Concentration* – the risk of being too concentrated in one particular security, manager, strategy, sector or asset class, thus being vulnerable to poor performance stemming from lack of diversification.

*Absolute return risk* – the ability to generate positive absolute returns, not just in favorable markets, but also in uncertain and negative phases measured over a business cycle.

*Currency risk* – the risk that currency fluctuations or trends reduce the value of investments in non-U.S. markets.

*Commodity risk* – refers to the uncertainties of future market values and the size of future income caused

by fluctuation in the prices of commodities (energy, agricultural, precious and industrial metals) due to demand/supply imbalances.

*Leverage* – the risk that significant volatility or losses will be generated by the use of debt designed to magnify returns.

*Counterparty risk* – the risk that one party to a transaction does not make complete or timely payment of margin, swap cash flow, bond proceeds, or other similar payments.

*Credit risk* – the possibility that a bond issuer will default by failing to pay interest or repay principal in a timely manner.

*Tail risk* – a form of portfolio risk that arises when the possibility that an investment will move more than three standard deviations from the mean is greater than what is shown by a normal distribution.

*Liquidity risk* – the inability to sell or trade securities at fair market value within a short period of time; also, the risk that sufficient cash is not maintained, or cannot be accessed, to meet short-term obligations.

*Inflation risk* – the risk that rising prices significantly erode the effective purchasing power of the portfolio, as measured by the University's cost inflation.

*Shortfall risk* – the risk that investment returns will be lower than expected, causing a failure to accomplish investment or financial objectives.

The University seeks to mitigate these risks by using derivative transactions. At the macro level of the investment portfolio, derivative transactions also create cost-effective beta exposure that may replace a fund or investment manager, add alpha, support liquidity management, and reduce the impact of extreme negative market conditions. The derivative instruments used include futures, total return swaps, and over-the-counter options.

**Futures:** An Equity Index Future is a standardized obligation to buy or sell a market index, at a certain date in the future (settlement date), at a specified price (futures price). Equity Index Futures are typically cashsettled. Trading Medium: Exchange A single clearing house (e.g., Options Clearing Corporation, for the Chicago Board Options Exchange) is the counterparty to both parties involved in the contract. Futures trade a premium or discount to the cash index level based on the following theoretical formula: Futures Fair Value = Cash Index Value + Expected Interest Income prior to contract expiry – Expected Dividend Income prior to contract expiry - Expected Lending Income prior to contract expiration. The value of a futures contract converges to that of the underlying index at expiration. The investor posts an initial margin and a maintenance margin which represents a small portion of the overall notional value (usually 12%-18% of the notional value). Collateral between the counterparties is exchanged daily based on the mark to market performance of the futures contract. Used primarily as a manager replacement strategy to gain beta exposure to an index on the long side and to hedge out beta exposure on the short side.

Total Return Swaps ("TRS"): A TRS is a nonstandardized agreement whereby one party makes periodic cash payments based on a set rate (e.g., London Interbank Offered Rate ("LIBOR")) while another party makes periodic cash payments based on the total return of an underlying index. The total return payer agrees to pay the total return of the underlying index to the total return receiver. The total return receiver agrees to receive future total return, and pay periodic payments to the total return payer. Trading Medium: Over-The-Counter ("OTC"). TRS offer synthetic exposure to beta returns while avoiding the transaction and administrative costs of owning the actual underlying equity shares. TRS are subject to counterparty credit risk; if collateral is posted between parties, counterparty credit risk can be mitigated. Transacted via agreement between counterparties. There is no initial or maintenance margin posting. Collateral between the counterparties is exchanged daily based on the mark to market performance of the swap. Used to gain beta exposure to an index on the long side and to hedge out beta exposure on the short side. The swap resets on a periodic basis (monthly, quarterly, or annually), at which point the LIBOR rate is reset and the gains/losses cash settled. A new notional value reflecting the settled gains/losses is established at this point. The next measurement begins with the new notional value. There may be a breakup fee if the swap is terminated earlier than its expiration date. Used primarily as a manager replacement strategy.

**Options:** Options or Option Structures are nonstandardized agreements whereby one party makes or receives one payment at the time of initial transaction to/ from a counterparty and may make or receive a second payment to/from the counterparty at the expiration date of the agreement based on an individual option or a combination of individual options. Trading Medium: OTC. Transacted via ISDA/CSA agreement between counterparties. Options are subject to counterparty credit risk; if collateral is posted between parties, counterparty credit risk can be mitigated. Options/ Option Structures allow investors to customize the risk/return profile of existing portfolios. For example: Investors who are underweight equities and have a moderately positive outlook can obtain enhanced equity exposure by capping returns with or without a leveraged payoff. More bearish investors can opt for downside protection to reduce risk. Collateral between the counterparties is exchanged daily based on the mark to market performance of the Option or Option Structure. At maturity the Option or Option Structure is cash settled. Prior to maturity, Options/Option Structures may trade above or below their intrinsic value due to various factors such as time, volatility, interest rates, skew, delta, gamma, etc. The value eventually converges to intrinsic value at maturity. Used for beta replacement strategies, alpha strategies or hedging strategies.

**Swaptions:** Swaptions are a specific type of Option which gives the buyer the right, but not the obligation, to enter into a specified swap agreement with the

counterparty on a specified future day.

Forward contracts: A forward contract is an agreement to buy or sell an asset at a certain future time for a certain price. A forward contract is traded in the OTC market - usually between two financial institutions or a financial institution and a client. One party assumes a long position and agrees to buy the underlying asset on a certain date for a certain price. The other party assumes a short position and agrees to sell the underlying asset on a certain date for a certain price. The price in a forward contract is known as the delivery price. Forward contracts are commonly used to hedge foreign currency risk. Payoff for a long position on a forward contract is St – K where K is the delivery price and St is the spot price at maturity of the contract. Similarly the payoff on a short position in a forward contract is K – St. Settlement of forward contracts can be made with delivery of the underlying or cash settlement. Since the contract is OTC, margin and collateral are determined by individual agreements and sometimes fall under the agreement.

The following table provides detailed information on the derivatives included in the investment portfolio as of June 30 and where they are located in the consolidated statements of financial position:

						2016	
		Ν	lotional	Level 1 Fair	Le	vel 2 Fair	Level 3 Fair
Location	Derivative Type	A	mount	ount Value Value		Value	Value
Investments, held for long-term purposes							
	Total return swaps	\$	267,392		\$	26,965	
	Options (over-the-counter)		5,344			(419)	
	Futures contracts		18,300			3,403	
	Forward contracts					6	
	Interest rate hedges					195	
	Yield curve hedges		457,318			61	
TOTAL DERIVATIVES, 2016				\$-	\$	30,211	\$-

			2015		
		Notional	Level 1 Fair	Level 2 Fair	Level 3 Fair
Location	Derivative Type	Amount	Value	Value	Value
Investments, held for long-term purposes					
	Total return swaps	\$ 288,601		\$ 33,519	
	Options (over-the-counter)			(230)	
	Futures contracts	20,234		4,872	
	Forward contracts			(5)	
	Interest rate hedges			216	
	Yield curve hedges	332,069		(47)	
TOTAL DERIVATIVES, 2015			\$-	\$ 38,325	\$-

The following table provides detailed information on the effect the derivatives had on the overall performance

of the investment portfolio which is reflected in the consolidated statement of activities:

Location	Derivative Type	2016	2015
Net effect on investment (loss) incom	e		
	Total return swaps	\$ (7,838)	\$ 14,020
	Options (over-the-counter)		7,519
	Futures contracts	(1,260)	
	Interest rate hedges	(1,172)	152
	Yield curve hedges	(54)	208
		\$ (10,324)	\$ 21,899
Net depreciation			
	Total return swaps	(7,063)	1,291
	Options (over-the-counter)	344	
	Futures contracts	256	(959)
	Interest rate hedges	(3,614)	(267)
	Yield curve hedges	(902)	248
		\$ (10,979)	\$ 313
NET EFFECT OF DERIVATIVES		\$ (21,303)	\$ 22,212

Property, plant, equipment and books are stated at cost, less accumulated depreciation. Depreciation is computed on the straight-line method over the estimated useful life of 10 to 30 years for land improvements, 10 to 50 years for building and building improvements, 5 to 15 years for equipment, and 10 years for books. Components of property, plant, equipment and books are as follows:

	2016	2015
Land and land improvements	\$ 59,573	\$ 56,099
Building and building improvements	1,306,922	1,222,821
Equipment and software	297,112	275,034
Library books	42,817	40,566
Construction-in-progress	48,467	86,361
	1,754,891	1,680,881
Less: Accumulated depreciation	(978,574)	(914,787)
TOTAL PROPERTY, PLANT, EQUIPMENT AND BOOKS, NET	\$ 776,317	\$ 766,094

The above assets include \$505,829 leased from the Ohio Higher Educational Facility Commission ("OHEFC"). The University may purchase each of the leased assets for a nominal amount at the end of the lease period. Therefore, these assets have been capitalized and are included in the above listing. The corresponding liability is included in *Notes and bonds payable* on the consolidated statements of financial position. Capitalized interest added to construction-in-progress was \$522 (2016) and \$430 (2015). The expected cost to complete construction-in-progress is approximately \$36,219.

Depreciation expense included in the consolidated statement of activities is \$69,146 (2016) and \$64,240 (2015).

#### 8. NOTES AND BONDS PAYABLE

Notes and bonds payable are as follows:

			Maturity		
		Interest Rate(s)	(Calendar Year)	2016	 2015
OHEFC revenue notes and bonds:	Series 1990	6.50%	2016-2020	\$ 9,630	\$ 11,650
	Series 1994	6.25%	2016-2018	12,995	16,500
	Series 2001A	0.03%	2016		10,605
	Series 2002A	0.03%	2016		64,875
	Series 2006	4.00 - 5.25%	2016-2044	76,735	78,330
	Series 2008A	0.10%	2030-2044	60,000	60,000
	Series 2008C	4.00 - 5.25%	2016-2033	44,640	47,805
	Series 2012A	2.00 - 5.00%	2016-2023	25,820	26,680
	Series 2013A	3.00 - 5.00%	2016-2023	36,130	39,180
	Series 2014A	0.65%	2030-2044	67,500	67,500
	Series 2015A	2.00 - 5.38%	2016-2034	50,400	51,630
	Series 2015B	0.52%	2016-2030	74,780	
OHEFC commercial paper		0.09 - 0.17%	2030	68,110	68,939
Compass Group USA, Inc.		-n/a-	2016-2019	863	1,162
TOTAL LIABILITY				\$ 527,603	\$ 544,856
Line of credit				33,000	20,000
Unamortized bond premium				15,687	18,463
TOTAL NOTES AND BONDS PAYAB	LE			\$ 576,290	\$ 583,319

23 | NOTES TO THE FINANCIAL STATEMENTS - in thousands of dollars

The fair market value of the University's notes and bonds payable is approximately \$588,334 (2016) and \$594,067 (2015) and is considered Level 2 financial instruments as defined by the ASC 820 valuation hierarchy. These values were estimated utilizing the discounted future cash outflows at rates for similar debt.

In February 2015, the OHEFC Series 2015A bonds were issued to finance the construction of the new residence hall in the amount of \$37,240 and to refinance the Housing and Urban Development Part A and Part B loans ("HUD") in the amount of \$7,919, with the remaining proceeds in the amount of \$6,471 funding capital projects. The total amount of the bond issue was \$51,630. Deferred financing fees of \$707 were paid and the unamortized balance is included in *Prepaid expenses and other assets.* In addition, the remaining balance of the HUD loans was paid off in March 2015.

In July 2015, the OHEFC Series 2015B bonds were issued to refinance the balance of the OHEFC Series 2001A bonds in the amount of \$10,605 and the OHEFC Series 2002A bonds in the amount of \$64,875. The total amount of the bond issue was \$75,480. The financing fees of \$172 were not included in the refinancing and were expensed.

The amount outstanding under the OHEFC tax-exempt commercial paper program to provide construction funds for several approved capital projects was \$68,110 (2016) and \$68,939 (2015), with maturities not exceeding 270 days from the issuance date. In August 2014, \$5,000 was drawn to provide bridge financing for the new residence hall. Principal was paid down in the amount of \$829 (2016) and \$15,061 (2015). All commercial paper issued under the terms of the program must mature no later than February 1, 2030. The annualized interest cost and credit facility expense for this program was 0.73% (2016) and 0.63% (2015). The University has revolving lines of credit with two financial institutions in the amount of \$70,000 to finance working capital. The \$30,000 line is subject to annual review and renewal, and the \$40,000 line is subject to renewal in December 2017. The amount outstanding was \$33,000 (2016) and \$20,000 (2015).

