



MICHIGAN STATE UNIVERSITY  
**BOARD OF TRUSTEES**  
Executive Action Summary

Gift, Grant and Contract Report

**From:** Gift, Grant and Contract Report

**Date** December 15, 2023

**Agenda Item:** Gift, Grant and Contract Report

**Information**

**Discussion**

**Action**

**Resolution:**

BE IT RESOLVED that the Board of Trustees approve acceptance of gifts, grants and contracts as listed in the attached report.

**Recommendation:**

That the Board of Trustees approve the attached Gift, Grant and Contract Report for the period of August 10, 2023 through November 13, 2023.

**Prior Action by BOT:** Not applicable.

**Responsible Officers:** Douglas A. Gage, Vice President for Research and Innovation

**Summary:** See recommendation above.

**Background Information:**

FY 2023-24 TOTALS:

- a) Gifts, Grants and Contracts only: \$488,458,983
  - b) Gifts, Grants and Contracts plus Consignments: \$489,098,967
- (Consignments are Non-Cash Gifts and Non-Cash Loans)

**Source of Funds:** Various sponsors including Federal Government, State of Michigan, Foundation, Association, Industry, Individual Donors/Advancement, and Others as listed in the attachment.

**Resource Impact:** The report is a compilation of 697 Gifts, Grants and Contracts plus 34 Consignment/Non-Cash Gifts, with a total value of \$306,308,890.

## Current Period / Year to Date

### Gift & Grant Awards

Meeting Date: 12/15/2023

Current Period: Aug 10, 2023 - Nov 13, 2023

#### AWARD TOTALS

| Research                      |                      |                      |                |
|-------------------------------|----------------------|----------------------|----------------|
| Gift/Grant Source             | Current Period       | Year to Date         | % of Total YTD |
| Federal Government            | \$221,699,847        | \$316,123,892        | 92.4%          |
| State of Michigan             | \$4,113,768          | \$5,455,328          | 1.6%           |
| Other                         | \$3,369,511          | \$7,600,362          | 2.2%           |
| Industry/CO                   | \$2,282,690          | \$4,194,897          | 1.2%           |
| Foundation                    | \$2,942,926          | \$7,326,567          | 2.1%           |
| Association                   | \$575,431            | \$1,338,929          | 0.4%           |
| <b>Research - Total</b>       | <b>\$234,984,173</b> | <b>\$342,039,975</b> | <b>100%</b>    |
| Non-Research                  |                      |                      |                |
| Gift/Grant Source             | Current Period       | Year to Date         | % of Total YTD |
| Federal Government            | \$33,012,943         | \$70,983,200         | 48.5%          |
| State of Michigan             | \$2,321,706          | \$4,240,067          | 2.9%           |
| Other                         | \$9,890,707          | \$10,490,358         | 7.2%           |
| Industry/CO                   | \$4,461,441          | \$6,364,016          | 4.3%           |
| Foundation                    | \$3,562,718          | \$4,811,012          | 3.3%           |
| Association                   | \$44,000             | \$60,000             | 0.0%           |
| Various Donors - Advancement* | \$17,450,826         | \$49,470,355         | 33.8%          |
| <b>Non-Research - Total</b>   | <b>\$70,744,341</b>  | <b>\$146,419,008</b> | <b>100%</b>    |
| Total                         |                      |                      |                |
| Gift/Grant Source             | Current Period       | Year to Date         | Amount % YTD   |
| Federal Government            | \$254,712,790        | \$387,107,092        | 79.3%          |
| State of Michigan             | \$6,435,474          | \$9,695,395          | 2.0%           |
| Other                         | \$13,260,218         | \$18,090,720         | 3.7%           |
| Industry/CO                   | \$6,744,131          | \$10,558,913         | 2.2%           |
| Foundation                    | \$6,505,644          | \$12,137,579         | 2.5%           |
| Association                   | \$619,431            | \$1,398,929          | 0.3%           |
| Various Donors - Advancement* | \$17,450,826         | \$49,470,355         | 10.1%          |
| <b>TOTAL</b>                  | <b>\$305,728,514</b> | <b>\$488,458,983</b> | <b>100%</b>    |

#### # OF AWARDS

| Research                      |                |              |                |
|-------------------------------|----------------|--------------|----------------|
| Gift/Grant Source             | Current Period | Year to Date | % of Total YTD |
| Federal Government            | 353            | 653          | 68.0%          |
| State of Michigan             | 16             | 26           | 2.7%           |
| Other                         | 72             | 132          | 13.7%          |
| Industry/CO                   | 40             | 91           | 9.5%           |
| Foundation                    | 16             | 41           | 4.3%           |
| Association                   | 10             | 18           | 1.9%           |
| <b>Research - Total</b>       | <b>507</b>     | <b>961</b>   | <b>100%</b>    |
| Non-Research                  |                |              |                |
| Gift/Grant Source             | Current Period | Year to Date | % of Total YTD |
| Federal Government            | 89             | 152          | 51.4%          |
| State of Michigan             | 15             | 24           | 8.1%           |
| Other                         | 31             | 45           | 15.2%          |
| Industry/CO                   | 30             | 36           | 12.2%          |
| Foundation                    | 21             | 33           | 11.1%          |
| Association                   | 3              | 4            | 1.4%           |
| Various Donors - Advancement* | 1              | 2            | 0.7%           |
| <b>Non-Research - Total</b>   | <b>190</b>     | <b>296</b>   | <b>100%</b>    |
| Total                         |                |              |                |
| Gift/Grant Source             | Current Period | Year to Date | Count % YTD    |
| Federal Government            | 442            | 805          | 64.0%          |
| State of Michigan             | 31             | 50           | 4.0%           |
| Other                         | 103            | 177          | 14.1%          |
| Industry/CO                   | 70             | 127          | 10.1%          |
| Foundation                    | 37             | 74           | 5.9%           |
| Association                   | 13             | 22           | 1.8%           |
| Various Donors - Advancement* | 1              | 2            | 0.2%           |
| <b>TOTAL</b>                  | <b>697</b>     | <b>1,257</b> | <b>100%</b>    |

\*This is philanthropic cash received.

