Federal Awards Supplemental Information June 30, 2020

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

Independent Auditor's Report

To the Board of Trustees Central Michigan University

We have audited the financial statements of Central Michigan University (the "University") and its discretely presented component units as of and for the year ended June 30, 2020 and the related notes to the financial statements, which collectively comprise the University's basic financial statements. We issued our report thereon dated September 24, 2020, which contained an unmodified opinion on the financial statements. Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the basic financial statements. We have not performed any procedures with respect to the audited financial statements subsequent to September 24, 2020. We did not audit the financial statements of Central Health Advancement Solutions (CHAS) or the Institute for Excellence in Education (IEE), which represent all of the assets, net assets, and revenue of the discretely presented component units. Those financial statements were audited by other auditors whose report thereon has been furnished to us, and our opinion, insofar as it relates to the amounts included for CHAS and IEE, is based on the report of the other auditors.

The accompanying schedule of expenditures of federal awards is presented for the purpose of additional analysis, as required by the Uniform Guidance, and is not a required part of the basic 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 financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.

Alente i Moran, PLLC

January 26, 2021





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

Independent Auditor's Report

To Management and the Board of Trustees Central Michigan 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 financial statements of Central Michigan University (the "University") and its discretely presented component units as of and for the year ended June 30, 2020 and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated September 24, 2020. Our report includes reference to other auditors who audited the financial statements of Central Health Advancement Solutions (CHAS) and the Institute for Excellence in Education (IEE), as described in our report on Central Michigan University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors. The financial statements of CHAS and IEE were not audited in accordance with *Government Auditing Standards*.

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) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions 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 University's financial statements will not be prevented, or detected and corrected, on a timely basis. A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

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

Compliance and Other Matters

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



To Management and the Board of Trustees Central Michigan University

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.

Alante i Moran, PLLC

September 24, 2020



Report on Compliance for Each Major Federal Program and Report on Internal Control Over Compliance Required by the Uniform Guidance

Independent Auditor's Report

To the Board of Trustees Central Michigan University

Report on Compliance for Each Major Federal Program

We have audited Central Michigan University's (the "University") compliance with the types of compliance requirements described in the U.S. Office of Management and Budget (OMB) Compliance Supplement that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2020. 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.

Auditor's 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* (the "Uniform Guidance"). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

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

Opinion on Each Major Federal Program

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of the major federal programs for the year ended June 30, 2020.

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.