Principal payment requirements for bonds, notes, and capital lease obligations for the next five fiscal years and thereafter are as follows:

			Ou	tstanding		Total
	Scheduled		VR	DOs and	Μ	aximum
	Principal		Co	Commercial		rincipal
Year	Payments			Paper		ayments
2017	\$	15,385	\$	20,000	\$	35,385
2018		31,095		20,000		51,095
2019		16,243		80,000		96,243
2020		16,540				16,540
2021		16,640		8,110		24,750
Thereafter		431,700		(128,110)		303,590
TOTAL	\$	527,603	\$	-	\$	527,603

The University has letter of credit agreements, standby bond purchase agreements, and liquidity agreements with various financial institutions to purchase the University's variable rate demand obligations ("VRDOs") and commercial paper if they cannot be remarketed. Outstanding VRDOs in the above table represent amounts payable in the event that bonds are tendered but not successfully remarketed.

Interest expense, including those amounts for interest rate swap agreements (Note 12), was \$19,609 (2016) and \$18,637 (2015).

Certain borrowing agreements require that the University comply with certain covenants. The University is in compliance with these provisions as of June 30, 2016. The University has both defined benefit and defined contribution pension plans for its employees. In accordance with provisions of the Employee Retirement Income Security Act of 1974, the University has established a trust to hold plan assets for its defined benefit plan. The funded status of the University's defined benefit plan is as follows:

	2016	2015
Benefit obligation at June 30	\$ 253,314	\$ 223,119
Fair value of plan assets at June 30	139,798	155,164
FUNDED STATUS AT JUNE 30	\$ (113,516)	\$ (67,955)

Benefit plan costs for the defined benefit plan are as follows:

	2016	2015
Net periodic benefit cost	\$ 9,852	\$ 8,004
Employer contributions	6,770	10,445
Benefits paid	14,336	5,632

Estimated benefits expected to be paid under the defined benefit plan for the next five fiscal years are as follows:

2017	\$ 5,637
2018	6,126
2019	6,649
2020	7,308
2021	7,632

Amounts expected to be paid between 2022 and 2026 total \$50,976. The University's estimated employer contribution for the defined benefit plan in fiscal 2017 will depend on the results of the July 1, 2016 actuarial valuation and is estimated to be \$16,689.

Weighted-average assumptions used to determine the benefit obligation and benefit plan costs are as follows:

	2016	2015
BENEFIT OBLIGATION		
Discount rate	3.90%	4.75%
Rate of compensation increase	2.25%	2.25%
Measurement date	6/30/16	6/30/15
Census date	7/1/15	7/1/14
NET PERIODIC BENEFIT COST		
Discount rate	4.75%	4.75%
Expected return on plan assets	8.50%	8.50%
Rate of compensation increase	2.25%	2.25%

The expected long-term rate of return for the defined benefit plan was estimated using market benchmarks for equities and bonds applied to the plan's target asset allocation. Management estimated the rate by which the plan assets would outperform the market in the future based on historical experience adjusted for changes in asset allocation and expectations compared to past periods.

The investment objective for the defined benefit plan is to maximize total return with tolerance for slightly above average risk, in order to meet the obligations that the University has to its plan beneficiaries. To accomplish this objective, the University has established a broadlydiversified asset allocation strategy that includes absolute return strategies (combination of fixed income and equity securities) (50%), equity investments (30%), bonds and cash (16%), and real estate (4%). The weightings of the investments relative to each other in the total portfolio fluctuate as market conditions vary; they are adjusted regularly to remain within acceptable ranges.

The weighted-average asset allocation for the defined benefit plan is as follows:

	2016	2015
Equity securities	28%	31%
Fixed income securities	11%	12%
Real estate	6%	5%
Other	55%	52%
TOTAL ASSET ALLOCATION	100%	100%

The amounts recognized in the University's consolidated statements of financial position and in unrestricted net assets related to the defined benefit plan are as follows:

		2016	2015
NET LIABILITY	\$ (	113,516)	\$ (67,955)
UNRESTRICTED NET ASSETS			
Actuarial losses		120,798	78,318
AMOUNT RECOGNIZED AS REDUCTION OF UNRESTRICTED NET ASSETS	\$	120,798	\$ 78,318

The estimated amortization of prior year service costs expected in fiscal 2017 totals \$6,641. Components of the net periodic benefit cost and other changes in plan assets that are recognized in the consolidated statement of activities are as follows:

	2016	2015
Change in actuarial losses	\$ 42,480	\$ 14,555
TOTAL LOSS RECOGNIZED, UNRESTRICTED NET ASSETS	42,480	14,555
Service cost	8,511	6,840
Interest cost	10,855	9,901
Expected return on assets	(13,903)	(12,821)
Net loss amortization	4,389	4,084
Net periodic benefit cost	9,852	8,004
TOTAL LOSS RECOGNIZED, STATEMENT OF ACTIVITIES	\$ 52,332	\$ 22,559

#### 10. COMMITMENTS AND CONTINGENCIES

In its normal operations, the University is subject to various claims and lawsuits. In management's opinion, the resolution of these contingencies will not have a significant adverse effect on the University's financial position, operations, or cash flows.

In May 2002, the University entered into an agreement with the Cleveland Clinic Foundation ("CCF") to form a new medical education and research program, the Cleveland Clinic Lerner College of Medicine ("CCLCM"). Beginning in 2004, research grants from the National Institutes of Health to support work by CCF-based investigators were awarded to and administered through the University by CCLCM, which operates as an academic unit of the School of Medicine. Expenditures for research conducted under this joint agreement totaled \$92,112 (2016) and \$81,192 (2015).

In April 2006, the Boards of University Hospitals Health System and the University approved an affiliation agreement between the School of Medicine During fiscal 2015, the Board approved a change to the defined benefit plan with an effective date of June 30, 2015. The University elected to close the plan to new entrants. Employees hired prior to July 1, 2015 may enter and continue to participate in the defined benefit plan.

During fiscal 2016, the Board approved of certain derisking efforts by the University related to the defined benefit plan in which certain eligible participants, who are non-current employees, were offered lump-sum payouts. The payouts to the eligible participants of \$9,055, who elected to receive this lump-sum value, were completed by June 30, 2016.

Benefit plan costs for the defined contribution plans are \$21,024 (2016) and \$20,364 (2015).

and University Hospitals of Cleveland ("UHC"). This agreement created the Case Medical Center, a virtual entity that encompasses certain teaching, research, and clinical activities of the School of Medicine and UHC. In September 2016, the affiliation agreement was renewed with the exception of the Case Medical Center designation. Even though the virtual entity will be dissolved, there will be continued collaboration in education and research.

During 2013, the University entered into a joint purchase agreement with the Cleveland Museum of Art to purchase real property from the Cleveland Institute of Art. The University's commitment was \$4,600 with \$505 placed as an earnest deposit as of June 30, 2015. In September 2015, the University paid the remainder of its commitment. The investment in the property is shown on the consolidated statements of financial position in *Prepaid expenses and other assets* as of June 30, 2016.

The University is self-insured for workers compensation

and employee and student medical coverage. Property is commercially insured with an aggregate deductible of \$700. The University also carries general liability insurance with a deductible of \$100 per occurrence. The University believes its reserves for self-insured risks and the deductible portion of insured risks are sufficient.

#### 11. RELATED PARTY TRANSACTIONS

In 1998, the University entered into a thirty-year agreement with the Medical Center Company (a cooperative utility company formed by and serving institutions in the University Circle area) to purchase steam, chilled water, and other utilities for several University buildings. The amounts purchased were \$19,599 (2016) and \$19,382 (2015). No obligation associated with this agreement is recorded in the accompanying consolidated financial statements.

In July 2012, the University received an energy efficiency grant from the Medical Center Company in the amount of \$998. The grant required a capital contribution of

\$267 from the University and payback of a portion of projected energy cost savings. Payback terms are 36 months beginning January 2014. The obligation recorded in *Deferred income and other liabilities* is \$252 (2016) and \$543 (2015).

In August 2015, the Medical Center Company approved an additional energy efficiency grant in the amount of \$829. The project costs incurred totaled \$86 as of June 30, 2016. The payback terms related to this project are 36 months beginning March 2016. The obligation related to this project recorded in *Deferred income and other liabilities* is \$76 (2016).

#### 12. DERIVATIVES

The University uses floating-to-fixed interest rate swap agreements of various durations to manage both its funding cost and the interest rate risk associated with variable rate debt. Under these swap agreements, the University pays a fixed rate and receives from its counterparty a variable rate payment, each calculated by reference to specified notional principal amounts during the agreement period. Operations are charged the variable rate interest on the corresponding bonds; the difference between the fixed and variable interest amounts under the swap agreements is recorded in nonoperating activities as *Investment (loss) income*.

The University follows accounting guidance that defines fair value, establishes a framework for measuring fair value, and expands disclosure requirements about fair value measurements, including derivatives. The University's interest rate swaps are valued by an independent swap consultant that uses the midmarket levels, as of the close of business, to value the agreements. The valuations provided are derived from proprietary models based upon well-recognized financial principles and reasonable estimates about relevant future market conditions and the University's credit worthiness. The University's interest rate swap arrangements have inputs that can generally be corroborated by market data and are classified as Level 2 in the fair value hierarchy.

Under one agreement in effect at June 30, 2016, the counterparty pays the University a variable interest rate equal to the Securities Industry and Financial Markets Association ("SIFMA") index, and under four other agreements, the counterparty pays a variable interest rate equal to a percentage of the one month LIBOR.

The following table provides detailed information on the interest rate swaps at June 30, 2016, with comparative fair values for June 30, 2015. Information related to the interest rate swap agreements and the liability recognized in the consolidated statements of financial position in *Deferred income and other liabilities* are as follows:

1	Notional					 2016		2015
/	Amount	Interest Rate	Commencement	Termination Date	Basis	Level 2 Fair N	Market	Value
\$	18,875	4.34%	Aug. 12, 2004	Oct.1, 2022	LIBOR	\$ (1,565)	\$	(1,541)
	15,000	4.43%	Jun. 5, 2002	Jun. 5, 2022	LIBOR	(3,248)		(2,943)
	15,000	3.60%	Sept. 25, 2002	Sept. 25, 2022	LIBOR	(2,637)		(2,202)
	35,000	3.81%	Aug. 4, 2004	Aug. 1, 2034	LIBOR	(13,375)		(9,029)
	100,000	3.37%	Jan. 3, 2012	Jan. 1, 2017	SIFMA	(1,730)		(4,885)
TOT	TAL INTEREST	RATE SWAP AGRI	EEMENT LIABILITY			\$ (22,555)	\$	(20,600)

Changes in the fair value of derivative instruments are recorded in non-operating activities as *Investment (loss) income.* The provisions of the swap agreements require that on a weekly basis the University place into an escrow fund collateral sufficient to limit the counter-party's financial exposure to the University to no more than \$20,000.

The University had placed \$5,231 (2016) and \$2,144 (2015) into such a fund, which is shown in *Cash and cash equivalents* on the consolidated statements of financial position.

Interest expense recorded for the swap agreements in the non-operating activities for the year ended June 30 was \$6,086 (2016) and \$6,220 (2015).

#### 13. RESTRICTED NET ASSETS

The University's restricted net assets as of June 30 were as follows:

	mporarily estricted	ermanently Restricted	2016	2015
Endowment				
True Endowment	\$ 451,667	\$ 606,264	\$ 1,057,931	\$ 1,115,110
Funds functioning as endowment (FFE)	269,484		269,484	287,188
Total True endowment and FFE	 721,151	606,264	1,327,415	1,402,298
Funds held in trust by others		312,635	312,635	336,825
TOTAL UNIVERSITY ENDOWMENT	\$ 721,151	\$ 918,899	\$ 1,640,050	\$ 1,739,123
Other net assets				
Pledges receivable	73,575	30,898	104,473	90,377
Funds held in trust by others, unused income	6,268		6,268	5,307
Student loan funds		36,629	36,629	36,201
Split-interest agreements		16,112	16,112	15,630
Purpose restricted gifts	115,191	6,548	121,739	83,999
TOTAL NET ASSETS	\$ 916,185	\$ 1,009,086	\$ 1,925,271	\$ 1,970,637

#### 14. SUBSEQUENT EVENTS

The University has performed an evaluation of subsequent events through October 8, 2016, the date on which the consolidated financial statements were issued.