## Current Year / Previous Year

### Gift & Grant Awards

Meeting Date: 12/15/2023

Current Period: Aug 10, 2023 - Nov 13, 2023

#### AWARD TOTALS

| Research                      |                      |                      |                 |
|-------------------------------|----------------------|----------------------|-----------------|
| Gift/Grant Source             | Previous YTD         | Year to Date         | % Change        |
| Federal Government            | \$255,101,080        | \$316,123,892        | 23.9%           |
| State of Michigan             | \$3,628,198          | \$5,455,328          | 50.4%           |
| Other                         | \$8,756,261          | \$7,600,362          | -13.2%          |
| Industry/CO                   | \$4,074,997          | \$4,194,897          | 2.9%            |
| Foundation                    | \$8,310,636          | \$7,326,567          | -11.8%          |
| Association                   | \$1,649,809          | \$1,338,929          | -18.8%          |
| <b>Research - Total</b>       | <b>\$281,520,980</b> | <b>\$342,039,975</b> | <b>21.5%</b>    |
| Non-Research                  |                      |                      |                 |
| Gift/Grant Source             | Previous YTD         | Year to Date         | % Change        |
| Federal Government            | \$47,349,683         | \$70,983,200         | 49.9%           |
| State of Michigan             | \$2,118,827          | \$4,240,067          | 100.1%          |
| Other                         | \$10,222,632         | \$10,490,358         | 2.6%            |
| Industry/CO                   | \$3,482,925          | \$6,364,016          | 82.7%           |
| Foundation                    | \$3,075,255          | \$4,811,012          | 56.4%           |
| Association                   | \$496,772            | \$60,000             | -87.9%          |
| Various Donors - Advancement* | \$54,049,147         | \$49,470,355         | -8.5%           |
| <b>Non-Research - Total</b>   | <b>\$120,795,242</b> | <b>\$146,419,008</b> | <b>21.2%</b>    |
| Total                         |                      |                      |                 |
| Gift/Grant Source             | Previous YTD         | Year to Date         | Amount % Change |
| Federal Government            | \$302,450,763        | \$387,107,092        | 28.0%           |
| State of Michigan             | \$5,747,025          | \$9,695,395          | 68.7%           |
| Other                         | \$18,978,893         | \$18,090,720         | -4.7%           |
| Industry/CO                   | \$7,557,922          | \$10,558,913         | 39.7%           |
| Foundation                    | \$11,385,891         | \$12,137,579         | 6.6%            |
| Association                   | \$2,146,581          | \$1,398,929          | -34.8%          |
| Various Donors - Advancement* | \$54,049,147         | \$49,470,355         | -8.5%           |
| <b>TOTAL</b>                  | <b>\$402,316,222</b> | <b>\$488,458,983</b> | <b>21.4%</b>    |

#### # OF AWARDS

| Research                      |                  |              |                |
|-------------------------------|------------------|--------------|----------------|
| Gift/Grant Source             | Previous YTD     | Year to Date | % Change       |
| Federal Government            | 664              | 653          | -1.7%          |
| State of Michigan             | 29               | 26           | -10.3%         |
| Other                         | 130              | 132          | 1.5%           |
| Industry/CO                   | 118              | 91           | -22.9%         |
| Foundation                    | 47               | 41           | -12.8%         |
| Association                   | 45               | 18           | -60.0%         |
| <b>Research - Total</b>       | <b>1,033</b>     | <b>961</b>   | <b>-7.0%</b>   |
| Non-Research                  |                  |              |                |
| Gift/Grant Source             | Previous YTD     | Year to Date | % Change       |
| Federal Government            | 170              | 152          | -10.6%         |
| State of Michigan             | 25               | 24           | -4.0%          |
| Other                         | 47               | 45           | -4.3%          |
| Industry/CO                   | 38               | 36           | -5.3%          |
| Foundation                    | 26               | 33           | 26.9%          |
| Association                   | 8                | 4            | -50.0%         |
| Various Donors - Advancement* | 2                | 2            | 0.0%           |
| <b>Non-Research - Total</b>   | <b>316</b>       | <b>296</b>   | <b>-6.3%</b>   |
| Total                         |                  |              |                |
| Gift/Grant Source             | Acceptance Total | Year to Date | Count % Change |
| Federal Government            | 834              | 805          | -3.5%          |
| State of Michigan             | 54               | 50           | -7.4%          |
| Other                         | 177              | 177          | 0.0%           |
| Industry/CO                   | 156              | 127          | -18.6%         |
| Foundation                    | 73               | 74           | 1.4%           |
| Association                   | 53               | 22           | -58.5%         |
| Various Donors - Advancement* | 2                | 2            | 0.0%           |
| <b>TOTAL</b>                  | <b>1,349</b>     | <b>1,257</b> | <b>-6.8%</b>   |

\*This is philanthropic cash received.

# Henry Ford Health + MSU Health Sciences: Current Period / Year to Date

## Gift & Grant Awards

Meeting Date: 12/15/2023

Current Period: Aug 10, 2023 - Nov 13, 2023

NOTE: This supplemental report (pages 4-5) shows HFH + MSU HS awards that also appear in the full University Board of Trustees summary on pages 2-3, Top 10 on page 7, and Gift, Grant and Contract Report on pages 8-51. These NIH projects were proposed and awarded through HFH+MSU HS (which is associated with CHM/COM/Nursing colleges).

### AWARD TOTALS

| Research                    |                     |                     |                |
|-----------------------------|---------------------|---------------------|----------------|
| Gift/Grant Source           | Current Period      | Year to Date        | % of Total YTD |
| Federal Government          | \$23,989,647        | \$23,989,647        | 100%           |
|                             |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
| <b>Research - Total</b>     | <b>\$23,989,647</b> | <b>\$23,989,647</b> | <b>100%</b>    |
| Non-Research                |                     |                     |                |
| Gift/Grant Source           | Current Period      | Year to Date        | % of Total YTD |
| Federal Government          |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
| <b>Non-Research - Total</b> | <b>\$ -</b>         | <b>\$ -</b>         | <b>100%</b>    |
| Total                       |                     |                     |                |
| Gift/Grant Source           | Current Period      | Year to Date        | Amount % YTD   |
| Federal Government          | \$23,989,647        | \$23,989,647        | 100%           |
|                             |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
|                             |                     |                     |                |
| <b>TOTAL</b>                | <b>\$23,989,647</b> | <b>\$23,989,647</b> | <b>100%</b>    |