To the Board of Trustees Central Michigan University

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

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

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

Alante i Moran, PLLC

January 26, 2021

Schedule of Expenditures of Federal Awards

Year Ended June 30, 2020

Federal Agencies/Grant Name	Direct/Pass- through	Federal Catalog Number	Federal or Pass- through Number	Passed through to Subrecipients	Federal Expenditures
Student Financial Assistance Cluster					
U.S. Department of Education					
Federal Work Study 2019-20	Direct	84.033	P033A191985	\$-	\$ 1,101,188
Federal Supplemental Educational Opportunity Grant 2019-20	Direct	84.007	P007A191985	-	504,106
Federal Pell Grant Program 2017-18	Direct	84.063	P063P170222	-	15
Federal Pell Grant Program 2018-19	Direct	84.063	P063P180222	-	(6,851)
Federal Pell Grant Program 2019-20	Direct	84.063	P063P190222	-	23,014,589
William D. Ford Federal Direct Loan Sub Prog 2018-19 William D. Ford Federal Direct Loan Unsub Prog 2018-19	Direct Direct	84.268 84.268	P268K190222 P268K190222	-	15,197 99,612
William D. Ford Federal Direct Loan Plus Prog 2018-19	Direct	84.268	P268K190222	-	259,779
William D. Ford Federal Direct Loan Sub Prog 2019-20	Direct	84.268	P268K200222	_	28,405,720
William D. Ford Federal Direct Loan Unsub Prog 2019-20	Direct	84.268	P268K200222	_	75.879.638
William D. Ford Federal Direct Loan Plus Prog 2019-20	Direct	84.268	P268K200222	-	39,941,161
Teacher Education Assistance for College and Higher Education Grant 2019-20	Direct	84.379	P379T200222		37,061
Total Student Financial Assistance Cluster				-	169,251,215
TRIO Cluster U.S. Department of Education					
CMU - Educational Talent Search 2018-19	Direct	84.044A	P044A160830-18	-	75,123
Upward Bound STEM NW	Direct	84.047A	P047A171420-18B	-	12,778
Upward Bound STEM SW	Direct	84.047A	P047A171511-18B	-	10,766
CMU - TRIO Upward Bound Northwest Detroit 2018-19	Direct	84.047A	P047A171420-18	-	115,883
CMU - TRIO Upward Bound Southwest Detroit 2018-19	Direct	84.047A	P047A171511-18	-	88,968
Preparation for Success: CMU's Ronald E. McNair Scholars Program 2018-19	Direct	84.217A	P217A170155-18	-	49,539
CMU - TRIO Upward Bound Northwest Detroit 2019-20	Direct	84.047A	P047A171420-19	-	165,378
CMU - TRIO Upward Bound Southwest Detroit 2019-20	Direct	84.047A	P047A171511-19	-	135,124
CMU - Educational Talent Search 2019-20 STEM	Direct	84.044A	P044A160830-19A	-	17,773
CMU - Educational Talent Search 2019-20 Preparation for Success: CMU's Ronald E. McNair Scholars Program 2019-20	Direct Direct	84.044A 84.217A	P044A160830-19 P217A170155-19	-	133,061 174,708
Total TRIO Cluster				-	979,101
Research and Development Cluster					
U.S. Department of Commerce National Oceanic and Atmospheric Administration Passed through Michigan Department of Environment, Great Lakes and Energy					
Underwater Cultural Resources Public Access and Research Conference Passed through University of Michigan	Pass-through	11.419	20-PA-002	-	38,191
The Role of Dreissenid Mussels in Transforming Nutrient Loads into Algal Blooms The Environmental and Physiological Limits of Invasive Round Gobies	Pass-through Pass-through	11.432 11.432	SUBK00009207 SUBK00011193	-	5,914 11,436
Estimates of Production and Occurrence of Potentially Harmful Algal Blooms	Pass-through	11.432	SUBK00011168	-	47,656
Passed through North Carolina State University Prediction of Heavy Banded Snowfall: Resolution Requirements	Pass-through	11.468	2016-1519-01	-	1,024
Total U.S. Department of Commerce	Ū			-	104,221
U.S. Department of Defense					
Passed through Duke University Spectral Sampling Algorithms for Element Substitution in Critical Technologies	Pass-through	12.300	14-ONR-1007	_	66,366
U.S. National Security Agency	Direct	12.901	H98230-19-1-0267		13,153
International Conference on Statistical Distributions and Applications Total U.S. Department of Defense	Direct	12.901	198230-19-1-0207		79,519
U.S. Department of Interior				-	79,519
U.S. Fish and Wildlife Service	B . (45 000	E404 B00010	o	
Surveys and Habitat Modeling for Native Mussels on Detroit and St. Clair Rivers	Direct	15.608	F18AP00612	21,256	95,760
Expanding a Decision Support Tool for Great Lakes Coastal Wetlands Mussel Primary Mix Exposure - Mussels, Host Fish, Streamside, and Purge Studies	Direct Direct	15.670 15.678	F19AP00137 F17AC00151	51,846 10,000	66,535 2,804
Passed through Winous Point Marsh Conservancy Developing Habitat Occupancy Models for King Rails in the Great Lakes Region	Pass-through	15.637	001 / F19AP00330	-	32,960
Passed through Michigan State University Poweshiek Skipperling Adaptive Management Framework	Pass-through	15.662	RC108738	-	1,908
Poweshiek Skipperling Conservation: Habitat Management Plans Passed through Michigan Department of Environmental Quality	Pass-through	15.662	RC110074	-	6,813
European Frog-Bit Adaptive Management Framework Passed through Clemson University	Pass-through	15.662	2018-0213	-	156,845
Visitor Use Management for Polar Bear Viewing at Arctic National Wildlife Refuge U.S. Geological Survey	Pass-through	15.678	1912-216-2011802	-	2,339
Functional Indicators of Coastal Wetland Conditions-Phase II	Direct	15.808	G16AC00308	21,705	15,738
Total U.S. Department of Interior				104,807	381,702
U.S. Department of Justice National Institute of Justice Research Assistantship Program	Direct	16.RD	DJO-NIJ-18-RO-0504	-	2,979
	Diroot		200 100 10-100-0004	-	2,010