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Research and Development Cluster – University				
Research and Development – University				
Department of Agriculture				
Pass Through Programs				
Texas A&M University	10.219	06-S160607	\$ 55,923	\$ -
Wholesome Wave Foundation Charitable Ventures, Inc.	10.331	2015-70018-23350	27,783	-
Department of Agricultu	re Subtotal		83,706	
Department of Defense				
Direct Programs				
Research and Development	12		1,944,029	661,49
Basic and Applied Scientific Research	12.300		1,175,487	-
Basic Scientific Research - Combating Weapons of Mass Destruction	12.351		385,567	195,5
Military Medical Research and Development	12.420		3,937,799	606,8
Basic Scientific Research-ARRA	12.431		146,164	96,9
Air Force Defense Research Sciences Program	12.800		3,200,555	1,508,5
Research & Technology Development	12.910		275,448	-
Pass Through Programs	10	DEE2012 + D227 +	(210)	
Black Forest Engineering	12	BFE2012AR327A	(210)	-
Connecticut Analytical Corporation Princeton Plasma Physics Lab	12 12	W31P4Q13C0073 S-013864-W	13,071 23,315	-
SelectTech Services Corporation	12	6159-05-1727	11,386	-
American Lightweight Materials Manufacturing Innovation Institute (ALMMII)		0139-05-1727 0003B-4	145,515	-
University of Virginia		GG11485-138899	(9,692)	
Cleveland Veteran's Administration Medical Research and Education Foundation		Bogie-VA001DOD	54,632	_
Johns Hopkins University		W81XWH1020090	269,176	-
Miami University		W81XWH-15-1-0079 (664845)	19,987	-
Stanford University		CRE00047-01	6,937	-
University of Pittsburgh		0027150 (408007-1)	231,278	-
Wake Forest University		WFUHS 441073C CF-03	46,777	-
Fisk University	12.630	W911NF-13-1-0153	67,370	-
Norfolk State University	12.630	W911NF-11-1-0209	57,942	-
National Additive Manufacturing Innovation Institute	12.800	FA8650-12-2-7230	300,437	139,6
RTI International Metals, Inc.	12.800	FA8650-15-2-5200 AO-43	146,909	-
University of Washington	12.800	7637699	219,261	-
Celgene Cellular Therapeutics	12.910	HR0011-12-2-0015	(137)	-
Johns Hopkins University		2001175091	(4,105)	-
MacDonald Environmental Sciences Ltd.		MESL (Watanabe)	(81)	-
University of Maryland		Z923801	103,774	-
University of Virginia	12.910	GG11379-136861	(400)	-
Department of Defen	se Subtotal		12,768,191	3,209,05

The accompanying notes are an integral part of the schedule.

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Department of Housing and Urban Development				
Direct Programs				
General Research and Technology Activity	14.506		73,358	-
Healthy Homes Technical Studies Grants	14.906		93,221	11,4
Pass Through Programs				
MDRC	14.536	H-21668CA	45,100	-
Department of Housing and Urban Develo	pment Subtotal		211,679	11,4
Department of the Interior				
Direct Programs				
Science and Technology Projects Related to Coal Mining and Reclamation	15.255		(1,647)	-
Pass Through Programs				
University of Southern California	15.808	51147674	6,188	-
Department of the In	iterior Subtotal		4,541	
Department of Justice				
Pass Through Programs				
Domestic Violence and Child Advocacy Center, Cuyahoga County, Ohio	16.590	2014-HI-AX-K003	7,890	-
Center for Court Innovations	16.738	2015-DP-BX-K007	7,813	-
Alcohol, Drug & Mental Health Board of Franklin County, Ohio	16.745	B13024-A	(1,572)	-
California State University	16.818	2015-CV-BX-0001	36,918	-
Department of J	Justice Subtotal		51,049	-
National Aeronautics and Space Administration				
Direct Programs				
Research and Development	43		22,004	-
Aerospace Education Services Program	43.001		682,176	43,9
Technology Transfer	43.002		59,883	-
Exploration	43.003		577,915	-
Space Operations	43.007		151,747	-
Education	43.008		43,570	-
Cross Agency Support	43.009		55,453	-
Pass Through Programs				
Universities Space Research Association	43	04550-001	(4,936)	-
Universities Space Research Association	43	04555-004	1,372,086	-
Jet Propulsion Laboratory	43	1525377	39,314	-
Jet Propulsion Laboratory	43	1527498	139,468	31,5
Materials Answers, LLC		NNX14CL25P	3,962	-
Princeton University		00002045	332,308	-
National Aeronautics and Space Administ	ration Subtotal		3,474,950	75,4

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
	CT D.1	Sponsor Aumor	Lipenaitares	sus recipients
National Science Foundation				
Direct Programs				
Engineering Grants	47.041		2,113,309	129,80
Mathematical & Physical Sciences	47.049		6,836,298	1,019,44
Geosciences	47.050		209,313	-
Computer and Information Science & Engineering	47.070		815,248	4,19
Biological Sciences	47.074		1,589,684	-
Social, Behavioral and Economic Sciences	47.075		55,083	-
Education and Human Resources	47.076		183,368	94
International Science and Engineering (OISE)	47.079		734,366	283,41
Office of Cyberinfrastructure	47.080		(180)	-
Trans-NSF Recovery Act Research Support-ARRA	47.082		8,827	-
Pass Through Programs				
PolymerPlus LLC	47.041	POLYMERPLUS	9	-
PolymerPlus LLC	47.041	PolymerPlus (IIP-1534063)	40,358	-
University of California, Davis		201222382-01	34,444	-
University of Michigan		3002527784	132,892	-
University of Chicago		FP052668	258,869	-
Rehabilitation Institute Research Corp.		PRIME CNS-0932263	39,944	-
University of Connecticut		104887	32,008	-
University of Denver		SC37033A-01-00	29,770	-
National Science Found	lation Subtotal		13,113,610	1,437,79
Environmental Protection Agency				
Direct Programs				
P3 Award: National Student Design Competition for Sustainability	66.516		32,638	-
Environmental Education Grants	66.951		1,520	-
Pass Through Programs				
Ohio Lake Erie Commission	66	LECFGLR14	12,650	-
Environmental Protection A	gency Subtotal		46,808	-
Department of Energy				
Direct Programs				
Research and Development	81		5,744	-
Office of Science Financial Assistance Program	81.049		1,093,449	-
Conservation Research and Development	81.086		394,140	103,84
Renewable Energy Research and Development	81.087		399,943	117,9
Fossil Energy Research and Development	81.089		459,937	-
Stewardship Science Grant Program	81.112		326,185	-
Advanced Research and Projects Agency Energy Financial Assistance Program	81.135		1,258,568	

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Pass Through Programs				
Battelle Energy Alliance, LLC	81	128081	111,316	55,604
Los Alamos National Security, LLC	81	336766 Agmt. #338686	75,000	-
PolymerPlus, LLC	81.086	PolymerPlus(DE-EE0007211)	76,706	-
Bay Area Photovoltaic Consortium		60220829-51077-T	119,966	-
LEEDCo, Inc.	81.087	LEEDCOINC	92,495	-
LG Fuel Cell Systems Inc.	81.087	DE-FE0012077	43,792	-
Underwriters Laboratory, Inc.	81.087	7202040440	88,707	-
Department	of Energy Subtotal		4,545,948	277,429
Department of Education				
Pass Through Programs				
Cincinnati Children's Hospital Medical Center	84.133	B090010 (107354)	(3,050)	-
Department of	Education Subtotal		(3,050)	-
Department of Health & Human Services				
Administration for Children and Families				
Direct Programs				
Child Abuse and Neglect Discretionary Activities	93.670		116,795	-
Administration for Community Living				
Pass Through Programs				
Children's Hospital Medical Center	93.433	136239	28,727	-
Agency for Healthcare Research and Quality				
Direct Programs				
Research on Healthcare Costs, Quality and Outcomes	93.226		411,765	30,138
Pass Through Programs				
Cincinnati Children's Hospital		130341	362	-
Cleveland Clinic Foundation	93.226	HS024277 (659-SUB)	16,443	-
Harvard University		HS021636-01 (HARVARD)	18,555	-
Mount Sinai Medical Center		HS020518 (0254-5694-4609)	148,491	-
Oregon Health and Science University		HS (1005864_CaseWestern)	43,404	-
Rhode Island Hospital	93.226	701-713-7041-ОН	64,156	-
Centers for Disease Control and Prevention				
Direct Programs				
Research and Development	93		1,071,591	22,159
Centers for Research and Demonstration for Health Promotion and Disease Prevent			1,374,367	5,334
Centers for Disease Control and Prevention Investigations and Technical Assistance	93.283		2,941,237	-
Pass Through Programs				
Ohio Department of Health		FAM-32995-01	(368)	-
Hemophilia Foundation of Michigan		ATH(CDC14-15-HTC443)	20,723	-
University of Oklahoma		OH(RS20140600-01)	55,780	-
Central Brain Tumor Registry of the Unit		DP003831 (CWRU02)	24,369	-
Cuyahoga County Board of Health	93.738	REACH CCBH (Trapl)	558,850	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipient
YMCA of Greater Cleveland	93.738	REACH YMCA	96,650	-
Ohio Department of Health		ODH (FREEDMAN)	17,447	-
Cuyahoga County Board of Health		CCBH (TRAPL)	82,080	-
Cincinnati Children's Hospital		DP005361 (134940)	2,714	-
Food and Drug Administration			<b>*</b>	
Direct Programs				
Food and Drug Administration Research	93.103		109,180	
Iealth Resources and Services Administration				
Direct Programs				
Maternal and Child Health Federal Consolidated Programs	93.110		153,016	61,4
Grants to Increase Organ Donations	93.134		371,975	68,4
Pass Through Programs				
American Academy of Pediatrics	93.110	6636-99951-731100	51,008	
Children's Hospital of Philadelphia	93.110	MC20218-05 (320896)	2,256	
City of Cleveland	93.926	CT5005SG 2015-107	90,618	
City of Cleveland	93.926	CT5005 SG 2016-75	21,729	
Cleveland Clinic Foundation	93.110	407-SUB; 505-SUB; 600-SUB	61,677	
Genetic Alliance	93.110	MC16509-05-05 (Genetic A)	32,107	
Hemophilia Foundation of Michigan	93.110	1-H30MC24047-01-00	12,425	
Northeast Ohio Medical University	93.884	HP20645 (NEOMED)	1,425	
National Institutes of Health				
Direct Programs				
Research and Development	93		2,972,677	997,
Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077		195,647	
Environmental Health	93.113		87,165	
Oral Diseases & Disorder Research	93.121		4,093,912	464,
Human Genome Research	93.172		719,689	163,
Research Related to Deafness & Communications Disorders	93.173		2,645,711	
Research and Training in Complementary and Integrative Health	93.213		567,316	130,
National Center on Sleep Disorders Research	93.233		19,437	
Mental Health Research Grants	93.242		2,199,983	324,
Alcohol Research Programs	93.273		354,376	
Drug Abuse and Addiction Research Programs	93.279		2,697,616	397,
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286		5,205,233	223,
Minority Health and Health Disparities Research	93.307		1,243,932	284,
Trans-NIH Research Support	93.310		986,643	72,
National Center for Advancing Translational Sciences	93.350		12,418,224	15,
Research Infrastructure Programs	93.351		68,445	
Nursing Research	93.361		2,100,357	162,
National Center for Research Resources	93.389		13	
Cancer Cause & Prevention Research	93.393		2,006,937	
Cancer Detection and Diagnosis Research	93.394		4,694,448	507,
Cancer Treatment Research	93.395		1,989,963	43,
Cancer Biology Research	93.396		4,406,639	219,
Cancer Centers Support Grants	93.397		6,951,608	22,