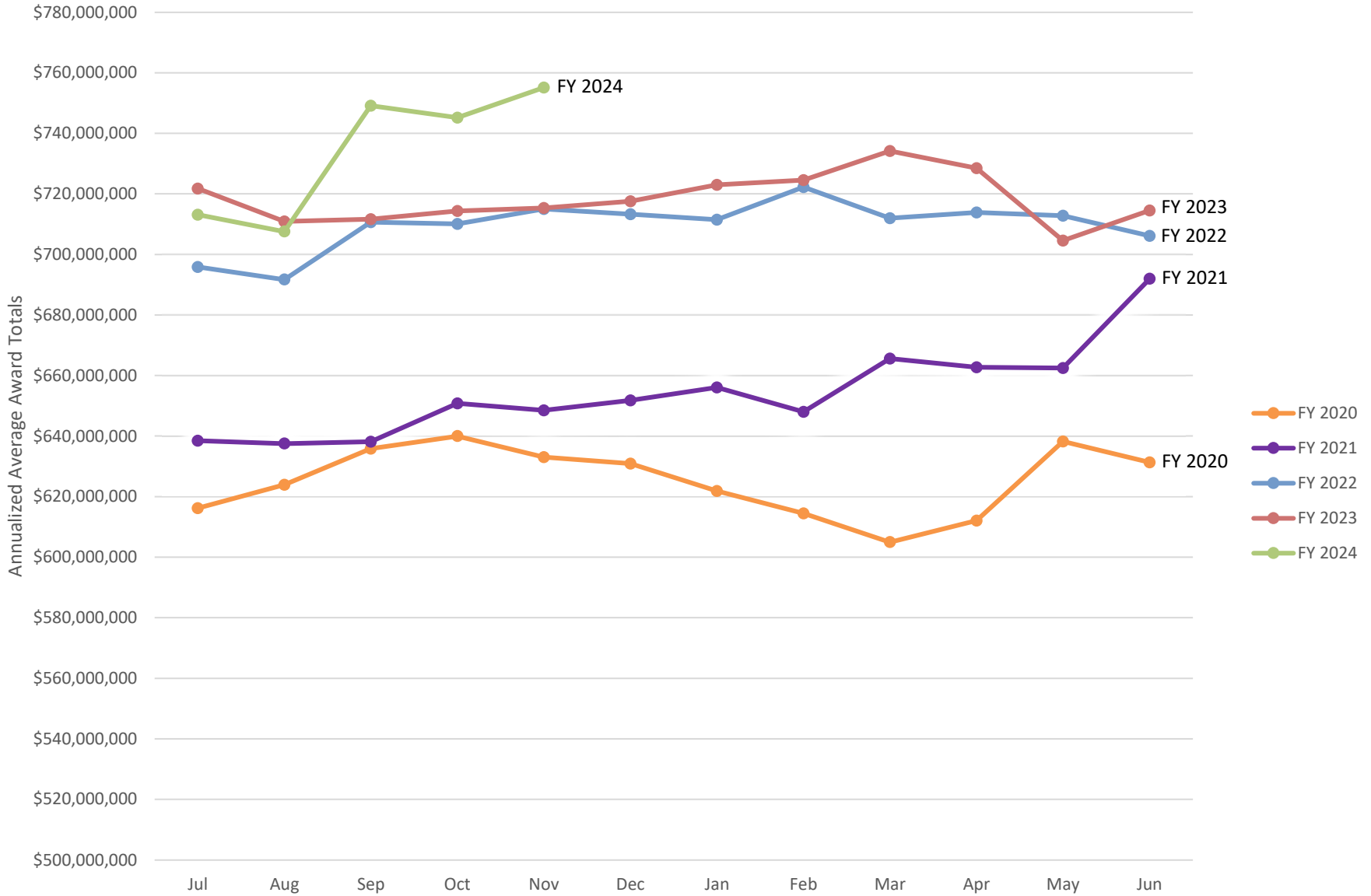
### # OF AWARDS

| Research                    |                |              |                |
|-----------------------------|----------------|--------------|----------------|
| Gift/Grant Source           | Current Period | Year to Date | % of Total YTD |
| Federal Government          | 8              | 8            | 100%           |
|                             |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
| <b>Research - Total</b>     | <b>8</b>       | <b>8</b>     | <b>100%</b>    |
| Non-Research                |                |              |                |
| Gift/Grant Source           | Current Period | Year to Date | % of Total YTD |
| Federal Government          |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
| <b>Non-Research - Total</b> | <b>0</b>       | <b>0</b>     | <b>100%</b>    |
| Total                       |                |              |                |
| Gift/Grant Source           | Current Period | Year to Date | Count % YTD    |
| Federal Government          | 8              | 8            | 100%           |
|                             |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
|                             |                |              |                |
| <b>TOTAL</b>                | <b>8</b>       | <b>8</b>     | <b>100%</b>    |

**Henry Ford Health + MSU Health Sciences**  
**Board of Trustees**  
**December 2023**

|                                   | Amount       | Sponsor                           | Principal Investigator/<br>Director | Unit  | Project Title  |
|-----------------------------------|--------------|-----------------------------------|-------------------------------------|---|--|
| <b>COLLEGE OF HUMAN MEDICINE</b>  |              |                                   |                                     |   |  |
| 1                                 | \$3,378,982  | NATIONAL INST OF HEALTH           | Kerver, Jean                        | EPIDEMIOLOGY AND BIostatISTICS                  | PRENATAL EXPOSURES AND CHILD HEALTH OUTCOMES 2: INCREASING ECHO URBAN AND RURAL DIVERSITY                                      |
| 2                                 | \$18,393,034 | NATIONAL INST OF HEALTH           | Johnson, Christine                  | OBSTETRICS, GYNECOLOGY AND REPRODUCTIVE BIOLOGY | ALL OF US RESEARCH PROGRAM TRANS-AMERICA CONSORTIUM OF THE HCSRN   |
| 3                                 | \$157,000    | NATIONAL INST OF HEALTH           | Gui, Hongsheng                      | PSYCHIATRY                                      | ASSEMBLY AND RE-ALIGNMENT OF HLA GENOMIC REGION AND ITS IMPLICATION FOR FINE-MAPPING SUICIDALITY IN AFRICAN DESCENT POPULATION |
| 4                                 | \$430,375    | NATIONAL INST OF HEALTH           | Knickmeyer-Santelli, Rebecca        | INSTITUTE FOR QUANTITATIVE HEALTH               | DOES MICROBIOME COMPOSITION MODERATE GI AND CNS FUNCTION IN A VPA-INDUCED MOUSE MODEL OF AUTISM                                |
| 5                                 | \$542,283    | NATIONAL INST OF HEALTH           | Alshaarawy, Omayma                  | FAMILY MEDICINE                                 | CANNABIS USE AND CARDIOVASCULAR HEALTH OUTCOMES AMONG PATIENTS WITH HIGH BLOOD PRESSURE  |
| 6                                 | \$796,636    | NATIONAL INST OF HEALTH           | Lockhart, Elizabeth                 | EPIDEMIOLOGY AND BIostatISTICS                  | A MULTILEVEL, MULTIPHASE OPTIMIZATION STRATEGY FOR PREP: PATIENTS AND PROVIDERS IN PRIMARY CARE                                |
| <b>COLLEGE OF NATURAL SCIENCE</b> |              |                                   |                                     |   |  |
| 7                                 | \$61,250     | UNIVERSITY OF NEBRASKA KEARNEY    | Bazil, Jason                        | PHYSIOLOGY NATURAL SCIENCE                      | PYRUVATE DEHYDROGENASE COMPLEX ACTIVATION AS A STRATEGY TO AMELIORATE METABOLIC DISEASE  |
| <b>COLLEGE OF NURSING</b>         |              |                                   |                                     |   |  |
| 8                                 | \$230,087    | NATIONAL INST OF NURSING RESEARCH | Chen, Angela Chia-Chen              | COLLEGE OF NURSING                              | PILOT TESTING OF A GAME-BASED INTERVENTION TO PROMOTE HPV VACCINATION IN FAMILIES WITH UNVACCINATED CHILDREN                   |

### Michigan State University 3 Year Annualized Average Awards



\*Award dates based on calendar months (varies from Trustee cycle)