Schedule of Expenditures of Federal Awards (Continued)

Year Ended June 30, 2020

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	Direct/Pass-	Federal Catalog	Federal or Pass-	Passed through	Federal	
Federal Agencies/Grant Name	through	Number	through Number	to Subrecipients	Expenditures	
search and Development Cluster (Continued)						
National Science Foundation Collaborative Research: Enriching the Professional Dev. of School Teachers	Direct	47.041	EEC-1542368	\$-	\$ 82,735	
Supporting Rural Secondary School Student Learners in Developing Engineering	Direct	47.041	1542368	-	917	
Conference Proposal - Food and Innovation Sustainable Urban Cities Rural-Urban	Direct	47.041	1929914	-	31,455	
Some Problems in Several Complex Variables	Direct	47.049	1600371	-	7,108	
Precision Measurements with the CHIP-TRAP	Direct	47.049	PHY-1607429	-	69,252	
High-Precision Optical Long-Based Interferometry Physics CAREER: Chemical Tools for Understanding the Mycomembrane of Corynebacterineae	Direct Direct	47.049 47.049	1614983 1654408	-	18,490 139,079	
Beta-Decay Experiments Along the r-Process Path	Direct	47.049	1714153	-	65,558	
Enumerative Geometry of Hitchin Systems and TQFT	Direct	47.049	1802082	-	38,870	
Collab: Microscopic Fracturing and Macroscopic Weakening: A Novel Model	Direct	47.050	1755274	-	7,648	
Improving High-Impact Hail Event Forecasts by Linking Hail Environments	Direct	47.050	1855054	-	56,966	
Collaborative Research: Transantarctic Dispersal Corridors	Direct	47.050	1916665	-	41,514	
CAREER: Toward a Global Understanding of Severe Convective Environments	Direct	47.050	1945286	-	10,186	
CAREER: MicroRNA Pathways Controlling Development After Diapause RCN-UBE: Biodiversity Literacy in Undergraduate Education - BLUE Data Network	Direct Direct	47.074 47.074	1652283 1730526	4,202	101,179 61,234	
Engaging Underrepresented Populations in Biodiversity Sciences	Direct	47.074	1746715	4,202	9,719	
REU Site: Great Lakes Ecosystem Research to Build Foundations for STEM Futures	Direct	47.074	1757418	-	37,876	
Securing the Safety of Critical Great Lakes Alcohol Preserved Specimens	Direct	47.074	DBI-1840725	-	91,787	
Collaborative Research: The Impact of Face-to-Face and Remote Interviewing	Direct	47.075	1654828	-	19,748	
Practical Active Learning Stations	Direct	47.076	1608043	1,016	17,819	
Understanding the Barriers to Institutional Success for Women in STEM at CMU	Direct	47.076	1937011	-	86,115	
Passed through University of Illinois						
Spectra of Linear Differential Operators and Turbulence in Integrable Systems	Pass-through	47.049	088193-16877	-	5,734	
Passed through Columbia University		17.050	77/0 0000000		0.40	
Post-Expedition Research Activity (PEA), IODP Expedition 381	Pass-through	47.050	77(GG009393)	-	6,467	
Passed through Colorado Schools of Mines	Dees through	47.050	404574 5900		6,254	
CZ RCN: Building Capacity to Thicken the Critical Zone: Expanding Boundaries Passed through Brown University	Pass-through	47.050	401574-5802	-	0,234	
NeuroNex Technology Hub: Bioluminescence for Optimal Brain Control and Imaging	Pass-through	47.074	#00001106	-	326,584	
Passed through University of Arizona	r doo anough				020,001	
Gene Regulatory Networks in the Maize Endosperm	Pass-through	47.074	316615	-	110,057	
Passed through Montclair State University	0					
Reliability of Evidence and Testimony in Child Maltreatment Cases	Pass-through	47.075	1946687	-	14,193	
Passed through Salish Kootenai College						
All Nations Louis Stokes Alliance for Minority Participation 2018-19	Pass-through	47.076	CMU2018-2	-	(2	
All Nations Louis Stokes Alliance for Minority Participation 2019-20	Pass-through	47.076	CMU-18-2	-	5,650	
Passed through Michigan State University	Dens theread	47.070	DOMAGONIU		44.004	
AccelNet: International Research Network for Nuclear Astrophysics (IReNA)	Pass-through	47.079	RC110338CMU		11,821	
Total National Science Foundation				5,218	1,482,013	
Environmental Protection Agency						
Coastal Wetland Monitoring: Continued Implementation by GLCWC	Direct	66.469	GL-00E01567-0	1,061,773	2,146,796	
Early Detection of Oligochaetes and Chironmidaes in the Great Lakes	Direct	66.469	GL-00E02225-0	2,484	50,720	
Passed through Michigan Department of Environmental Quality						
Using Indices of Biotic Integrity for Assessing Wetland Health in Michigan	Pass-through	66.419	W490089-16-1	-	37,311	
Passed through The Nature Conservancy						
Integrated Pest Management of Rusty Crayfish	Pass-through	66.469	010318-1	-	72,295	
Passed through Michigan Department of Environment, Great Lakes and Energy						
Nex Gen Michigan Environmental Education Curriculum	Pass-through	66.469	GL-00E02479-0	-	15,523	
European Frog-Bit: Assessing Impacts and On-Going Management	Pass-through	66.469	2019-EFB1		97,074	
Total Environmental Protection Agency				1,064,257	2,419,719	
				1,001,201	2,110,710	
U.S. Department of Energy						
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis	Direct	81.049	DE-SC0014285	-		