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Cancer Research Manpower	93.398		748,369	-
Cancer Control	93.399		1,589,741	547,94
Trans-NIH Recovery Act Research Support-ARRA	93.701		(8,096)	-
Cardiovascular Diseases Research	93.837		11,307,763	296,98
Lung Diseases Research	93.838		3,438,309	1,044,68
Blood Diseases and Resources Research	93.839		892,465	160,89
Arthritis, Musculoskeletal, and Skin Diseases Research	93.846		4,321,773	388,9
Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847		16,945,848	6,156,52
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853		12,099,160	1,357,98
Allergy, Immunology and Transplantation Research	93.855		17,631,297	3,651,1
Biomedical Research and Research Training	93.859		8,161,759	237,59
Child Health and Human Development Extramural Research	93.865		4,537,188	373,00
Aging Research	93.866		1,126,562	14,42
Vision Research	93.867		9,949,550	1,314,34
Medical Library Assistance	93.879		341,041	-
ass Through Programs				
Clinical Research Management, Inc.	93	CWRU-08-01	(2,641)	-
Columbus NanoWorks, Inc.	93	HHSN268201500011C	15,971	-
Duke Clinical Research Institute	93	201316	3,578	-
Duke Clinical Research Institute	93	12012000061 (199651)	57,098	-
Duke University	93	HHSN (178785)	629	-
·	93	SSS-S-13-003466		-
Social and Scientific Systems, Inc.	93		(35,120)	-
Social and Scientific Systems, Inc.		CRB-SSS-S-15-004283	1,660	-
The Ohio State University	93	HHSN (60033339)	59,998	-
University of Alabama	93	HHSN272201100037C	7,997	-
University of Alabama	93	HHSN272201100038C	367	-
University of Alabama	93	000406291-001	20,747	-
Washington University	93	HHSN (WU-15-217)	188,945	-
University of Michigan		DE (3003724044)	22,769	-
Wright State University	93.121	P0037005 (DE024732)	40,316	-
University of Cape Town	93.172	HG008226 (Cape Town)	9,278	-
Vanderbilt University	93.172	HG006857 (VUMC 43957)	28,859	-
Massachusetts Eye and Ear Infirmary	93.173	EY022305 (ME&EI)	61,089	-
University of Michigan	93.173	DC009410 (3002992709)	82,707	-
Vulintus, LLC	93.173	Vulintus (DC013467)	8,924	-
The Ohio State University	93.213	AT004454 (60033066)	276,021	-
Cleveland Clinic Foundation	93.233	204-SUBI/245-SUBI	75,837	-
Cincinnati Children's Hospital	93.242	CHMC 102316 M4	8,988	-
Geisinger Clinic		U01HG006382	7,974	-
Johns Hopkins University		MH (2001815868)	627,340	-
Massachusetts General Hospital		MH106053 (225144)	87,230	-
University of California, San Diego		MH (10313885004)	4,983	-
University of Rochester		MH (416088-G)	38,449	-
University of Rochester		MH014701 (416536)	81,855	_
University of Roenester		MH (153442/152932)	26,062	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Vanderbilt University	93.242	MH096972(VUMC 40221)	294,383	-
Fred Hutchinson Cancer Research Ctr		DA032106 (000838988)	94,189	-
Nova Southeastern University		DA019048 (331985)	25,170	-
The Miriam Hospital		710-9958	17,680	-
University of Cincinnati	93.279	007073-026	22,052	-
University of Washington	93.279	DA037979 (UWSC8811)	16,967	-
Medical University of South Carolina		EB012099 (MUSC13-050)	(30)	-
Purdue University		4102-64822	112,784	-
Mayo Clinic Rochester	93.307	MD008934(63706900)	101,927	-
University of Pittsburgh		EB (0049064 (126858-1))	100,152	-
Dartmouth College		TR001086(1592)	122,382	-
Fred Hutchinson Cancer Research Ctr		HL106868 (0000851273)	6,508	-
American College of Radiology	93.393	CA021661 (RTOG)	140	-
Baylor College of Medicine		CA139020 (5600779094)	109,070	-
Duke Univ. Comprehensive Cancer Center	93.393	CA142081 (203-0309)	(62,741)	(6
Kaiser Permanente	93.393	CA140377 (KAISER)	44,423	-
Massachusetts General Hospital	93.393	CA137178 (226172)	8,274	-
University of Southern California	93.393	CA143237 (73415689)	24,962	-
University of Virginia	93.393	CA142081 (UVA)	65,919	6
Vanderbilt University	93.393	CA092447 (VUMC 57665)	13,068	-
Virginia Commonwealth University	93.393	CA (PD304087-SC106362)	6,833	-
Akrotome Imaging	93.394	CA180296 (AKROTOME)	155,901	-
Fred Hutchinson Cancer Research Ctr	93.394	CA152756 (0000728543)	85,799	-
Molecular Theranostics, LLC	93.394	CA199826 (Molecular Ther)	26,541	-
Riverside Research	93.394	NYO.G00386P.012942.1	9	-
The Ohio State University	93.394	CA183713 (60040784)	23,061	-
University of Miami	93.394	CA160593 (660555)	108,498	-
University of Michigan	93.394	CA086400 (3001861745)	1,027	-
University of Pennsylvania	93.394	557445	896	-
University of Texas Health Science Center	93.394	CA086402 (152906)	(2,085)	-
American College of Obstetricians & Gynecology	93.395	27469-094	93,270	-
Children's Hospital of Philadelphia	93.395	CA095861 (CHOP)	1,245	-
Children's Hospital of Philadelphia	93.395	CA180886 (CHOP)	23,895	-
Dana Farber Cancer Institute	93.395	CA188288 (1236001)	52,042	-
ECOG-ACRIN Cancer Research Group	93.395	CA180820 (ECOG-ACRIN)	151,630	-
Frontier Science Technology Research Foundation	93.395	U10CA180820-02CWRU1	8,187	-
Lentigen Corporation	93.395	CA128269-LENTINGEN	129,606	
National Surgical Adjuvant Breast & Bowel Project	93.395	TFED41-728	(1)	
NRG Onconolgy Foundation, Inc.	93.395	CA180868 (CWRU-YR 1)	64,107	-
Vanderbilt University Medical Center	93.396	CA162433 (VUMC 58042)	9,328	-
National Surgical Adjuvant Breast & Bowel Project	93.399	TIND-728	90	
NRG Oncology Foundation, Inc	93.399	CA189867 (NRG)	188,887	
Duke University	93.701	165191	(10,711)	-
Seattle Children's Hospital	93.701	AR09762	(1,461)	-
Affinity Therapeutics	93.837	AFFINITY HL121928	7,969	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipient
Brigham and Women Hospital	93.837	HL114473 (109593)	(24,081)	-
Brigham and Women Hospital	93.837	HL123336 (225707)	10,676	-
Children's Hospital of Philadelphia		HL125295 (CHOP)	148,082	-
Cleveland Clinic Foundation		(HL119810) SUBI-239	147,779	-
Cleveland Clinic Foundation	93.837	255-SUBI (HL119810)	7,794	-
Cleveland Clinic Foundation	93.837	HL119810	1,797	-
Duke Clinical Research Institute	93.837	177494/200464/209692	24,545	
Duke University	93.837	HL075443 (2031044)	(19,279)	
Duke University	93.837	HL075443 (2034808)	339,095	
Duke University	93.837	HL084904 (193603)	51,028	-
Emory University		HL117721 (T558589)	92,451	-
Henry Ford Health System	93.837	HL028982 (HFHS)	216,903	-
Kent State University		HL119977 (403013-CWRU)	139,000	-
National Jewish Health	93.837	HL124053 (2020101401)	12,454	
New England Research Institute	93.837	HL107407 (NERI)	2,199	
Partners Healthcare System		HL122177 (224883)	9,236	
The Ohio State University	93.837	HL126563 (60045030)	196,829	
University of California, San Francisco		HL117713 (138316-4000)	30,968	
University of North Carolina	93.837	HL123677 (5-50144)	23,839	
University of Pennsylvania	93.837	562070	18,413	
University of Pittsburgh	93.837	0025070 (406794-2)	118,772	
University of Pittsburgh	93.837	HL 9005405 (119281-1)	(2,833)	
University of Pittsburgh	93.837	0041063 (409584-1)	130,998	
University of South Carolina	93.837	HL112787 (14-2475)	10,274	
University of Southern California	93.837	HL129902 (63709959)	241,420	
Vanderbilt University	93.837	HL121429 (VUMC 44275)	29,794	
Vanderbilt University		HL056693 (VUMC 53100)	9,907	
Washington University	93.837	HL118305 (WU-14-243)	23,668	
Brigham and Women Hospital	93.838	HL113338 (108605)	85,706	
Mayo Foundation- Rochester	93.838	HL056470 (63677679)	115,581	
Pennsylvania State University	93.838	HL(CWU HL 109086)	2,682	
Seattle Children's Hospital	93.838	HL114623(11140SUB)	1,000	
University of California, San Francisco	93.838	HL128156 (8892sc)	63,357	
University of Washington	93.838	HL06800 (747426)	98	
Vanderbilt University		HL079937 (VUMC 38162)	1,593	
Apto Orthopaedics	93.846	RAR067008A	5,365	
Burnham Institute	93.846	AR056273	293	
Cleveland Clinic Foundation	93.846	244-SUBI	119,855	
Drexel University	93.846	232222; 232486-3850	67,354	
University of Michigan		AR069071 (3003716879)	54,872	
Dialysis Clinic, Inc		DIALYSIS CL (NEGREA)	95,872	
Cleveland Clinic Foundation		DK101500	228	
Emory University		DK087694 (S624243)	6,483	
George Washington University		DK (S-GRD1213-EAS)	767,318	
George Washington University		DK (S-LIF1314-JB01)	12,376	