## Top 10 Awards for the December 15, 2023 BOT Meeting

| Rank | Sponsor Type       | Award Amount         | Principal Investigator | Sponsor                                | Department                               | New or Modification | Award Activity Type | Project Dates            | Project Title  |
|------|--------------------|----------------------|------------------------|--|--|---------------------|---------------------|--------------------------|--|
| 1    | Federal Government | \$83,358,000         | Thomas Glasmacher      | US Dept of Energy                      | FACILITY FOR RARE ISOTOPE BEAMS          | New                 | Research            | 01/15/2023<br>01/15/2028 | Operation of the Facility for Rare Isotope Beams as Scientific User Facility   |
| 2    | Federal Government | \$18,393,034         | Christine Johnson      | National Inst of Health                | OBSTETRICS GYNECOLOGY REPRODUCTIVE BIO   | New                 | Research            | 09/01/2023<br>08/31/2024 | All of Us Research Program Trans-America Consortium of the HCSRN   |
| 3    | Federal Government | \$9,838,243          | Kurt Thelen            | US Dept of Energy                      | GREAT LAKES BIOENERGY RESEARC CTR VPRGS  | Modification        | Research            | 12/01/2017<br>11/30/2023 | Great Lakes Bioenergy Research Center  |
| 4    | Federal Government | \$9,213,848          | Erin Moore             | US Dept of Agriculture                 | EXTENSION HEALTH AND NUTRITION           | New                 | Public Service      | 10/01/2023<br>09/30/2024 | Supplemental Nutrition Assistance Program - Education FY2024   |
| 5    | Federal Government | \$6,033,062          | Zsofia Szendrei        | National Inst of Food & Agriculture    | ENTOMOLOGY AGRICULTURE AND NATURAL RES   | New                 | Research            | 09/01/2023<br>08/31/2026 | Enhancing integrated insect pest management strategies for U.S. potato production systems                                |
| 6    | Federal Government | \$3,952,330          | Timothy Miles          | National Inst of Food & Agriculture    | PLANT SOIL AND MICROBIAL SCIENCES        | New                 | Research            | 09/15/2023<br>09/14/2027 | BLUE-DYNAMO: An interactive platform to deliver blueberry disease and horticultural management strategies for fruit rots |
| 7    | Federal Government | \$3,378,982          | Jean Kerver            | National Inst of Health                | EPIDEMIOLOGY AND BIOSTATISTICS           | New                 | Research            | 09/01/2023<br>05/31/2025 | Prenatal Exposures and Child Health Outcomes 2: Increasing ECHO Urban and Rural Diversity                                |
| 8    | Federal Government | \$3,000,000          | Thomas Glasmacher      | US Dept of Energy                      | FACILITY FOR RARE ISOTOPE BEAMS          | New                 | Research            | 09/22/2023<br>11/28/2030 | High Rigidity Spectrometer Project   |
| 9    | Federal Government | \$2,985,597          | Jennifer Johnson       | National Inst of Mental Health         | CS MOTT DEPARTMENT OF PUBLIC HEALTH      | Modification        | Research            | 08/22/2022<br>07/31/2027 | The National Center for Health and Justice Integration for Suicide Prevention  |
| 10   | Federal Government | \$2,187,500          | Laurie Linscott        | Administration for Children & Families | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | New                 | Public Service      | 08/30/2023<br>08/30/2024 | Michigan State University Child Development Laboratories Community Expansion   |
|      | <b>TOTAL</b>       | <b>\$142,340,596</b> |                        |  |  |                     |                     |                          |  |

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**December 2023**

|   | Amount      | Sponsor                             | Principal Investigator/Director | Unit                                     | Project Title  |
|---|-------------|-------------------------------------|---------------------------------|--|--|
| <b>COLLEGE OF AGRICULTURE AND NAT RESOURCES</b> |             |                                     |                                 |  |  |
| 1   | \$650,054   | INTL FOOD POLICY RESEARCH INST      | Boughton, Duncan                | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | IFPRI - MAPSA 2  |
| 2   | \$374,940   | WINROCK INTL                        | Boughton, Duncan                | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | USDA THAILAND FOOD FOR PROGRESS ACTIVITY   |
| 3   | \$1,000,000 | US AGENCY FOR INTL DEVELOPMENT      | Burke, William                  | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | USAID/MALAWI ECONOMIC GROWTH POLICY ACTIVITY UNDER LEADER WITH ASSOCIATE AWARD                                 |
| 4   | \$22,500    | ECONOMIC RESEARCH SERVICE           | Caputo, Vincenzina              | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | THE MARKET OF MEAT ALTERNATIVES: EXISTING PRODUCTS, NEW DEVELOPMENTS, AND CONSUMER PERSPECTIVE                 |
| 5   | \$24,957    | MICHIGAN APPLE COMMITTEE            | Ker, Alan                       | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | PRICE SURVEY OF MICHIGAN APPLE PROCESSORS  |
| 6   | \$14,462    | UNIVERSITY OF MICHIGAN              | Miller, Steven                  | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | "MAPPING AND BRIDGING BARRIERS IN KNOWLEDGE FLOWS OF HOW SOLAR PHOTOVOLTAICS AFFECT RURAL COMMUNITY ECONOMIES" |
| 7   | \$1,995,887 | FOUNDATION FOR A SMOKE FREE WORLD   | Muyanga, Milu                   | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | MWAPATA PHASE II   |
| 8   | \$119,208   | CHICO STATE ENTERPRISES             | Rudi Polloshka, Jeta            | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | ECONOMICS OF FOOD SAFETY: A CASE-STUDY APPROACH  |
| 9   | \$24,960    | NATIONAL INST OF FOOD & AGRICULTURE | Rutledge, Zachariah             | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | UNDERSTANDING AND ADDRESSING AGRICULTURAL LABOR CHALLENGES IN THE UNITED STATES                                |
| 10  | \$2,050,000 | US AGENCY FOR INTL DEVELOPMENT      | Tschirley, David                | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | FEED THE FUTURE INNOVATION LAB FOR FOOD SECURITY POLICY RESEARCH, CAPACITY, AND INFLUENCE                      |
| 11  | \$87,928    | VARIOUS INDUSTRIES                  | Bradford, Barry                 | ANIMAL SCIENCE DEPARTMENT ANR            | DR. BARRY BRADFORD TESTING   |
| 12  | \$83,804    | AMER LAMB BOARD                     | Ehrhardt, Richard               | ANIMAL SCIENCE DEPARTMENT ANR            | DEVELOPMENT OF A GREENHOUSE GAS EMISSIONS CALCULATOR FOR USE BY US SHEEP PRODUCERS.                            |
| 13  | \$38,833    | VARIOUS INDUSTRIES                  | Ruegg, Pamela                   | ANIMAL SCIENCE DEPARTMENT ANR            | DR. RUEGG'S TESTING ACCOUNT  |



**Gift, Grant and Contract Report**  
**Board of Trustees**  
**December 2023**

|    | Amount      | Sponsor                                     | Principal Investigator/Director | Unit                                    | Project Title  |
|----|-------------|---|---------------------------------|---|--|
| 14 | \$156,500   | NATIONAL INST OF HEALTH                     | Wang, Yuan                      | ANIMAL SCIENCE DEPARTMENT ANR           | MITOCHONDRIAL DYNAMICS IN FEMALE REPRODUCTION  |
| 15 | \$42,000    | SCHLUMBERGER FOUNDATION                     | Alocilja, Evangelyn             | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | FACULTY FOR THE FUTURE PROGRAM - FELLOWSHIP SUPPORT OF MWANGALA NALISA PURSUING A POSTDOC IN INFECTIOUS DISEASES                     |
| 16 | \$75,489    | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Das, Narendra                   | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | ENHANCEMENT OF HIGH-RESOLUTION SOIL MOISTURE ALGORITHM AND PRODUCT FOR THE ARCTIC REGION USING THE MULTI-SENSOR DATA FUSION APPROACH |
| 17 | \$146,977   | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Das, Narendra                   | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | DEVELOPMENT OF GLOBAL HIGH-RESOLUTION SOIL MOISTURE USING A DATA-DRIVEN APPROACH FOR THE NISAR MISSION                               |
| 18 | \$498,873   | BOOZ ALLEN HAMILTON INC                     | Liao, Wei                       | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | A ROBUST, ENERGY-POSITIVE WASTEWATER TREATMENT SYSTEM FOR FORWARD OPERATING BASES  |
| 19 | \$30,000    | MICHIGAN SOYBEAN COMMITTEE                  | Liu, Yan                        | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | PRODUCTION OF PROBIOTIC ANIMAL FEED FROM SOYBEAN AND SOYBEAN MEAL  |
| 20 | \$617,500   | NATIONAL INST OF FOOD & AGRICULTURE         | Lu, Yuzhen                      | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | AN AI-ENHANCED MULTISPECTRAL VISION-BASED IN-FIELD APPLE SORTING SYSTEM  |
| 21 | \$27,160    | MISSISSIPPI STATE UNIV                      | Lu, Yuzhen                      | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | NONDESTRUCTIVE DETECTION OF SPOTTED WING DROSOPHILA INFESTATION IN BLUEBERRY FRUIT USING OPTICAL IMAGING                             |
| 22 | \$461,067   | NATIONAL INST OF HEALTH                     | Mitchell, Jade                  | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | QMRA IV- QUANTITATIVE MICROBIAL RISK ASSESSMENT INTERDISCIPLINARY VEHICLE: ADDRESSING EMERGING GLOBAL HEALTH RISKS                   |
| 23 | \$2,123,000 | US ENVIRONMENTAL PROTECTION AGENCY          | Mitchell, Jade                  | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | WINNING THE RACE AGAINST COMPETING RISKS: OPTIMIZING DRINKING WATER DISINFECTION TO MINIMIZE OPPORTUNISTIC PATHOGEN & DBP RISKS      |
| 24 | \$300,000   | NATIONAL SCIENCE FOUNDATION                 | Mitchell, Jade                  | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | EXPANDING ETHICS IN ENGINEERING EDUCATION  |
| 25 | \$47,887    | DTE ENERGY                                  | Surbrook, Truman                | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | MAEC DUES 2022   |
| 26 | \$119,595   | VARIOUS INDUSTRIES                          | Uludag-Demirer, Sibel           | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | FEE FOR SERVICE - ADREC  |