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements	Direct	81.049	DE-SC0015927	-	91,027	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering	Direct Direct	81.049 81.049	DE-SC0015927 DE-SC0006877	-	91,027 80,420	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density	Direct Direct Direct	81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027	- - - -	91,027 80,420 11,745	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations	Direct Direct Direct Direct	81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331	- - - 868,505	91,027 80,420 11,745 1,328,216	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics	Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406	- - 868,505 -	91,027 80,420 11,745 1,328,216 71,346	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element	Direct Direct Direct Direct	81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331		91,027 80,420 11,745 1,328,216 71,346	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California	Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285		91,027 80,420 11,745 1,328,216 71,346 50,012	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties	Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406		91,027 80,420 11,745 1,328,216 71,346 50,012	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California	Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285		91,027 80,420 11,745 1,328,216 71,346 50,012 178,977	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina	Direct Direct Direct Direct Direct Direct Pass-through	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210		91,027 80,420 11,745 1,328,216 71,346 50,012 178,977	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3	Direct Direct Direct Direct Direct Direct Pass-through	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210		91,027 80,420 11,745 1,328,216 71,346 50,012 178,977 5,460	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification	Direct Direct Direct Direct Direct Direct Pass-through Pass-through	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975	- - -	91,027 80,420 11,745 1,328,216 71,346 50,012 178,977 5,460 32,557	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona	Direct Direct Direct Direct Direct Direct Pass-through Pass-through	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975		91,027 80,420 11,745 71,346 50,012 178,977 5,460 32,557	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification	Direct Direct Direct Direct Direct Direct Pass-through Pass-through	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975	- - -	91,027 80,42(11,74 1,328,216 71,346 50,012 178,977 5,460 32,557	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health	Direct Direct Direct Direct Direct Pass-through Pass-through	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC0020406 DE-SC002406 DE-SC0014285 111238210 5103975 548871	- - - - 868,505	91,027 80,420 11,745 1,328,216 71,346 50,012 178,977 5,460 <u>32,557</u> 1,856,502	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Dispartiles in Diabetes Comorbidities and Multiple Chronic Conditions	Direct Direct Direct Direct Direct Pass-through Pass-through Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087	DE-SC0015927 DE-SC0005027 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1	- - - 868,505 12,784	91,027 80,422 11,745 71,346 50,012 178,977 5,460 32,557 1,856,502 80,417	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3	Direct Direct Direct Direct Direct Pass-through Pass-through Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.847 93.853	DE-SC0015927 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03	- - - - 868,505	91,02; 80,42; 11,744 1,328,216 71,344 50,012 178,97; 5,466 <u>32,55;</u> 1,856,502 80,411 209,796	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through PID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Johnston Diversity Supplement Year 2	Direct Direct Direct Direct Direct Pass-through Pass-through Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.847 93.853 93.853	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03	- - - 868,505 12,784 256,006 -	91,022 80,422 11,744 1,328,216 71,344 50,012 178,977 5,460 <u>32,557</u> 1,856,502 80,417 209,796 77	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Johnston Diversity Supplement Year 2 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2	Direct Direct Direct Direct Direct Pass-through Pass-through Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.847 93.853 93.853 93.853	DE-SC0015927 DE-SC0005027 DE-SC0005027 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 5U01NS099709-03	- - - 868,505 12,784	91,027 80,422 11,745 71,346 50,012 178,977 5,460 32,557 1,856,502 80,417 209,796 76 910	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2	Direct Direct Direct Direct Direct Pass-through Pass-through Pass-through Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.853 93.853 93.853 93.853	DE-SC0015927 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 5U01NS099709-03	- - - 868,505 12,784 256,006 - -	91,027 80,422 11,744 1,328,216 71,346 50,012 178,977 5,466 32,557 1,856,502 