George Washingon University         93.847         DK06120         316,766           Georgia Regints University         93.847         DK06169 (2530-47)         32,022           Mutifisting Status         93.847         DK06169 (2530-47)         32,022           Mutifisting Status         93.847         DK06169 (253-616-469)         57,787           Northwestern University         93.847         DK06953 (UDIX)         5,378           Standord University         93.847         DK06953 (UDIX)         5,378           Standord University         93.847         DK06953 (UDIX)         5,378           Status         93.847         DK06953 (UDIX)         5,378           Status         041.847         DK108454         064,051           University of Klasian, Berningham         93.847         DK108454         063,053           University of Klasian, Berningham         93.847         DK081327         07818           University of Klasing         93.847         DK081342	FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipient
Georgia Regens University95.847DK076(9 (2304-47)32.022Georgia Regens University95.847DK076(9 (2304-47)75.00Georgia Regens University of South Conolna95.847DK08453 (MUSC)12.6.174Mount Simi School of Medicine of the NE95.847DK08459 (0255-8161-4609)57.787Northwestern University of New Jensey95.847DK080595 (UMDA)5.378Rangers, The State University of New Jensey95.847DK080595 (UMDA)5.378Themalin Diabetes Incorporated95.847DK (284-4DK02041-02.1-1)15.004Themalin Diabetes Incorporated95.847DK (284-4DK02041-02.1-1)15.004University of Alabam, Brinnigham95.847DK (284-4DK02041-02.1-1)6.019University of Alabam, Brinnigham95.847DK (284-4DK02041-02.1-1)6.019University of Alabam, Brinnigham95.847DK (284-4DK02041-02.1-1)6.020University of Alabam, Brinnigham95.847DK (284-4DK02041-02.1-1)0.026University of Alabam, Brinnigham95.847DK (284-4DK02041-02.1-1)0.026University of Chafung, San Franceso95.847DK (284-4DK02041-02.1-1)0.026University of Chafung95.847DK (284-4DK02041-02.1-1)0.026University of Chafung95.847DK (284-4DK02041-02.1-1)0.026University of Chafung95.847DK (284-4DK0204-02.1-1)0.026University of Chafung95.847DK (284-4DK0204-01.0-1)0.026University of Chafung95.847DK (284-4DK0204-01.0-1)	George Washington University	93.847	DK061230	316,766	
Georgia Regens University91.8.47DK0761 (9203-459)75.000Medical University of South Carolina93.847DK08549 (0255-8516-069)57.77Mentral Shara Shado of Medicine of the NE93.847DK08549 (0255-816-069)57.787Northwersten University93.847DK09549 (0255-816-069)57.87Ratgers, The State University of New Jensey93.847DK09593 (UMDNJ)53.87Standord University93.847DK09593 (UMDNJ)52.004Thermalin Datetes Incorporated93.847DK016241-02.11-1)152.004Thermalin Datetes Incorporated93.847DK016343 (DK02041-02.11-1)152.004University of Caloman, Birmingham93.847DK016323-0046.018University of Caloman, Birmingham93.847DK01843 (DK00203-004)6.019University of Caloman, Birmingham93.847DK01843 (DK00203-004)6.013University of Caloman, Birmingham93.847DK01843 (DK00203-004)6.013University of Caloman, Birmingham93.847DK018410.86.91University of Calo93.847DK018410.86.91University of Caloman, Birmingham93.847DK018410.86.92University of Calo93.847DK018410.86.92University of Caloman, Birmingham93.847DK018410.86.92University of Calo93.847DK018410.86.92University of Caloman, Birmingham93.847DK018410.86.92University of Caloman, Birmingham93.847DK018410.86.92	Georgia Regents University	93.847	DK076169 (25730-10)	14,432	-
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University of Utah         93.847         DK (VUMC 40347)         (03,380)           Yale University School of Medicine         93.847         DK (M13A11503 (A09021))         (5,774)           Aeromics         93.853         AEROMICS         (14)           Ahersys, Inc.         93.853         NS091864 (109446)         7,925           Brigham and Women Hospital         93.853         NS01864 (109446)         7,925           Cincinnati Children's Hospital         93.853         NS045911 (107759)         680           Cleveland Clinic Foundation         93.853         NS078059 (GG00632)         98,956           ConservoCare         93.853         NS078059 (GG00632)         98,956           ConservoCare         93.853         NS062821 232475-5826         23.813           Johns Hopkins University         93.853         NS05089 (200198471)         6,319           Massachusetts General Hospital         93.853         NS05089 (200198471)         6,319           Massachusetts General Hospital         93.853         NS05089 (200198471)         6,319           Massachusetts General Hospital         93.853         NS05089 (200198471)         6,635           University of Kentucky         93.853         NS00168 (Mayo)         4,833           University of Kentucky				,	
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Aeromics         93.853         AEROMICS         (14)           Athersys, Inc.         93.853         AYTHERSIS (Silver)         48,565           Brigham and Women Hospital         93.853         NS091864 (10946)         7,925           Cincinnati Children's Hospital         93.853         NS045911 (107759)         680           Cleveland Clinic Foundation         93.853         NS045911 (107759)         680           Columbia University         93.853         NS078059 (GG00632)         98,955           ConservoCare         93.853         NS069221 232475-5826         23,813           Johns Hopkins University         93.853         NS055089 (2001958471)         6,319           Massachusetts General Hospital         93.853         NS055089 (2001958471)         6,319           Massachusetts General Hospital         93.853         NS055089 (2001958471)         6,319           Massachusetts General Hospital         93.853         NS055089 (2001958471)         6,635           University Of Cincinnati         93.853         NS091551-123198         16,635           University of Kentucky         93.853         NS09151-123198         16,635           University of Minnesota         93.853         NS06172-070         17,053           Van Andel Research Institute	-			,	
Ahersys, Inc.       93.853       AYTHERSIS (Silver)       48,65         Brigham and Women Hospital       93.853       NS091864 (109446)       7,925         Cincinati Children's Hospital       93.853       NS091844 (109456)       680         Cleveland Clinie Foundation       93.853       NS081431       3,881         Columbia University       93.853       NS078059 (GG00632)       98,956         ConservoCare       93.853       NS081432       23,813         Johns Hopkins University       93.853       NS0520 (200149002)       10,370         Johns Hopkins University       93.853       NS05842 (200149002)       10,370         Johns Hopkins University       93.853       NS0589 (2001958471)       6,319         Massachusetts General Hospital       93.853       NS09548-01       22,070         Mayo Clinie Jacksonville       93.853       NS091541 (200149002)       48,333         Northwester University       93.853       NS09536 (2001958471)       6,015         University of Cincinnati       93.853       NS09154 (Mayo)       48,333         University of Cincinnati       93.853       NS091541 (23198       16,635         University of Kentucky       93.853       NS08158 (N003584201)       16,635         University of	-				
Brigham and Women Hospital       93.853       NS091864 (109446)       7,925         Cincinati Children's Hospital       93.853       NS045911 (107759)       680         Cleveland Clinic Foundation       93.853       NS081443       3,881         Columbia University       93.853       NS07059 (GG00632)       98,956         ConservoCare       93.853       NS070247       (45)         Drexel University       93.853       NS06221 232475-5826       23,813         Johns Hopkins University       93.853       NS062851 (2001049002)       10,370         Johns Hopkins University       93.853       NS05089 (2001958471)       6,319         Massachusetts General Hospital       93.853       NS080168 (Mayo)       4,833         Northwestern University       93.853       NS080168 (Mayo)       4,833         Northwestern University of Cincinnati       93.853       NS080168 (Mayo)       4,833         University of Kentucky       93.853       NS085188 (N003584201)       16,635         University of Minnesota       93.853       NS085188 (N003584201)       196,051         University of Minnesota       93.853       NS060729-07 V1858-1       278,158         Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158					
Cincinnati Children's Hospital       93.853       NS045911 (107759)       680         Cleveland Clinic Foundation       93.853       NS081443       3,881         Columbia University       93.853       NS078059 (GG00632)       98,956         ConservoCare       93.853       NS069221 232475-5826       23,813         Johns Hopkins University       93.853       NS069221 232475-5826       23,813         Massachusetts General Hospital       93.853       NS05089 (2001958471)       6,319         Mayo Clinic Jacksonville       93.853       NS09548-01       4,833         Northwestern University       93.853       NS09151-123198       16,635         University of Clininati       93.853       NS08188 (N003584201)       196,051         University of Minnesota       93.853       NS06729-07 V1858-1       278,158         Van Andel Research Institute       93.853       NS06729-07 V1858-1       278,158         Van Andel Research Institute       93.853       NS06729-07 V1858-1       278,158 <td></td> <td></td> <td></td> <td>,</td> <td></td>				,	
Cleveland Clinic Foundation       93.853       NS081443       3,881         Columbia University       93.853       NS078059 (GG00632)       98,956         ConservoCare       93.853       NS069221 232475-5826       23,813         Drexel University       93.853       NS069221 232475-5826       23,813         Johns Hopkins University       93.853       NS069221 232475-5826       23,813         Johns Hopkins University       93.853       NS05980 (2001958471)       6,319         Massachusetts General Hospital       93.853       NS059548-01       22,070         Mayo Clinic Jacksonville       93.853       NS080168 (Mayo)       4,833         Northwestern University       93.853       NS09151-123198       60,015         University of Kentucky       93.853       NS08144-16-242)       127,804         University of Kentucky       93.853       NS0817392 (122175-2)       17,053         Vanderbilt University       93.853       NS060729-07 V1858-1       278,158         Vanderbilt University       93.853       NS060729-07 V1858-1       278,158         Vanderbilt University       93.853       NS060729-07 V1858-1       278,158         Vanderbilt University       93.855       A1095565 (FY15TTN136)       7,323         Ben	C 1			,	
Columbia University       93.853       NS078059 (GG00632)       99,956         ConservoCare       93.853       ConservoCare       (45)         Drexel University       93.853       NS06221 232475-5826       23.813         Johns Hopkins University       93.853       NS052021 232475-5826       23.813         Johns Hopkins University       93.853       NS055089 (C001958471)       6.319         Masachusetts General Hospital       93.853       NS055089 (C001958471)       6.319         Mayo Clinic Jacksonville       93.853       NS091951423198       4,833         Northwestern University       93.853       NS091951-123198       6,635         University of Cincinnati       93.853       NS091951-123198       16,635         University of Minnesota       93.853       NS017392 (122175-2)       17,053         Van Andel Research Institute       93.853       NS0672-07 V1858-1       278,158         Van Andel Research Institute       93.853       NS0672-07 V1858-1       278,158         Benaroya Research Institute       93.855       A1095695 (FV151TN136)       7,323         Benaroya Research Institute       93.855       A1095695 (1027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       A1124377 (1028935) <t< td=""><td>1</td><td></td><td></td><td></td><td></td></t<>	1				
ConservoCare         93.853         ConservoCare         (45)           Drexel University         93.853         NS069221 232475-5826         23,813           Johns Hopkins University         93.853         NS062851 (2001049002)         10,370           Johns Hopkins University         93.853         NS055089 (2001958471)         6,319           Massachusetts General Hospital         93.853         NS055089 (2001958471)         6,319           Massachusetts General Hospital         93.853         NS055089 (2001958471)         6,319           Mayo Clinic Jacksonville         93.853         NS055089 (2001958471)         6,319           Moyo Clinic Jacksonville         93.853         NS080168 (Mayo)         4,833           Northwestern University         69,015         60029363 CWRU         69,015           University of Cincinnati         93.853         NS08188 (N003584201)         16,635           University of Minnesota         93.853         NS060729-07 V1858-1         17,053           Van Andel Research Institute         93.853         NS060729-07 V1858-1         278,158           Vanderbilt University         93.853         NS060729-07 V1858-1         278,158           Vanderbilt University         93.853         NS060729-07 V1858-1         278,158 <td< td=""><td></td><td></td><td></td><td>,</td><td></td></td<>				,	
Drexel University         93.853         NS069221 232475-5826         23,813           Johns Hopkins University         93.853         NS062851 (2001049002)         10,370           Johns Hopkins University         93.853         NS055089 (2001958471)         6,319           Massachusetts General Hospital         93.853         NS05548-01         22,070           Mayo Clinic Jacksonville         93.853         NS080168 (Mayo)         4,833           Northwestern University         93.853         S0029363 CWRU         69,015           University of Cincinnati         93.853         NS091951-123198         16,635           University of Minnesota         93.853         NS08188 (N003584201)         196,051           University of Pittsburgh         93.853         NS06729-07 V1858-1         278,158           Van Anel Research Institute         93.855         AI005729 V17858-1         278,158           Van Andel Research Institute         93.855         AI09565 (FY151TN136)         7,323           Benaroya Research Institute         93.855         AI09565 (FY151TN136)         7,323           Beth Israel Deaconess Medical Center         93.855         AI095985 (01027421 CORE E)         644,155           Beth Israel Deaconess Medical Center         93.855         AI124377 (01028935)         5,				,	
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Massachusetts General Hospital       93.853       NS095548-01       22,070         Mayo Clinic Jacksonville       93.853       NS080168 (Mayo)       4,833         Northwestern University       93.853       60029363 CWRU       69,015         University of Cincinnati       93.853       NS091951-123198       16,635         University of Kentucky       93.853       NS080168 (M003584201)       196,051         University of Pittsburgh       93.853       NS060729-07 V1858-1       278,158         Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158         Vanderbilt University       93.853       AI109565 (FY15ITN136)       7,323         Beth Israel Deaconess Medical Center       93.855       AI1095985 (01027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       AI124377 (01028935)       5,088				,	
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University of Cincinnati       93.853       NS091951-123198       16,635         University of Kentucky       93.853       HS (32000444-16-242)       127,804         University of Minnesota       93.853       NS085188 (N003584201)       196,051         University of Pittsburgh       93.853       NS 0017392 (122175-2)       17,053         Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158         Vanderbilt University       93.853       2797-018496       53,868         Benaroya Research Institute       93.855       Al109565 (FY15ITN136)       7,323         Beth Israel Deaconess Medical Center       93.855       Al095985 (01027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       Al124377 (01028935)       5,088	5			,	
University of Kentucky       93.853       HS (32000444-16-242)       127,804         University of Minnesota       93.853       NS085188 (N003584201)       196,051         University of Pittsburgh       93.853       NS 0017392 (122175-2)       17,053         Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158         Van derbilt University       93.853       2797-018496       53,868         Benaroya Research Institute       93.855       AI109565 (FY15ITN136)       7,323         Beth Israel Deaconess Medical Center       93.855       AI095985 (01027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       AI124377 (01028935)       5,088				,	
University of Minnesota       93.853       NS085188 (N003584201)       196,051         University of Pittsburgh       93.853       NS 0017392 (122175-2)       17,053         Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158         Vanderbilt University       93.853       2797-018496       53,868         Benaroya Research Institute       93.855       AI109565 (FY15ITN136)       7,323         Beth Israel Deaconess Medical Center       93.855       AI095985 (01027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       AI124377 (01028935)       5,088	-			,	
University of Pittsburgh       93.853       NS 0017392 (122175-2)       17,053         Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158         Van derbilt University       93.853       2797-018496       53,868         Benaroya Research Institute       93.855       AI109565 (FY15ITN136)       7,323         Beth Israel Deaconess Medical Center       93.855       AI095985 (01027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       AI124377 (01028935)       5,088					
Van Andel Research Institute       93.853       NS060729-07 V1858-1       278,158         Van derbilt University       93.853       2797-018496       53,868         Benaroya Research Institute       93.855       AI109565 (FY15ITN136)       7,323         Beth Israel Deaconess Medical Center       93.855       AI095985 (01027421 CORE E)       644,155         Beth Israel Deaconess Medical Center       93.855       AI124377 (01028935)       5,088				,	
Vanderbilt University         93.853         2797-018496         53,868           Benaroya Research Institute         93.855         AI109565 (FY15ITN136)         7,323           Beth Israel Deaconess Medical Center         93.855         AI095985 (01027421 CORE E)         644,155           Beth Israel Deaconess Medical Center         93.855         AI124377 (01028935)         5,088				,	
Benaroya Research Institute         93.855         AII09565 (FY15ITN136)         7,323           Beth Israel Deaconess Medical Center         93.855         AI095985 (01027421 CORE E)         644,155           Beth Israel Deaconess Medical Center         93.855         AI124377 (01028935)         5,088				,	
Beth Israel Deaconess Medical Center         93.855         AI095985 (01027421 CORE E)         644,155           Beth Israel Deaconess Medical Center         93.855         AI124377 (01028935)         5,088	-			,	
Beth Israel Deaconess Medical Center         93.855         AI124377 (01028935)         5,088				,	
				,	
Brigham and women Hospital 93.855 AU68636 (110198) 70.342				,	<i>(</i> 2)
Brigham and Women Hospital         93.855         AI068636 (110230)         6,041				,	69,0

PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Brigham and Women Hospital	93.855	AI068636 (110668)	4,600	-
Brigham and Women Hospital	93.855	AI068636 (110758)	128,533	128,564
Brigham and Women Hospital	93.855	AI068636 (111668)	338,405	-
Brigham and Women Hospital	93.855	AI068636 (111857)	103,478	11,056
Brigham and Women Hospital	93.855	AI068636 (113091)	81,215	-
Brigham and Women Hospital	93.855	AI106701 (109926)	386,932	-
Brigham and Women Hospital	93.855	AI106701 (109928)	27,082	-
Children's Hospital of Boston	93.855	AI084011 (75940)	453	-
Children's Hospital of Oakland	93.855	AI (12.8216.003)	(4,360)	-
Colorado State University	93.855	AI115619 (G-16851-1)	108,216	-
Duke University	93.855	AI104681 (203-9707)	135,152	-
Duke University	93.855	AI104681 (203 9894)	62,584	-
Emory University		AI107960 (T270260)	214,820	-
Emory University		AI110334 (T310399)	297,795	-
red Hutchinson Cancer Research Ctr		AI068614 (0000750859)	113	-
red Hutchinson Cancer Research Ctr	93.855	AI068614 (000819593)	185,249	-
red Hutchinson Cancer Research Ctr	93.855	AI068614 (0000841640)	168,689	-
Grand Valley State University		AI082416 (GVU-207034-01)	3,309	-
nstitute for Clinical Research Inc.		ICR (Salata)	2,327	-
ohns Hopkins University		AI069918 (2001317194)	76,864	-
a Jolla Institute for Allergy and Immunology		AI118626 (20025-04-384)	50,141	-
Agee-Women's Research Institute and Foundation		AI068633 (9329)	7,623	-
Agee-Women's Research Institute and Foundation		AI068633 (9374)	20,601	-
Jount Sinai School of Medicine of the NE		AI (0255-1358-4609)	182,370	-
Jount Sinai School of Medicine of the NE		AI (0255-1611-4609)	158,939	-
Partners Healthcare System		AI068636 (114868)	5,418	-
artners Healthcare System		AI068636 (113237)	1,360	-
Rutgers, The State University of New Jersey		AI030155 (8095)	60,180	-
Jniversity of North Carolina		AI096113(5-33806)	4,140	-
t. Jude Children's Research Hospital		112192019-7633216	170,472	-
tanford University		AI102918 (61017674-117727)	33,381	-
Jniversity of Alabama, Birmingham		000503356-SP002-SC01	223,064	-
Jniversity of Alabama, Birmingham		AI (000397076-007)	421,310	-
Jniversity of California, San Francisco		AI096109 (8428SC)	134,591	_
Jniversity of California, San Francisco		AI096109 (8429SC)	304,868	-
Jniversity of California, San Francisco		AI096109 (8628SC)	25,947	-
Jniversity of Cape Town		AI087915 (U of Cape Town)	321,551	_
Jniversity of Elorida		AI (UFDSP00011053)	23,893	-
Jniversity of Maryland		AI0277630 (1400231)	11,524	-
Jniversity of Miami		AI073961 (665103)	5,436	-
Jniversity of Mahin Jniversity of North Carolina		AI050410 (5-33229)	(1,176)	-
Jniversity of North Carolina		AI096113 (5-31533)	(1,170) 227,626	-
Jniversity of North Carolina		AI096113 (5100235)	(2,340)	-
Jniversity of South Florida		AI (6408-1063-00-A)	(2,340) 233,412	-
	9101	AI (0400-1003-00-A)	233,412	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
University of Southern California	93.855	AI101750 (61454407)	9,165	-
University of Southern California	93.855	AI101492 (54267827)	6,377	-
University of Southern California	93.855	AI117211 (72507150)	15,802	-
University of Washington	93.855	AI104920 (759576)	139,515	-
University of Washington	93.855	AI057005 (747348)	136	-
Vanderbilt University	93.855	AI093234 (VUMC 51740)	87,663	-
ViTi, Inc.	93.855	AI091267 (9003 CWRU)	89,010	-
Cleveland Clinic Foundation	93.859	GM050009 (CCLCM)	22,887	-
CommonWealth Informatics, Inc.	93.859	GM112523	51,902	-
Mayo Foundation- Rochester	93.859	GM061388 (63246114)	(124)	-
New York Structural Biology Center		GM (NYSBCG01908-4)	(10,097)	-
University of California, Los Angeles	93.859	0145GTA360 (GM115833)	76,671	-
University of California, San Diego	93.859	GM (10313432-001)	(5,280)	-
University of Michigan	93.859	3002520016	185,807	-
University of Michigan	93.859	GM083241 (3002596977)	15,155	-
University of Mississippi	93.859	66662060716-03	106,722	-
University of Pittsburgh	93.859	GM082251 0029564 (123550-8)	391,903	-
University of Pittsburgh	93.859	GM (0024510 123320-1)	83,702	-
University of Texas at Austin	93.859	GM111926 (UTA15-000330)	100,665	-
University of Utah	93.859	GM (10027535-14-8S1)	34,907	-
University of Virginia	93.859	GM (GC12257 145836)	20,153	-
University of Washington	93.859	GM110569 (755978)	166,330	-
Vanderbilt University	93.859	GM109145 (VUMC 53101)	10,561	-
Celsense	93.865	HD079116 (CELSENSE)	(11,920)	-
Children's National Medical Center	93.865	HD (30002425-03)	113,918	-
Children's National Medical Center	93.865	HD (30000744-13-03)	28,205	-
Children's Research Institute	93.865	HD076885 (933813)	278,617	-
Cincinnati Children's Hospital	93.865	HD042729 (106049)	20,438	-
George Washington University	93.865	21050-37-CCLS29181F	337,312	-
RTI International	93.865	HD036790 (0212456)	338,280	-
RTI International	93.865	HD063036	45,512	-
The Ohio State University	93.865	60035809-CWRU	49,283	-
University of Pittsburgh	93.865	HD079647	42,570	-
University of Utah	93.865	HD082148 (10036366-CASE)	8,303	-
City of Hope	93.866	23030.914940.6692	(1,197)	-
Duke University	93.866	AG034661 (2039364)	39,112	-
Medical University of South Carolina	93.866	AG046543 (MUSC14-074)	57,880	-
Neogene Bioscience LLC	93.866	AG (2013 CHAMBER P1)	24,627	-
Purdue University	93.866	AG047447 (4102-62336)	16,187	-
ReXceptor Inc	93.866	AG048658-(REXCEPTOR)	21,172	-
RMD, Inc.	93.866	AG044234 (C13-19)	73,777	-
University of California, Los Angeles	93.866	AG(1440 G TA931)	27,675	-
University of California, San Diego	93.866	AG010483 (37336810)	10,593	-
University of California, San Diego	93.866	AG010483 (45891447)	173,285	-
University of California, San Diego	93.866	AG024904 (114-ADNI-2)	24,622	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
University of California, San Diego	93.866	AG030048 (114CWRU)	45,468	-
University of California, Santa Barbara		KK1331	10,056	-
University of Louisville Health Sciences		AG (ULRF 14-1080S1-01)	7,439	-
University of Louisville Health Sciences		AG047297 (ULRF 14-1080-01)	7,968	-
University of Miami		AG032984 (665263)	62,481	-
University of Michigan		AG045061	11,498	-
University of Pennsylvania		AG (568933/10052383/19536)	13,673	-
University of Pennsylvania		AG047133 (564315)	154,533	-
University of Southern California		WFUHS 110858 USC	227	-
Virginia Commonwealth University		PD302561-SC103652	98,362	-
Wake Forest University		AG (WFUHS 110918)	5,000	-
Wake Forest University		WFUHS 110918 Canady	(360)	-
Indiana University		EY025383 (IN4684833CWRU)	8,738	-
Jaeb Center for Health Research		EY014231 (DRCRN 58)	21,471	-
Jaeb Center for Health Research		EY020791 (JAEB)	17,323	-
Jaeb Center for Health Research		EY11751	1,929	-
Massachusetts Eye and Ear Infirmary		EY020928 (ME&EI)	110,487	-
University of California, Irvine		EY014362 (2015-3236)	118,039	-
University of California, Irvine		EY018612 (2015-3237)	146,311	-
University of California, Irvine		EY024817 (2015-3259)	181,014	-
University of Miami		EY012118 (661456)	385,139	-
University of Pennsylvania		EY023164 (560636)	427,407	_
University of Pennsylvania		LM010098 (567329)	36,729	_
ffice of Adolescent Health, Office of the Secretary	25.012	Emorooyo (507525)	50,725	
Pass Through Programs				
Cuyahoga County Board of Health	93 297	CCBH (Trapl)	81,818	_
ubstance Abuse and Mental Health Services Administration	15.271	Cebh (Tapi)	01,010	-
Direct Programs				
Substance Abuse and Mental Health Services-Projects of Regional and National Significance	93.243		60,696	-
Pass Through Programs				
Cuyahoga County of Ohio	93	Cuyahoga County	19,453	-
Cuyahoga County of Ohio	93	CCC of Common Pleas	87,033	-
City of Cleveland	93.243	2013-086	16,560	-
City of Cleveland	93.243	CT0115PS 2015-127	79,062	-
City of Cleveland	93.243	CT0115PS 2016-127	1,620	-
Ohio Department of Mental Health	93.243	99-3095-SSHS-P-15-1453	5,696	-
Ohio Department of Mental Health	93.959	99-13509-SSHS-T-16-1453	124,557	-
Department of Health & Human Services Sub	total		180,856,998	19,969,18

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Corporation for National and Community Service Direct Programs				
National Service and Civic Engagement Research Competition	94.026		102,804	
Corporation for National and Con	nmunity Service Subtotal		102,804	-
Department of Homeland Security				
Direct Programs				
Assistance to Firefighters Grant	97.044		425,433	42,4
Department of Hou	meland Security Subtotal		425,433	42,4
Total Research and Development (	Grants – University Only		215,682,667	25,022,
Research Training – University				
Department of Commerce				
Direct Programs				
Science, Technology, Business and/or Education Outreach	11.620		8,250	
Departme	nt of Commerce Subtotal		8,250	
Department of Defense				
Direct Programs				
Military Medical Research and Development	12.420		42,106	
Depart	ment of Defense Subtotal		42,106	
National Aeronautics and Space Administration				
Direct Programs Aerospace Education Services Program	43.001		3,660	
Education Services Program	43.001 43.008		3,660 68,655	
Cross Agency Support	43.008		11,870	
			11,870	
National Aeronautics and Space	Administration Subtotal		84,185	
National Science Foundation				
Direct Programs				
Education and Human Resources	47.076		503,997	
Pass Through Programs Jackson State University	47.080 633108		(500)	
			. ,	
National Scie	ence Foundation Subtotal		503,497	

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Department of Education				
Direct Programs				
Graduate Assistance in Areas of National Need	84.200		351,991	-
Special Education - Personnel Development to Improve Services and Results for Children with			,	
Disabilities	84.325		213,746	-
Department of Education Sub	total		565,737	-
Vietnam Education Foundation				
Direct Programs				
Fellowship Program	85.802		3,556	-
Vietnam Education Foundation Sub	total		3,556	-
Department of Health & Human Services				
Administration for Children and Families				
Pass Through Programs				
Research Foundation for the State University of New York, Albany	93.648 15-59		109,863	-
Health Resources and Services Administration				
Direct Programs				
Nurse Anesthetist Traineeships	93.124		40,721	-
Substance Abuse and Mental Health Services Projects of Regional and National Significance	93.243		120,332	-
Advanced Nursing Education Grant Program	93.247		(237)	-
Nurse Education, Practice Quality and Retention Grants	93.359		(12,132)	-
Affordable Care Act (ACA) Advanced Nursing Education Expansion Initiative	93.513		255,420	-
Grants for Training in Primary Care Medicine and Dentistry	93.884		1,402,170	2
National Institutes of Health				
Direct Programs				
Oral Diseases & Disorder Research	93.121		169,366	-
Research Related to Deafness and Communication Disorders	93.173		32,425	-
Mental Health Research Grants	93.242		27,264	-
Drug Abuse and Addiction Research Programs	93.279		9,377	-
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286		489,738	-
National Center for Advancing Translational Sciences	93.350		518,488	-
Nursing Research	93.361		795,439	-
National Center for Research Resources	93.389		(316)	-
Cancer Research Manpower	93.398		976,606	110,2
Cardiovascular Diseases Research	93.837		646,970	-
Lung Diseases Research	93.838		66,886	-
Blood Diseases and Resources Research	93.839		12,521	-
Arthritis, Musculoskeletal and Skin Diseases Research	93.846		502,167	-
Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847		335,985	-
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853		130,006	-
Allergy and Infectious Diseases Research	93.855		105,342	-
Biomedical Research and Research Training	93.859		2,576,253	7,7

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Child Health and Human Development Extramural Research	93.865		314,685	-
Aging Research	93.866		183,360	-
Vision Research	93.867		243,540	-
International Research and Research Training	93.989		548,642	85,475
Pass Through Programs				
Makerere University	93.853	NS080968 (01-03)	17,890	-
Cuyahoga Community College	93.859	GM049010 (TRI-C)	4,328	-
Makerere University	93.989	TW010132 (02-01)	16,917	-
Substance Abuse and Mental Health Services Administration				
Direct Programs				
Block Grants for Community Mental Health Services	93.958		311,416	-
Block Grants for Prevention and Treatment of Substance Abuse	93.959		19,781	-
Pass Through Programs				
University of Maryland	93	Task #9	20,561	-
Ohio Department of Mental Health	93.243	99-3095-SPEMP-T-15	848	-
Ohio Department of Mental Health	93.243	99-3095-SPEMP-T-16-161101	85,103	-
Ohio Department of Mental Health	93.243	99-13509-Engage-P-1616029	258,563	-
Ohio Department of Mental Health	93.958	99-3095-BESTPRACT-T	19,202	-
Ohio Department of Mental Health	93.958	99-3095-BESTPRACT-T16-1543	520,101	-
Ohio Department of Mental Health	93.958	99-3095-FCSPPT-P-15	1,330	-
Ohio Department of Mental Health	93.958	99-3095-BESTPRACT-T-161527	272,194	-
Ohio Department of Mental Health and Addiction Services	93.959	99-3095-SAMI-T-15-03	(6,644)	-
Department of Health & Huma	n Services Subtotal		12,142,471	203,711
Total Research Training Grants	s – University Only		13,349,802	203,711
Total Research and Development Cluster	r – University Only		229,032,469	25,226,489