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|----|-----------|--|---------------------------------|---|---|
| 27 | \$51,054  | AGRICULTURAL RESEARCH SERVICE                    | Yi, Jiyeon                      | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | MSU-USDA ARS RESEARCH SUPPORT AGREEMENT   |
| 28 | \$25,000  | NATIONAL INST OF FOOD & AGRICULTURE              | Barry, Judith                   | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | ADDRESSING BARRIERS TO BETTER SERVE SOCIALLY-DISADVANTAGED MICHIGAN PRODUCERS: A COMMUNITY-MSU INCLUSIVE TECHNICAL ASSISTANCE NETWORK |
| 29 | \$10,000  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES         | Gensler, Liz                    | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | SPINE MICHIGAN LOCAL FOOD COUNCIL NETWORK   |
| 30 | \$499,989 | MICHIGAN HEALTH ENDOWMENT FUND                   | Gensler, Liz                    | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | MODELING FOOD SOVEREIGNTY IN MICHIGAN'S LOCAL FOOD COUNCILS   |
| 31 | \$31,508  | NATIONAL INST OF STANDARDS & TECHNOLOGY          | Gray, Steven                    | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | INTEGRATING NIST EDGES AND MENTAL MODELER IPA AGREEMENT   |
| 32 | \$5,077   | CLEMSON UNIV                                     | McKim, Aaron                    | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | IMMERSIVE PROFESSIONAL DEVELOPMENT EXPERIENCES FOR AGRISCIENCE TEACHERS TO EXPLORE THE FLORICULTURE INDUSTRY                          |
| 33 | \$25,000  | USDA FOREST SERVICE                              | Perry, Elizabeth                | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | MANISTEE RIVER LOOP TRAIL SUSTAINABILITY ASSESSMENT   |
| 34 | \$499,957 | US DEPT OF AGRICULTURE                           | Warsaw, Phillip                 | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | IMPROVING ADOPTION AND UTILIZATION OF METRICS AND EVIDENCE-BASED MARKETING AT FARMERS MARKETS   |
| 35 | \$290,000 | AGRICULTURAL MARKETING SERVICE                   | Warsaw, Phillip                 | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | STRENGTHENING INSTITUTIONAL PROCUREMENT: LESSONS FROM LFPA  |
| 36 | \$5,585   | UNIVERSITY OF ILLINOIS                           | Zwickle, Adam                   | DEPARTMENT OF COMMUNITY SUSTAINABILITY  | SUSTAINING ECOSYSTEM SERVICES IN AGRICULTURAL LANDSCAPES THROUGH A BETTER UNDERSTANDING OF DECISION-SUPPORT SYSTEMS                   |
| 37 | \$121,404 | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | Burrack, Hannah                 | ENTOMOLOGY AGRICULTURE AND NATURAL RES  | EXPANSION OF MICHIGAN'S PESTICIDE SAFETY EDUCATION PROGRAM: FY2024  |
| 38 | \$25,400  | VARIOUS INDUSTRIES                               | Isaacs, Rufus                   | ENTOMOLOGY AGRICULTURE AND NATURAL RES  | ISAACS TESTING PROJECTS   |
| 39 | \$49,999  | ANIMAL & PLANT HEALTH INSPECTION SERVICE         | Isaacs, Rufus                   | ENTOMOLOGY AGRICULTURE AND NATURAL RES  | MI FY23 BC SPOTTED-WING DROSOPHILA  |

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|----|-------------|--|---------------------------------|--|---|
| 40 | \$56,339    | IOWA STATE UNIV  | Jess, Lynnae                    | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | NORTH CENTRAL INTEGRATED PEST MANAGEMENT (NCIPMC): A REGIONAL APPROACH TO PEST MANAGEMENT IMPLEMENTATION      |
| 41 | \$200,000   | BAYER CROPSCIENCE  | Maredia, Karimbhai              | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | MSU-BAYER SCIENCE AND TECHNOLOGY GLOBAL FELLOWSHIP PROGRAM II   |
| 42 | \$22,039    | MICHIGAN SOYBEAN<br>COMMITTEE                            | Quintanilla Tornel, Marisol     | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | EXPLORING HOST SUITABILITY AND TRAP CROP POTENTIAL FOR SOYBEAN CYST NEMATODE MANAGEMENT IN WINTER WHEAT       |
| 43 | \$233,785   | UNIVERSITY OF IDAHO                                      | Quintanilla Tornel, Marisol     | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | SYSTEMS APPROACH TO CONTROLLING NEMATODES IN US POTATO PRODUCTION   |
| 44 | \$14,000    | VARIOUS INDUSTRIES                                       | Quintanilla Tornel, Marisol     | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | QUINTANILLA TESTING PROJECTS  |
| 45 | \$19,902    | MICHIGAN WHEAT<br>PROGRAM                                | Quintanilla Tornel, Marisol     | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | EXPLORING HOST SUITABILITY AND TRAP CROP POTENTIAL FOR NEMATODE MANAGEMENT IN WINTER WHEAT                    |
| 46 | \$90,000    | USDA FOREST SERVICE                                      | Ravlin, Bill                    | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | PARASITOID ESTABLISHMENT AND IMPACT FOR BIOLOGICAL CONTROL OF EMERALD ASH BORER ACROSS A NORTH SOUTH GRADIENT |
| 47 | \$11,000    | VARIOUS INDUSTRIES                                       | Smitley, David                  | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | SMITLEY TESTING PROJECTS  |
| 48 | \$25,000    | ANIMAL & PLANT<br>HEALTH INSPECTION<br>SERVICE           | Smitley, David                  | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | FACILITATING SPREAD OF THE MICROSPORIDIAN   |
| 49 | \$14,988    | NORTH CENTRAL REGION<br>SARE AT THE UNIV OF<br>MINNESOTA | Szendrei, Zsofia                | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | DEVELOP GROWER-APPROPRIATE PLANT RESIDUE MANAGEMENT METHODS TO REDUCE ASPARAGUS BEETLE DAMAGE                 |
| 50 | \$6,033,062 | NATIONAL INST OF FOOD<br>& AGRICULTURE                   | Szendrei, Zsofia                | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | ENHANCING INTEGRATED INSECT PEST MANAGEMENT STRATEGIES FOR U.S. POTATO PRODUCTION SYSTEMS                     |
| 51 | \$28,400    | VARIOUS INDUSTRIES                                       | Wilson, Julianna                | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | WILSON TESTING PROJECTS   |
| 52 | \$72,750    | VARIOUS INDUSTRIES                                       | Wise, John                      | ENTOMOLOGY<br>AGRICULTURE AND<br>NATURAL RES | WISE TESTING PROJECTS   |