80,417 209,796 76 91(1) (2,493	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Biryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG): Chemoenzymatic Synthesis of Trehalose Analogs for Investigating Mycobacteria	Direct Direct Direct Direct Direct Pass-through Pass-through Pass-through Direct Direct Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.853 93.853 93.853 93.853 93.853 93.853	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 5U01NS099709-03 3U01NS099709-03 1R15A1117670-01	- - - 868,505 12,784 256,006 -	91,022 80,42C 11,744 1,328,216 71,344 50,012 178,977 5,460 <u>32,557</u> 1,856,502 1,856,502 80,417 209,796 77 911 (2,493 34,861	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG) Chemoenzymatic Synthesis of Trehalose Analogues	Direct Direct Direct Direct Direct Pass-through Pass-through Pass-through Direct Direct Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.853 93.853 93.853 93.855 93.855 93.855	DE-SC0015927 DE-SC0005027 DE-SC0005027 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 3U01NS099709-03 3U01NS099709-03 3U01NS099709-03 1R15Al117670-01 2R15Al117670-02	- - - 868,505 12,784 256,006 - -	91,027 80,420 11,745 1,328,216 71,346 50,012 178,977 5,460 32,557 1,856,502 80,417 209,796 80,417 209,796 910 (2,493 34,861 10,215	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG) Chemoenzymatic Synthesis of Trehalose Analogs for Investigating Mycobacteria Chemoenzymatic Synthesis of Trehalose Analogues Examining the Role of Extracellular Vesicles in Inflammation	Direct Direct Direct Direct Direct Pass-through Pass-through Pass-through Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.853 93.853 93.853 93.853 93.855 93.855 93.855	DE-SC0015927 DE-SC0005027 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 5U01NS099709-03 3U01NS099709-03 3U01NS099709-03 1R15Al117670-01 2R15GM132992-01A1	- - - 868,505 12,784 256,006 - - - 14,264	91,027 80,420 11,745 1,328,216 71,346 50,012 178,977 5,460 32,557 1,856,502 80,417 209,796 78 910 (2,493 34,861 10,215 47,611	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Biryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG) Chemoenzymatic Synthesis of Trehalose Analogs for Investigating Mycobacteria Chemoenzymatic Synthesis of Trehalose Analogues Examining the Role of Extracellular Vesicles in Inflammation Stem Cell Multipotency During Quiescence	Direct Direct Direct Direct Direct Pass-through Pass-through Pass-through Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.847 93.853 93.853 93.853 93.855 93.855 93.855 93.855 93.859 93.859	DE-SC0015927 DE-SC0006877 DE-SC0005027 DE-SC0020406 DE-SC002406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 3U01NS099709-03 3U01NS099709-03 1U1NS09709-03 1U1NS09709-03 1U1NS097000000000000000000000000000000	- - - - - - - - - - - - - - - - - - -	6,742 91,027 80,420 11,745 71,346 50,012 178,977 5,460 32,557 1,856,502 80,417 209,796 78 910 (2,493 34,861 10,215 47,611 6,644 8,831	
Investigation of the Role of the VP-Process in Heavy Element Nucleosynthesis High-Precision Penning Trap Measurements In Operando and Element Specific X-Ray Scattering Computational Methods Based on Density FLO-SIC: Efficient Density Functional Theory Calculations Time-of-Flight Experiments for Nuclear Structures and Astrophysics Renewal Proposal: Investigation of the Role of Nuclear Physics in Heavy Element Passed through University of Southern California Quantum Computation for Quantum Prediction of Materials and Molecular Properties Passed through University of North Carolina Nuclear Theory for Double-Beta Decay and Fundamental Symmetries Year 3 Passed through RAPID Institute then passed through the University of Arizona Rapid Integrated Course: Emerging Membrane Processes for Water Purification Total U.S. Department of Energy U.S. Department of Health and Human Services National Institutes of Health Disparities in Diabetes Comorbidities and Multiple Chronic Conditions BioLuminescent OptoGenetics (BL-OG): A Novel and Versatile Strategy Year 3 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 BioLuminescent OptoGenetics (BL-OG): Shafau Diversity Supplement Year 2 Bryant Diversity Supplement to BioLuminescent OptoGenetics (BL-OG) Chemoenzymatic Synthesis of Trehalose Analogs for Investigating Mycobacteria Chemoenzymatic Synthesis of Trehalose Analogues Examining the Role of Extracellular Vesicles in Inflammation	Direct Direct Direct Direct Direct Pass-through Pass-through Pass-through Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct Direct	81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.049 81.087 93.853 93.853 93.853 93.853 93.855 93.855 93.855	DE-SC0015927 DE-SC0005027 DE-SC0005027 DE-SC 0018331 DE-SC0020406 DE-SC0014285 111238210 5103975 548871 1R15DK104260-01A1 5U01NS099709-03 5U01NS099709-03 5U01NS099709-03 3U01NS099709-03 3U01NS099709-03 1R15Al117670-01 2R15GM132992-01A1	- - - 868,505 12,784 256,006 - - - 14,264	91,027 80,420 11,745 1,328,216 71,346 50,012 178,977 5,460 32,557 1,856,502 80,417 209,796 78 910 (2,493 34,861 10,215 47,611	