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Research and Development Cluster – Cleveland Clinic Lerner College of Medicine (See Note A)				
Department of Health & Human Services				
Health Services Research Administration				
Direct Programs				
Geriatric Academic Career Awards	93.250		12,418	-
National Institutes of Health	,		,	
Direct Programs				
Research and Development	93		107,044	83,875
Family Smoking Prevention and Tobacco Control Act Regulatory Research	93.077		54,071	-
Oral Diseases and Disorders Research	93.121		988	-
Human Genome Research	93.172		211,450	-
Research Related to Deafness and Communication Disorders	93.173		(1)	-
National Center on Sleep Disorders Research	93.233		667,250	-
Mental Health Research Grants	93.242		792,699	-
Alcohol Research Programs	93.273		4,193,903	747,994
Discovery and Applied Research for Technological Innovations to Improve Human Health	93.286		284,845	27,390
Trans-NIH Research Support	93.310		230,742	
Research Infrastructure Programs	93.351		1,672,313	-
National Center for Research Resources	93.389		84,368	-
Cancer Cause & Prevention Research	93.393		1,691,472	258,352
Cancer Detection and Diagnosis Research	93.394		653,236	88,469
Cancer Treatment Research	93.395		3,190,101	103,310
Cancer Biology Research	93.396		5,577,377	418,690
Cancer Research Manpower	93.398		748,413	-
Cardiovascular Diseases Research	93.837		17,834,417	1,597,099
Lung Diseases Research	93.838		7,113,392	245,065
Blood Diseases & Resources Research	93.839		5,396,654	48,085
Arthritis, Musculoskeletal, & Skin Diseases Research	93.846		3,063,070	194,409
Diabetes, Digestive, and Kidney Diseases Extramural Research	93.847		7,255,044	913,227
Extramural Research Programs in the Neurosciences and Neurological Disorders	93.853		12,436,561	4,410,312
Allergy, Immunology and Transplantation Research	93.855		3,459,565	67,246
Biomedical Research and Research Training	93.859		3,631,120	255,39
Child Health and Human Development Extramural Research	93.865		1,275,024	33,05
Aging Research	93.866		1,852,615	28,128
Vision Research	93.867		2,970,321	-
Pass Through Programs				
Childrens Hospital of Philadelphia	93	HHSN261200800001E	10,538	-
Emmes Corporation	93	HHSN268201400002I	20,042	-
Radiological Society North America	93	HHSN268201300071C	6,398	-
Radiological Society North America	93	HHSN268201500021C	19,952	-
University of Florida	93	HHSN272201000043C	668	-
University of Michigan	93	HHSN268201100026C	15,902	-
Massachusetts General Hospital	93.213	U01AT000613	(9,742)	-
FHC, Inc.	93.242	R34MH107037	34,433	-
Flocel, Inc.	93.242	R42MH093302	59,856	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipient
Vanderbilt University	93.242	R01MH095621	159,448	
Applied Nanotech		R43AA022854	56,037	
Massachusetts General Hospital		R01EB009048	56,687	-
Mayo Clinic		R01EB018965	5,515	
Vanderbilt University		UH2TR000491	81,207	
Cornell University	93.389	R01CA184712	25,933	
Fred Hutchinson Center		R01CA18953	2,967	
Sloan-Kettering Cancer Research	93.393	R01CA179115	8,181	
Stanford University	93.393	UM1CA167551	43,901	
University Of North Carolina Chapel Hill		R01CA098286	87,538	
University of Southern California		R01CA074799	(99)	
Advance Cell Diagnostics		R44CA168019	211,275	
Advance Cell Diagnostics		R43CA192728	29,970	
Cernostics, Inc.	93.394	1R44CA192416	29,058	
Cornell University		R01CA184712	11,299	
Harvard University		R01CA151532	(1,412)	
Oncoscope, Inc.		R44CA128163	(614)	
Rice University		R01CA186132	8,747	
The Ohio State University		UM1CA183713	28,306	
University of California, San Francisco		R01CA158200	(15,965)	
University of Texas		U01CA086402	39,273	
Brigham and Women's Hospital		U10CA076001	9,248	
Children's Hospital of Philadelphia		U10CA180886	2,366	
Children's Hospital of Philadelphia		UG1CA189955	4,195	
Children's Oncology Group		U10CA095861	4,861	
Fred Hutchinson Center		R01CA118953	10,551	
Fred Hutchinson Center		5U01CA154967	217,108	
Fred Hutchinson Center		R01CA160684	1,122	
Gynecological Oncology Group		U10CA027469	19,697	
Johns Hopkins University		U01CA137443	316,777	
Massachusetts General Hospital		P01CA084203	110,677	
Mount Sinai School Of Medicine		P01CA108671	2,473	
NRG Oncology Foundation, Inc.		U10CA180868	6,999	
Sloan-Kettering Cancer Research		R01CA182551	58,394	
Southwestern Oncology Group		U01CA027057	27,313	
Southwestern Oncology Group		U10CA32102	(2,221)	
The Ohio State University		U01CA044971	(40,436)	
University of Michigan		CA032102	5,346	
The Ohio State University		R01CA143082	9,116	
The Ohio State University		P01CA124570	361,084	
University of Minnesota		R01CA172986	105,467	
Sarcoma Alliance for Research		U54CA168512	18,986	
Elucid Bioimaging		R44HL126224	3,254	
National Surgical Adjuvant Breast and Bowel Project		R01CA037377	1,401	
Children's Hospital of Philadelphia		U10CA098543	(758)	

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM ₀r CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipien
Bringham & Women's Hospital	93 837	P50HL112349	101,581	
Bringham & Women's Hospital		R01HL034594	75,691	
Bringham & Women's Hospital		U01HL101422	4,388	
Cornell University		R01HL111141	4,164	
Duke University		R01HL105448	26,431	
Duke University		U01HL084904	30,090	
Icon Clinical		U01HL117006	72,248	
Mount Sinai School Of Medicine		U01HL088942	237,691	
New England Research Institute		U01HL107407	29,847	
Perfusion Solutions, Inc.		R43HL126236	10,500	
Perfusion Solutions, Inc.		R43HL115868	26,276	
The Ohio State University		R34HL123586	49,970	
The Ohio State University		R01HL128857	32,407	
University of Colorado		R24HL123767	296,637	
University of Pennsylvania		R01HL115041	16,510	
University Of Pennsylvania		R01HL118018	105,772	
University of Texas		UM1HL087318	12,961	
University of Virginia		U01HL117006	20,334	
Virginia Commonwealth University		1UM1HL116885	47,440	
Baystate Medical Center		R18HL108810	16,603	
Fred Hutchinson Center		U01HL102547	52,718	
Massachusetts General Hospital		U01HL123009	32,270	
National Jewish Health		R01HL114587	55,140	
Pennsylvania State University		U10HL109086	83,853	
University Of Alabama At Birmingham		R01HL085324	79,305	
University Of Pennsylvania		R01HL113988	(1,804)	
University Of Washington At St. Louis		R01HL056643	101	
Vanderbilt University		R01HL117074	53,809	
Virginia Commonwealth University	93.838	1UM1HL116885	29,247	
Cincinnati Children's Hospital		R01HL114582	8,461	
University of Michigan	93.839	U01HL117658	447,424	
University Of Washington At St. Louis	93.839	U01HL088476	211	
Brigham & Women's Hospital	93.846	R01AR055557	7,290	
Brigham & Women's Hospital	93.846	U01AR068043	1,179	
Brigham & Women's Hospital	93.846	U34AR067426	1,984	
Hospital for Special Surgery	93.846	R01AR064840	(5,229)	
University Of Alabama At Birmingham	93.846	R21AR062300	2,817	
University Of Alabama At Birmingham	93.846	UM1AR065705	138	
University Of Pennsylvania	93.846	R01AR064153	3,371	
University Of Pennsylvania	93.846	U54AR057319	115,816	
Vanderbilt University	93.846	R01AR053684	3,736	
Baylor College of Medicine	93.847	R01DK101500	722	
Beth Israel Deconess Medical Center	93.847	R01DK085185	12,802	
Children's Mercy Hospital and Clinic	93.847	U01DK066143	13,522	
East Tennessee State University	93 847	R01DK102020	9,281	

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Harvard University	93.847	R01DK100383	68,203	-
Johns Hopkins University	93.847	R01DK097087	32,934	-
Kaiser Permanente	93.847	R01DK076165	4,257	-
Mayo Clinic	93.847	R01DK090358	19,975	-
Mayo Clinic	93.847	U01DK062410	3,125	-
Nationwide Children's Hospital Research Center	93.847	R01DK106286	40,552	-
New England Medical Center - Tufts	93.847	DK098245	273,330	-
Northwestern University	93.847	R01DK102438	14,797	-
Sloan-Kettering Cancer Research	93.847	DK097087	150,092	-
University Of Utah	93.847	R01DK088777	10,186	-
University Of Utah	93.847	R01DK090046	39,990	-
Wake Forest University	93.847	R56DK100669	13,108	-
Beth Israel Deconess	93.853	U01NS074425	(10,239)	-
Children's Hospital Boston	93.853	U54NS092090	207,299	-
Cleveland Medical Devices		R43NS082109	37,241	-
Columbia University		R01NS078059	948	-
Cornell University	93.853	UH3NS095554	10,177	-
Emmes Corporation		1U01NS026835	22,541	-
Great Lakes Neuro Technologies	93.853	R43NS076052	(5,816)	-
Great Lakes Neuro Technologies		R44NS065554	4,711	-
Iron Horse Diagnostics Inc.		R42NS083227	83,111	-
Massachusetts General Hospital	93.853	U01NS090259	132,244	-
Mayo Clinic Jacksonville	93.853	U01NS080168	8,158	-
Medical College of Wisconsin	93.853	R01NS035929	89,916	-
Neurodx Development LLC	93.853	R44NS067772	(116)	-
Northwestern University		U01NS080818	26,259	-
Rutgers University, Brunswick		R01NS038384	3,174	-
The Ohio State University		R01NS083767	31,112	-
University Of California At L A		R01NS074980	41,988	-
University Of California At San Francisco		R01NS053998	780	-
University Of California At San Francisco		R01NS071463	4,478	-
University Of Iowa	93.853	R01NS077946	262	-
University of North Texas		R01NS048837	95,992	-
Wayne State University		U01NS061264	4,059	-
Yale University		U01NS044876	2,127	-
Brigham & Women's Hospital	93.855	U01AI063623	28,440	-
Duke University	93.855	5UM1AI104681	76,167	-
Duke University	93.855	AI056363	19,711	-
Duke University		U01AI113315	177,718	-
Johns Hopkins University		U01AI109657	3,861	-
Mount Sinai School Of Medicine		U01AI063594	579,440	-
National Jewish Health		U01AI097073	1,667	-
Northwestern University		U01AL084146	7,389	-
University of California, San Francisco		U01AI113362	48,628	_