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|----|-----------|---|---------------------------------|--|---|
| 53 | \$14,972  | MICHIGAN APPLE COMMITTEE                    | Wise, John                      | ENTOMOLOGY AGRICULTURE AND NATURAL RES | RAINFESTNESS OF FUNGICIDES FOR DISEASE CONTROL IN APPLES  |
| 54 | \$288,585 | USDA FOREST SERVICE                         | Ziegler, Amos                   | ENTOMOLOGY AGRICULTURE AND NATURAL RES | NATIONAL SLOW THE SPREAD OF THE SPONGY MOTH PROJECT: NORTHERN REGIONAL DATABASE NODE  |
| 55 | \$28,000  | ANIMAL & PLANT HEALTH INSPECTION SERVICE    | Ziegler, Amos                   | ENTOMOLOGY AGRICULTURE AND NATURAL RES | EAB BIOLOGICAL CONTROL MOBILE DATA COLLECTION   |
| 56 | \$45,000  | VARIOUS FOUNDATIONS                         | Belant, Jerrold                 | FISHERIES AND WILDLIFE                 | BOONE AND CROCKETT PROGRAM  |
| 57 | \$50,000  | MICHIGAN DEPT OF NATURAL RESOURCES          | Belant, Jerrold                 | FISHERIES AND WILDLIFE                 | WLD 2316 - DEVELOPING MONITORING TOOLS FOR BLACK BEAR ABUNDANCE AND DEER HARVEST, ABUNDANCE, AND DISEASE                                |
| 58 | \$16,518  | MINNESOTA DEPT OF NATURAL RESOURCES         | Bence, James                    | FISHERIES AND WILDLIFE                 | MICHIGAN STATE UNIVERSITY QUANTITATIVE FISHERIES CENTER/GREAT LAKES FISHERIES CONSULTING WITH MINNESOTA DEPARTMENT OF NATURAL RESOURCES |
| 59 | \$22,024  | MICHIGAN DEPT OF NATURAL RESOURCES          | Brenden, Travis                 | FISHERIES AND WILDLIFE                 | QUANTITATIVE SUPPORT FOR INTER-JURISDICTIONAL FISHERIES MANAGEMENT ON THE GREAT LAKES   |
| 60 | \$256,614 | US GEOLOGICAL SURVEY                        | Brenden, Travis                 | FISHERIES AND WILDLIFE                 | IMPROVE CONTROL EFFICIENCY THROUGH BETTER UNDERSTANDING OF GRASS CARP BEHAVIOR IN NEARSHORE AREAS OF THE GREAT LAKES                    |
| 61 | \$249,712 | GREAT LAKES FISHERY TRUST                   | Buchinger, Tyler                | FISHERIES AND WILDLIFE                 | BEHAVIORAL INVESTIGATIONS OF OLFACTORY IMPRINTING TO NATAL ODORS IN CISCO COREGONUS ARTEDI  |
| 62 | \$186,250 | UNIVERSITY OF MINNESOTA TWIN CITIES         | Cahill, Christopher             | FISHERIES AND WILDLIFE                 | EXPANDING LESSONS FROM DATA-RICH INLAND FISHERIES TO DATA-LIMITED SCENARIOS FOR CLIMATE ADAPTATION                                      |
| 63 | \$97,062  | ANIMAL & PLANT HEALTH INSPECTION SERVICE    | Christensen, Sonja              | FISHERIES AND WILDLIFE                 | ASSESSING LANDOWNER ACCESS FOR CWD MANAGEMENT   |
| 64 | \$75,000  | ANIMAL & PLANT HEALTH INSPECTION SERVICE    | DeGregorio, Brett               | FISHERIES AND WILDLIFE                 | 23-7400-1674-CA. EVALUATING NON-LETHAL TOOLS TO REDUCE DAMAGE CAUSED BY AMERICAN BEAVER   |
| 65 | \$133,425 | US FISH & WILDLIFE SERVICE                  | Infante, Dana                   | FISHERIES AND WILDLIFE                 | FISH HABITAT PARTNERSHIP  |
| 66 | \$40,000  | US GEOLOGICAL SURVEY                        | Infante, Dana                   | FISHERIES AND WILDLIFE                 | PREDICTING INVASION HOTSPOTS FOR AQUATIC ORGANISMS ACROSS THE U.S. LANDSCAPE  |
| 67 | \$30,000  | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Liu, Jianguo (Jack)             | FISHERIES AND WILDLIFE                 | NASA-MSU PROFESSIONAL ENHANCEMENT AWARDS  |