See notes to schedule of expenditures

of federal awards.

Schedule of Expenditures of Federal Awards (Continued)

Year Ended June 30, 2020

Federal Agencies/Grant Name	Direct/Pass- through	Federal Catalog Number	Federal or Pass- through Number	Passed through to Subrecipients	Federal Expenditures
esearch and Development Cluster (Continued)		- Humbol	anough Humbon		Exponditation
U.S. Department of Health and Human Services (Continued)					
National Institutes of Health (Continued)					
Chemical and Molecular Mechanisms of Mitochondrial DNA Degradation	Direct	93.859	1R35GM128854-01	\$ 3,553	
Genes, Education, and Gene-Education Interactions in Obesity and Mental Health	Direct	93.865	1R01HD094011-01	175,247	237,14
Improving Parent-Child Interactions to Prevent Obesity in Early Childhood	Direct	93.865	1R21HD093944-01	39,752	159,57
Generating Mouse Models of Amyloid Beta and Tau Proteinopathy in AD Non-Invasive Nanoparticle Platform for Tool Delivery to the Brain	Direct Direct	93.866 93.867	1R03AG060144-01	-	75,73
Crespo Supplement: Non-Invasive Nanoparticle Platform for Tool Delivery	Direct	93.867	1R21EY030012-01 3R21EY030012-01S1	-	141,89 46,72
Passed through Emory University	Direct	33.007	312121030012-0131		40,72
Environmental Contamination in Michigan: Engaging Communities in Aftermath Passed through Michigan State University	Pass-through	93.113	A073659	-	21,43
Prenatal Exposures and Child Health Outcomes: A Statewide Study	Pass-through	93.310	RC108889CMU	-	33,39
Influence of Chronic Systemic Inflammation on Sporadic Alzheimer's Disease	Pass-through	93.866	RC 108278CMU	-	39,7
Passed through Wayne State University					
Translating an Efficacious Illness Management Intervention for African American	Pass-through	93.838	WSU20049	-	4,6
Passed through University of Utah					
Pediatric Critical Care and Trauma Scientist Development Program	Pass-through	93.865	10051369-07POU000243339	-	48,1
Passed through Regents of the University of California, San Diego	Den e Alexande	00.007	405500057		00.0
Highly Specific Control of Neurons w/ Photoswitchable Bioluminescent Optogentics	Pass-through	93.867	125522057		33,29
Total U.S. Department of Health and Human Services				504,016	1,385,9
Total Research and Development Cluster				2,546,803	7,712,5
her Federal Awards					
U.S. Department of Agriculture					
Educating Physicians for Rural Practice: Comprehensive Community Clerkship	Direct	10.855	MI 741-B16	-	20,1
Passed through Michigan Department of Education	Den e Alexande	40.550	070005047		
Child and Adult Care Food Program 2018-19	Pass-through	10.558	370005017	-	4,5
Child and Adult Care Food Program 2019-20	Pass-through	10.558	370005017		16,9
Total U.S. Department of Agriculture				-	41,5
U.S. Department of Transportation					
National Highway Traffic Safety Administration					
Passed through Michigan State Police					
Next Generation 911 Equipment Upgrade	Pass-through	20.615	69N37619300000911M10	-	97,7
	Ū.				
Library of Congress Passed through Open World Leadership Center then passed through Family Health International Open World, FHI 360 Global Connections, Judicial Rule of Law in Kazakhstan	Pass-through	42.U01	OWLC-1901	-	10,89