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
University of Pennsylvania	93.855 R01A	1104887	356,295	_
Research Triangle International	93.865 U01H		76,366	-
Sportsguard Laboratories	93.865 R41H		34,681	-
University of Kansas	93.865 R01H		49,786	-
University Of South Florida	93.865 U01D		707	-
Diapedia LLC.	93.866 R44A		260	-
Mount Sinai School Of Medicine	93.866 R01A	G029656	459	-
New England Medical Center - Tufts	93.866 R01A	.G027002	18,858	-
Northwestern University	93.866 R01A	G047416	16,082	-
University of California, San Diego	93.866 U19A	G010483	10,246	-
Duke University	93.867 R01E	Y023039	276,915	-
Emory University	93.867 EY02:	5553	5,063	-
H-Cubed Inc.	93.867 R43E		20,405	-
Jaeb Center Health Research	93.867 U10E		18,793	-
Thomas Jefferson University	93.867 R01E		106,073	-
University of Pennsylvania	93.867 U10E		60,885	-
Department of Health & Human Se	ervices Subtotal		94,454,567	9,520,11
Total Research and Development Cluster – Cleveland Clinic Lerner Coll	ege of Medicine		94,454,567	9,520,111
Total Research and Devel	lopment Cluster		323,487,036	34,746,600
ricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services	lopment Cluster		323,487,036	34,746,600
ricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine	lopment Cluster 93.095		<b>323,487,036</b> 296,636	
ricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services <u>Direct Programs</u>	93.095 ster – Cleveland			296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services <u>Direct Programs</u> HHS Programs for Disaster Relief Appropriations Act - Non Construction Total Department of Health & Human Services – Hurricane Sandy Relief Clus Clinic Lerner Coll	93.095 ster – Cleveland		296,636	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction Total Department of Health & Human Services – Hurricane Sandy Relief Clus Clinic Lerner Coll hway Planning & Construction Cluster	93.095 ster – Cleveland		296,636	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction Total Department of Health & Human Services – Hurricane Sandy Relief Clus Clinic Lerner Coll hway Planning & Construction Cluster epartment of Justice	93.095 ster – Cleveland		296,636	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction Total Department of Health & Human Services – Hurricane Sandy Relief Clus Clinic Lerner Coll hway Planning & Construction Cluster epartment of Justice Pass Through Programs	93.095 ster – Cleveland	)	296,636 <b>296,636</b>	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction Total Department of Health & Human Services – Hurricane Sandy Relief Clus Clinic Lerner Coll hway Planning & Construction Cluster epartment of Justice	93.095 ster – Cleveland ege of Medicine		296,636	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction Total Department of Health & Human Services – Hurricane Sandy Relief Clus Clinic Lerner Coll hway Planning & Construction Cluster epartment of Justice Pass Through Programs Ohio Department of Transportation	93.095 ster – Cleveland ege of Medicine 20.205 24950 20.205 26906		296,636 <b>296,636</b> 23,236	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction <b>Total Department of Health &amp; Human Services – Hurricane Sandy Relief Clus</b> <b>Clinic Lerner Coll</b> hway Planning & Construction Cluster epartment of Justice 2ass Through Programs Ohio Department of Transportation Ohio Department of Transportation	93.095 ster – Cleveland ege of Medicine 20.205 24950 20.205 26906		296,636 296,636 23,236 88,721	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction <b>Total Department of Health &amp; Human Services – Hurricane Sandy Relief Clus</b> <b>Clinic Lerner Coll</b> hway Planning & Construction Cluster epartment of Justice Pass Through Programs Ohio Department of Transportation Ohio Department of Transportation Total Department of Justice – Highway Planning & Const	93.095 ster – Cleveland ege of Medicine 20.205 24950 20.205 26906		296,636 296,636 23,236 88,721	296,630
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction <b>Total Department of Health &amp; Human Services – Hurricane Sandy Relief Clus</b> <b>Clinic Lerner Coll</b> hway Planning & Construction Cluster epartment of Justice Pass Through Programs Ohio Department of Transportation Ohio Department of Transportation Ohio Department of Transportation Chial Department of Justice – Highway Planning & Const dicaid Cluster	93.095 ster – Cleveland ege of Medicine 20.205 24950 20.205 26906		296,636 296,636 23,236 88,721	296,63
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction <b>Total Department of Health &amp; Human Services – Hurricane Sandy Relief Clus</b> <b>Clinic Lerner Coll</b> hway Planning & Construction Cluster epartment of Justice Pass Through Programs Ohio Department of Transportation Ohio Department of Transportation Ohio Department of Transportation dicaid Cluster epartment of Health & Human Services Centers for Medicaid and Medicare Services	93.095 ster – Cleveland ege of Medicine 20.205 24950 20.205 26906		296,636 296,636 23,236 88,721	296,636
rricane Sandy Relief Cluster – Cleveland Clinic Lerner College of Medicine epartment of Health & Human Services Direct Programs HHS Programs for Disaster Relief Appropriations Act - Non Construction <b>Total Department of Health &amp; Human Services – Hurricane Sandy Relief Clus</b> <b>Clinic Lerner Coll</b> hway Planning & Construction Cluster epartment of Justice Pass Through Programs Ohio Department of Transportation Ohio Department of Transportation Ohio Department of Transportation dicaid Cluster epartment of Health & Human Services	93.095 ster – Cleveland ege of Medicine 20.205 24950 20.205 26906 truction Cluster		296,636 296,636 23,236 88,721	<u>34,746,600</u> 296,636 <u>296,636</u> - - -

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
Children's Hospital Medical Center	93.778	137153/G-1617-05-0003; ODM201604	35,517	-
Northeast Ohio Medical University	93.778	G-1617-05-0003 (NEOMED)	46,947	-
The Ohio State University	93.778	60036810/G-1213-07-0343; Task Order OHP201209	17,861	-
The Ohio State University	93.778	60046085/G-1415-07-0060; OMD201409	59,391	-
The Ohio State University	93.778	60051005/G-1617-05-003; OMD201609	2,674,818	58,038
The Ohio State University	93.778	60051403/DOH010000040766; CSP9027151	4,397	-
The Ohio State University	93.778	60054868/G-1617-05-0295; ODM201650	2,431	-
The Ohio State University	93.778	60054208/G-1617-05-0295; Task Order ODM201650	177,042	-
The Ohio State University	93.778	MEDTAPP CHW	16,217	-
The Ohio State University	93.778	MEDTAPP BH	49,831	-
The Ohio State University	93.778	G-1213-07-0343	3,480	-
Total Department of Health & Human Services – Medicaid Cl	uster		3,208,637	58,038
SNAP Cluster				
Department of Agriculture				
Pass Through Programs				
The Ohio State University	10.561	2OH430128 (60047119)	84,104	-
Total Department of Agriculture – SNAP CI	uster		84,104	-
Other Federal Assistance				
Department of State				
Pass Through Programs Institute of International Education, Inc.	10.401	3069-CWRU-4-1-16	3,080	
,		S-ECAGD-15-CA-1101	50,199	
Institute of International Education, Inc.	19.432	S-ECAGD-15-CA-1101	50,199	-
Department of State Sub	ototal		53,279	-
National Endowment for the Humanities Direct Programs				
Promotion of the Humanities - Fellowships and Stipends	45.160		20,999	_
Promotion of the Humanities - Public Programs	45.164		119,584	-
National Endowment for the Humanities Sub	ototal		140,583	_
Department of Health & Human Services Maternal and Child Health Services Pass Through Programs				
Ohio Department of Health	93.994	B04MC21400-01-04	(1)	-

FEDERAL GRANTOR/PASS-THROUGH GRANTOR PROGRAM or CLUSTER TITLE	CFDA	Pass-Through Entity Sponsor Number	Total Expenditures	Passed to Sub-Recipients
National Institutes of Health				
Pass Through Programs				
Great Lakes Science Center	93.389 GLSC	(MACLEISH)	54,616	-
University of Mississippi	93.859 66662	060715-02	11,485	-
Substance Abuse and Mental Health Services Administration				
Pass Through Programs				
Ohio Department of Mental Health	93.150 99-309	95-ENGAGE-C-15-1552	1	-
Department of Health & Human Services Subtotal		66,101	-	
Total Other Federal	Assistance		259,963	-
RIO Cluster				
Department of Education				
Direct Programs				
TRIO Upward Bound	84.047		464,391	-
Special Education - Personnel Development to Improve Services and Results for Children with				
Disabilities	84.325		7,067	-
Total Department of Education – TRIO Cluster		471,458	-	
udent Financial Assistance Cluster				
Department of Education				
Direct Programs				
Federal Supplemental Educational Opportunity Grants	84.007		1,063,574	-
Federal Work-Study Program	84.033		1,469,105	-
Federal Perkins Loan				
Outstanding loans as of July 1, 2015	84.038		11,941,917	-
New loans issued during 2016	84.038		3,406,812	-
Federal Pell Grant Program	84.063		3,491,912	-
Federal Direct Student Loans	84.248		115,465,635	-
Nursing Student Loans				
Outstanding loans as of July 1, 2015	93.364		265,992	-
New loans issued during 2016	93.364		23,500	-
Health Professions Student Loans, Including Primary Care Loans				
Outstanding loans as of July 1, 2015	93.342		1,906,523	-
New loans issued during 2016	93.342		192,000	-
Loans for Disadvantaged Students				
Outstanding loans as of July 1, 2015	93.342		10,695	-
Total Department of Education – SI	FA Cluster		139,237,665	-
TOTAL EXPENDITURES OF FEDERAL	AWARDS		\$ 467,157,456	\$ 35,101,274

## A. Basis of Presentation

The accompanying Schedule of Expenditures of Federal Awards (the "Schedule") summarizes the expenditures of Case Western Reserve University (the "University") under programs of the federal government for the year ended June 30, 2016. The information presented in the Schedule is presented on the accrual basis of accounting, which is in accordance with the Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Because the Schedule presents only the federal award activity of the University, it is not intended to and does not present the financial position, changes in net assets and cash flows of the University.

Negative numbers in the Schedule represent adjustments to amounts reported in prior years in the normal course of business. Catalog of Federal Domestic Assistance ("CFDA") numbers and pass-through numbers are provided when available.

For purposes of the Schedule, federal awards include all grants, contracts and similar agreements entered into directly between the University and agencies and departments of the federal government and all sub-awards to the University by non-federal organizations pursuant to federal grants, contracts and similar agreements.

In May 2002, the University entered into an agreement with the Cleveland Clinic Foundation ("CCF") to form a new medical education and research program, Cleveland Clinic Lerner College of Medicine ("CCLCM"), within the University's School of Medicine. This is a collaborative arrangement between the University and CCF which is governed by the academic and research standards of the University. The results of both the academic and research operations of CCLCM are included in the University's accompanying consolidated financial statements. Beginning in fiscal 2004, research grants from the National Institutes of Health were awarded to and administered through the University in support of CCLCM investigators based at CCF. Oversight for the CCLCM grants is ultimately the responsibility of the Vice Dean for the University's School of Medicine, though day-to-day operations is delegated to CCF who abide by the research policies and procedures of the University. The University's indirect cost rate set by the Department of Health & Human Services is applied to the grants awarded for CCLCM. For these reasons, the awards in support of CCLCM investigators based at CCF are not presented as sub-recipient awards in the Schedule.

The University applies its predetermined approved facilities and administrative rate ascertained through negotiations with the U.S. Department of Health and Human Services 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. Pursuant to the agreement with the U.S. Department of Health and Human Services dated March 8, 2016, the final rate effective for the period July 1, 2015 to June 30, 2016 for on-campus research and for the CCLCM is 58.5% of modified total direct costs, while for off-campus research the rate is 26%. Provisional rates have been established for fiscal year 2017 and beyond.

## B. Directly Administered Student Loan Programs

The federal student loan programs listed below are administered directly by the University and balances and transactions relating to these programs are included in the University's basic financial statements. The balance of loans outstanding at June 30, 2016 consists of:

Title	CFDA Number	nt Outstanding me 30, 2016
Perkins Loan Program	84.038	\$ 12,861,710
Nursing Student Loan Program	93.364	220,952
Health Professions Student Loans, Including Primary Care Loans	93.342	1,788,067
Loan for Disadvantaged Students	93.342	 8,522
Total loan balances outstanding		\$ 14,879,251

# REPORTS ON INTERNAL CONTROL AND COMPLIANCE



### 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 Board of Trustees, Case Western Reserve University:

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 Case Western Reserve University (the "University"), which comprise the consolidated statements of financial position as of June 30, 2016, and the related consolidated statements of activities and of cash flows for the year then ended, and the related notes to the financial statements, and have issued our report thereon dated October 8, 2016.

## **Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting ("internal control") to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the 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 may exist that have not been identified.

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## **Compliance and Other Matters**

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

## **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.

Pricewaterhouse Coopers LLP

October 8, 2016



# Report of Independent Auditors on Compliance with Requirements That Could Have a Direct and Material Effect on Each Major Program and on Internal Control Over Compliance in Accordance with the Uniform Guidance

To the Board of Trustees, Case Western Reserve University:

## Report on Compliance for Each Major Federal Program

We have audited Case Western Reserve University's (the "University") compliance with the types of compliance requirements described in the *OMB Compliance Supplement* that could have a direct and material effect on each of Case Western Reserve University's major federal programs for the year ended June 30, 2016. The University's major federal programs are identified in the summary of auditor's results section of the accompanying schedule of findings and questioned costs.

## Management's Responsibility

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

# Auditors' Responsibility

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.

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## **Opinion on Each Major Federal Program**

In our opinion, Case Western Reserve University complied, in all material respects, with the types of 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, 2016.

## **Report on Internal Control Over Compliance**

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

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

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

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

Pricewaterhouse Coopers LLP

March 30, 2017

SCHEDULE OF FINDINGS AND QUESTIONED COSTS

# SECTION I – SUMMARY OF AUDITORS' RESULTS

### FINANCIAL STATEMENTS

Type of auditors report issued:	Unmodified
Internal control over financial reporting:	
<ul> <li>Material weakness(es) identified?</li> <li>Significant deficiency(ies) identified that are not considered to be material weakness(es)?</li> <li>Noncompliance material to financial statements noted?</li> </ul>	YesXNoYesXNone reportedYesXNo
FEDERAL AWARDS	
<ul> <li>Internal control over major programs:</li> <li>Material weakness(es) identified?</li> <li>Significant deficiency(ies) identified that are not considered to be material weakness(es)?</li> </ul>	Yes X No Yes X None reported
Type of auditors report issued on compliance for major programs:	Unmodified
Any audit findings disclosed that are required to be reported in accordance with 2 CFR 200.516(a)?	YesX_No
IDENTIFICATION OF MAJOR PROGRAMS	
<u>CFDA Number(s)</u> Various Dollar threshold used to distinguish between Type A and Type B programs:	<u>Name of Federal Program or Cluster</u> Research and Development Cluster \$3,000,000
Auditee qualified as low-risk auditee?	<u>X</u> Yes <u>No</u>

# SECTION II – FINANCIAL STATEMENT FINDINGS

No findings to be reported.

## SECTION III – FEDERAL AWARD FINDINGS AND QUESTIONED COSTS

No findings to be reported.

# SUMMARY OF STATUS OF FINDINGS FROM PRIOR AUDITS

There are no findings from prior years that require an update in this report.