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|----|-------------|---|---------------------------------|------------------------------------|---|
| 68 | \$198,367   | UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN   | Liu, Jianguo (Jack)             | FISHERIES AND WILDLIFE             | HDR INSTITUTE: GEOSPATIAL UNDERSTANDING THROUGH AN INTEGRATIVE DISCOVERY ENVIRONMENT  |
| 69 | \$280,111   | IOWA STATE UNIV                           | Loch, Thomas                    | FISHERIES AND WILDLIFE             | IMPROVING FISH HEALTH IN THE NCR BY INTEGRATING EXTENSION WITH THE DEVELOPMENT OF ALTERNATIVE DISEASE PREVENTION METHODS                            |
| 70 | \$58,000    | EMERGINGDX INC                            | Loch, Thomas                    | FISHERIES AND WILDLIFE             | LOW-COST DIAGNOSTIC PLATFORM FOR AQUACULTURE  |
| 71 | \$24,951    | NATIONAL SCIENCE FOUNDATION               | Owen, Jennifer                  | FISHERIES AND WILDLIFE             | PLANNING THE FUTURE OF COREY MARSH ECOLOGICAL RESEARCH CENTER   |
| 72 | \$10,000    | MICHIGAN DEPT OF NATURAL RESOURCES        | Owen, Jennifer                  | FISHERIES AND WILDLIFE             | BURKE LAKE BANDING STATION SUPPORT  |
| 73 | \$123,714   | SAULT STE MARIE TRIBE OF CHIPPEWA INDIANS | Roloff, Gary                    | FISHERIES AND WILDLIFE             | TASK ORDER NO. 3 UNDER MASTER RESEARCH AGREEMENT BETWEEN SAULT STE MARIE TRIBE OF CHIPPEWA INDIANS AND MICHIGAN STATE UNIVERSITY                    |
| 74 | \$89,867    | MICHIGAN DEPT OF NATURAL RESOURCES        | Roloff, Gary                    | FISHERIES AND WILDLIFE             | ROLOFF ANNUAL PERM AGREEMENT  |
| 75 | \$1,230,048 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES  | Rose, Joan                      | FISHERIES AND WILDLIFE             | SARS-COV-2 EPIDEMIOLOGY – WASTEWATER EVALUATION AND REPORTING (SEWER) NETWORK   |
| 76 | \$174,427   | GREAT LAKES FISHERY COMMISSION            | Vandergoot, Christopher         | FISHERIES AND WILDLIFE             | PERM SALARY: CHRIS VANDERGOOT   |
| 77 | \$39,371    | WELLESLEY COLLEGE                         | Comstock, Sarah                 | FOOD SCIENCE AND HUM NUTRITION ANR | DIVERSITY OF HUMAN MILK OLIGOSACCHARIDE METABOLIZING GENES IN TWO INFANT COHORTS  |
| 78 | \$158,839   | AGRICULTURAL RESEARCH SERVICE             | Mayhew, Emily                   | FOOD SCIENCE AND HUM NUTRITION ANR | ACCESSIBLE CULTIVAR AND PROCESSING STRATEGIES FOR IMPROVED PULSE FLOUR QUALITY  |
| 79 | \$7,996     | BACARDI USA INC                           | Mayhew, Emily                   | FOOD SCIENCE AND HUM NUTRITION ANR | CONSUMER TESTING OF CANNED COCKTAILS  |
| 80 | \$565,997   | NATIONAL INST OF HEALTH                   | Pestka, James                   | FOOD SCIENCE AND HUM NUTRITION ANR | ROLE OF ALVEOLAR MACROPHAGE IN OMEGA-3 FATTY ACID AMELIORATION OF SILICA-TRIGGERED AUTOIMMUNITY.  |
| 81 | \$20,549    | AGRICULTURAL RESEARCH SERVICE             | Swada, Jeffrey                  | FOOD SCIENCE AND HUM NUTRITION ANR | DRY BEAN DEHULLING METHOD DEVELOPMENT   |
| 82 | \$7,000     | WORLD HEALTH ORGANIZATION                 | Wu, Felicia                     | FOOD SCIENCE AND HUM NUTRITION ANR | REVIEW AND EVIDENCE SYNTHESIS OF DATA NEEDED TO ESTIMATE THE GLOBAL BURDEN OF DISEASE CAUSED BY FOODBORNE EXPOSURE TO AFLATOXIN B1 AND AFLATOXIN M1 |
| 83 | \$24,998    | TUFTS UNIV                                | Wu, Felicia                     | FOOD SCIENCE AND HUM NUTRITION ANR | FOOD SYSTEMS FOR NUTRITION INNOVATION LAB (FSN-IL)  |
| 84 | \$63,570    | UNIVERSITY OF HOUSTON                     | Wu, Felicia                     | FOOD SCIENCE AND HUM NUTRITION ANR | MISC-CBO: A CLUSTER RANDOMIZED CONTROL TRIAL TO IMPROVE THE MENTAL HEALTH OF OVC IN SOUTH AFRICA  |

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|-----|-----------|---|---------------------------------|----------|--|
| 85  | \$25,000  | AMERICAN FOREST FOUNDATION                    | Clay, Kylie                     | FORESTRY | IMPLEMENTING FORESTS AS A CLIMATE SOLUTION: FOREST PROPERTY TAX PROGRAM AND CARBON PROJECT COMPATIBILITY   |
| 86  | \$16,000  | USDA FOREST SERVICE                           | Cooper, Lauren                  | FORESTRY | TRAINING AND PARTNERSHIP IN CARBON AND CLIMATE FOR LATIN AMERICAN PROFESSIONALS  |
| 87  | \$284,000 | USDA FOREST SERVICE                           | Dowtin, Asia                    | FORESTRY | ENGAGING DETROIT COMMUNITIES THROUGH REFORESTATION ACROSS SIX DIFFERENT SITE TYPES: A PROJECT OF THE GREAT LAKES RESTORATION INITIATIVE                        |
| 88  | \$300,000 | NATIONAL COUNCIL FOR AIR & STREAM IMPROVEMENT | Finley, Andrew                  | FORESTRY | TOWARD OPERATIONAL FIA MODEL-BASED ESTIMATION OF HIGH-DIMENSIONAL FOREST INVENTORY PARAMETERS TO SUPPORT INFERENCE AT USER-DEFINED SPATIAL AND TEMPORAL SCALES |
| 89  | \$437,180 | USDA FOREST SERVICE                           | Huff, Emily                     | FORESTRY | SYNTHESIS OF BASELINE ACCEPTANCE, RESEARCH NEEDS, AND PRIORITIES RELATED TO WILDFIRE   |
| 90  | \$52,000  | USDA FOREST SERVICE                           | Huff, Emily                     | FORESTRY | EXPERT PERCEPTIONS OF FIRE-IMPACTED WOOD   |
| 91  | \$68,000  | NORTHERN MICHIGAN UNIV                        | Huff, Emily                     | FORESTRY | FOREST FUELS: EQUITY, ENVIRONMENT, AND WOODY BIOMASS ENERGY TECHNOLOGIES IN MICHIGAN   |
| 92  | \$249,999 | MICHIGAN DEPT OF NATURAL RESOURCES            | Kobe, Richard                   | FORESTRY | MDNR START-UP SUPPORT OF A REPLACEMENT SILVICULTURIST FACULTY POSITION WITH THE MSU DEPARTMENT OF FORESTRY   |
| 93  | \$100,000 | AMER FORESTS                                  | Lupien, Sandra                  | FORESTRY | 2022 STATE URBAN FOREST RESILIENCE GRANT PROGRAM   |
| 94  | \$50,000  | USDA FOREST SERVICE                           | Macfarlane, David               | FORESTRY | INVESTIGATING NEW NATIONAL TREE BIOMASS MODELS FOR URBAN FIA   |
| 95  | \$160,000 | UNITED SOYBEAN BOARD                          | Nejad, Mojgan                   | FORESTRY | DEVELOPMENT OF SOY-LIGNIN POLYURETHANE FLEXIBLE FOAM FOR AUTOMOTIVE  |
| 96  | \$28,300  | OREGON STATE UNIV                             | Nejad, Mojgan                   | FORESTRY | A FUNDAMENTAL STUDY OF LIGNIN REACTION WITH FORMALDEHYDE   |
| 97  | \$126,954 | PENN SOIL RESOURCE CONSERVATION & DEV COUNCIL | Pokharel, Raju                  | FORESTRY | THE ECONOMIC TRADEOFFS IN TIMBER PRODUCTS UNDER VARIOUS CARBON MANAGEMENT STRATEGIES FOR MARYLAND AND PENNSYLVANIA   |
| 98  | \$40,904  | WISCONSIN DEPT OF NATURAL RESOURCES           | Pokharel, Raju                  | FORESTRY | ANALYSIS OF LOCATION, FEEDSTOCK AVAILABILITY, AND ECONOMIC CONTRIBUTIONS OF LOCATING A MASS TIMBER MANUFACTURING PLANT IN WISCONSIN                            |
| 99  | \$304,556 | WORLD RESOURCES INSTITUTE                     | Skole, David                    | FORESTRY | RAMPING UP SCIENCE-BASED MEASUREMENT AND REPORTING OF LAND CARBON STOCKS FOR CLIMATE CHANGE MITIGATION USING NATURE-BASED SOLUTIONS                            |
| 100 | \$29,799  | UNIVERSITY OF MARYLAND                        | Skole, David                    | FORESTRY | NASA LAND COVER LAND USE CHANGE (LCLUC) PROJECT COMMUNITY SUPPORT  |
| 101 | \$150,335 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION   | Skole, David                    | FORESTRY | HOTSPOT DETECTION FOR MONITORING NEW TRENDS IN CARBON SEQUESTRATION IN SYSTEMS OF TREES OUTSIDE OF FORESTS (TOF)   |