National Endowment for the Humanities					
Digitization of Michigan Newspapers	Direct	45.149	PJ-50100-12	-	86,5
U.S. Department of Education					
DeafBlind Central: Michigan's Training and Resource Project	Direct	84.326T	H326T180045	-	69,9
DeafBlind Central: Michigan's Training and Resource Project Year 2	Direct	84.326T	H326T180045-19	-	172,2
COVID-19 - CARES Act: Higher Education Emergency Relief Fund - Student Aid 18004(a)(1)	Direct	84.425E	P425E203123	-	5,718,7
COVID-19 - CARES Act: Higher Education Emergency Relief Fund - Institutional Portion 18004(a)(1)	Direct	84.425F	P425F202333	-	5,184,1
Passed through Michigan Department of Talent and Economic Development					
Michigan GEAR UP 2017-2018	Pass-through	84.334S	16-00-01		19,1
Total U.S. Department of Education				-	11,164,1
					11,104,
U.S. Department of Health and Human Services					
Administration for Community Living					
Passed through Region VII Area Agency on Aging	Pass-through	93.U01	NA		1,
Capacity Building Aided By Experiential Learning: Fall Prevention Year 2 Capacity Building Aided by Experiential Learning: Fall Prevention Period 3	Pass-through	93.U01 93.U01	NA	-	17,
Capacity Building Aided by Experiential Learning: Fall Prevention Period 3	Pass-through	93.U01	NA		27,
Health Resources & Services Administration	i doo unougn	00.001			2.,
Passed through Wayne State University					
Audiology Competitive Supplement to MI-LEND Year 3	Pass-through	93.110	WSU 19013	-	
Michigan Leadership Education in Neurodevelopmental Disabilities Year 4	Pass-through	93.110	WSU19094	-	21,7
Audiology Competitive Supplement to MI-Lend Year 4	Pass-through	93.110	WSU19099	-	14,2
Substance Abuse and Mental Health Services Administration					
Interprofessional Training Project to Expand Access to Medication-Assisted	Direct	93.243	1H79TI081679-01	26,818	37,4
Interprofessional Training Project to Expand Access to Medication-Assisted	Direct	93.243	5H79TI081679-02	-	94,
Passed through American Academy of Addition Psychiatry then passed through					
Physician Assistant Education Association	Den e Alexande	00.1100			70
Medication Assistant Therapy Waiver Project Medication Assisted Treatment Waiver Training Initiative Supplement	Pass-through Pass-through	93.U02 93.U02	NA NA	-	73,
Medication Assisted freatment waiver fraining initiative Supplement	Fass-tillough	93.002	NA		9,
				26,818	297,
Total U.S. Department of Health and Human Services					
U.S. Department of Homeland Security					
U.S. Department of Homeland Security Federal Emergency Management Agency					
U.S. Department of Homeland Security Federal Emergency Management Agency Passed through Michigan State Police		o ·			_
U.S. Department of Homeland Security Federal Emergency Management Agency	Pass-through	97.047	PDMC-PJ-05-MI-2017-008	<u> </u>	37,5
U.S. Department of Homeland Security Federal Emergency Management Agency Passed through Michigan State Police	Pass-through	97.047	PDMC-PJ-05-MI-2017-008		
U.S. Department of Homeland Security Federal Emergency Management Agency Passed through Michigan State Police 2017 Pre-Disaster Mitigation Grant - South Campus Mitigation	Pass-through	97.047	PDMC-PJ-05-MI-2017-008		<u> </u>

Notes to Schedule of Expenditures of Federal Awards

Year Ended June 30, 2020

Note 1 - Basis of Presentation

The accompanying schedule of expenditures of federal awards (the "Schedule") includes the federal grant activity of Central Michigan University (the "University") under programs of the federal government for the year ended June 30, 2020. The information in the Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (the "Uniform Guidance"). Because the Schedule presents only a selected portion of the operations of the University, it is not intended to and does not present the financial position, changes in net position, or cash flows of the University.

Note 2 - Summary of Significant Accounting Policies

Expenditures reported in the Schedule are reported on the accrual basis of accounting. Such expenditures are recognized following, as applicable, either the cost principles in OMB Circular A-21, *Cost Principles for Educational Institutions*, or the cost principles contained in Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, wherein certain types of expenditures are not allowable or are limited as to reimbursement. Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years. Pass-through entity identifying numbers are presented where available.

The University has elected not to use the 10 percent *de minimis* indirect cost rate to recover indirect costs, as allowed under the Uniform Guidance.

Schedule of Findings and Questioned Costs

Year Ended June 30, 2020

Section I - Summary of A	uditor's Results				
Financial Statements					
Type of auditor's report issued:		Unmod	ified		
Internal control over financial repor	ting:				
Material weakness(es) identified	1?		Yes	Х	No
 Significant deficiency(ies) identi not considered to be materia 			Yes	X	None reported
Noncompliance material to financia statements noted?	al		Yes	X	None reported
Federal Awards					
Internal control over major program	IS:				
Material weakness(es) identified	1?		Yes	Х	No
 Significant deficiency(ies) identi not considered to be materia 			Yes	X	None reported
Any audit findings disclosed that ar accordance with Section 2 CFR			Yes	X	No
Identification of major programs:					
CFDA Number	Name of Federal I	Program or Clu	Opinion		
84.007, 84.033, 84.063, 84.268, 84.379 84.425E and 84.425F	Unmodified Unmodified				
Dollar threshold used to distinguish type A and type B programs:	between	\$750,000			
Auditee qualified as low-risk audite	e?	X	Yes		No

Section II - Financial Statement Audit Findings

None

Section III - Federal Program Audit Findings

None