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| 102 | \$42,032    | MICHIGAN APPLE COMMITTEE            | Beaudry, Randolph               | HORTICULTURE ANR                  | APPLE RIPENING AFTER DYNAMIC CA STORAGE: ASSESSING THE RISK OF FLAVOR LOSS  |
| 103 | \$14,595    | CHRISTMAS TREE PROMOTION BOARD      | Cregg, Bert                     | HORTICULTURE ANR                  | MANAGING CONE FORMATION IN ABIES CHRISTMAS TREE SPECIES   |
| 104 | \$20,845    | CHRISTMAS TREE PROMOTION BOARD      | Cregg, Bert                     | HORTICULTURE ANR                  | IMPROVING CHRISTMAS TREE PLANTATION ESTABLISHMENT: IMPACTS OF SEEDLING QUALITY AND PLANTING TREATMENTS                                  |
| 105 | \$86,314    | MICHIGAN APPLE COMMITTEE            | Einhorn, Todd                   | HORTICULTURE ANR                  | NEW THINNING STRATEGIES TO IMPROVE APPLE PROFITABILITY AND PREDICTABILITY   |
| 106 | \$159,832   | CORNELL UNIV                        | Einhorn, Todd                   | HORTICULTURE ANR                  | PRECISION CROP LOAD MANAGEMENT FOR APPLES   |
| 107 | \$31,703    | MICHIGAN APPLE COMMITTEE            | Hollender, Courtney             | HORTICULTURE ANR                  | THE BIOLOGICAL MECHANISM BEHIND EARLY AND LATE APPLE SPORTS   |
| 108 | \$35,000    | AMER FLORAL ENDOWMENT               | Lopez, Roberto                  | HORTICULTURE ANR                  | DEVELOPING FOLIAGE STOCK PLANT, LINER AND FINISH PLANT PRODUCTION PROTOCOLS FOR TEMPERATE CLIMATES                                      |
| 109 | \$35,000    | AMER FLORAL ENDOWMENT               | Lopez, Roberto                  | HORTICULTURE ANR                  | MANIPULATING LIGHT QUANTITY, QUALITY, AND DURATION TO IMPROVE TIMING, YIELD, AND QUALITY OF GREENHOUSE GROWN CUT FLOWERS                |
| 110 | \$48,239    | AGRICULTURAL RESEARCH SERVICE       | Runkle, Erik                    | HORTICULTURE ANR                  | MODERNIZING FLORICULTURE PRODUCTION WITH LEDS WHILE CO-OPTIMIZING THE ENVIRONMENT   |
| 111 | \$98,088    | AGRICULTURAL RESEARCH SERVICE       | Song, Guo-Qing                  | HORTICULTURE ANR                  | DEVELOP NOVEL TRANSIENT TRANSFORMATION METHODS FOR CREATING NON-TRANSGENIC GENE EDITING EVENTS IN GRAPEVINE                             |
| 112 | \$5,795     | AGRICULTURAL RESEARCH SERVICE       | Vannocker, Steven               | HORTICULTURE ANR                  | PLANT EXPLORATION IN THE STATE OF MICHIGAN TO COLLECT MALUS CORONARIA GERMPLASM FOR CROP IMPROVEMENT                                    |
| 113 | \$24,600    | AMER FLORAL ENDOWMENT               | Warner, Ryan                    | HORTICULTURE ANR                  | ALTERING PETUNIA DEVELOPMENT RATE TO IMPROVE CUTTING YIELD AND CROP PRODUCTION EFFICIENCY   |
| 114 | \$397,400   | NATIONAL INST OF FOOD & AGRICULTURE | Byrne, Jan                      | PLANT SOIL AND MICROBIAL SCIENCES | NORTH CENTRAL PLANT DIAGNOSTIC NETWORK  |
| 115 | \$55,000    | MICHIGAN WHEAT PROGRAM              | Chilvers, Martin                | PLANT SOIL AND MICROBIAL SCIENCES | PROTECTING YIELDS AND IMPROVING WHEAT DISEASE MANAGEMENT THROUGH DISEASE SURVEILLANCE AND IMPROVED MANAGEMENT RECOMMENDATIONS           |
| 116 | \$76,081    | AGRICULTURAL RESEARCH SERVICE       | Chilvers, Martin                | PLANT SOIL AND MICROBIAL SCIENCES | EVALUATION AND OPTIMIZATION OF GENOMIC SELECTION FOR DURABLE WHITE MOLD RESISTANCE IN DRY BEAN  |
| 117 | \$1,144,000 | NATIONAL INST OF FOOD & AGRICULTURE | Douches, David                  | PLANT SOIL AND MICROBIAL SCIENCES | POTATO BREEDING AND VARIETY DEVELOPMENT IN THE NORTH CENTRAL US: ENHANCING YIELD, QUALITY AND RESILIENCE WITH NEW TECHNOLOGIES, 2023-25 |
| 118 | \$19,296    | AGRICULTURAL RESEARCH SERVICE       | Douches, David                  | PLANT SOIL AND MICROBIAL SCIENCES | SCREENING SOLANUM SPECIES FOR ABIOTIC HEAT AND WATER STRESS   |

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| 119 | \$64,806  | AGRICULTURAL RESEARCH SERVICE          | Douches, David                  | PLANT SOIL AND MICROBIAL SCIENCES | LEVERAGING PLANT-MICROBE INTERACTIONS TO OPTIMIZE SYMBIOTIC NITROGEN FIXATION OF DRY BEAN  |
| 120 | \$116,279 | AGRICULTURAL RESEARCH SERVICE          | Hausbeck, Mary                  | PLANT SOIL AND MICROBIAL SCIENCES | ADVANCING NOVEL TACTICS AND TRIAGING FUNGICIDE RESISTANCE FOR BOTRYTIS CINEREA AND OTHER PROFIT-LIMITING PATHOGENS                                     |
| 121 | \$11,405  | AGRICULTURAL RESEARCH SERVICE          | Horgan, Brian                   | PLANT SOIL AND MICROBIAL SCIENCES | ACQUISITION OF GOODS AND SERVICES  |
| 122 | \$47,053  | AGRICULTURAL RESEARCH SERVICE          | Horgan, Brian                   | PLANT SOIL AND MICROBIAL SCIENCES | ACQUISITION OF GOODS AND SERVICES  |
| 123 | \$20,597  | MICHIGAN WHEAT PROGRAM                 | Merewitz Holm, Emily            | PLANT SOIL AND MICROBIAL SCIENCES | INFLUENCE OF ICE ENCASEMENT AND WINTER DESICCATION ON WINTER WHEAT PHYSIOLOGY AND YIELD  |
| 124 | \$12,000  | MICHIGAN TURFGRASS FOUNDATION          | Merewitz Holm, Emily            | PLANT SOIL AND MICROBIAL SCIENCES | 2021-22 TURFGRASS RESEARCH   |
| 125 | \$53,300  | VARIOUS INDUSTRIES                     | Miles, Timothy                  | PLANT SOIL AND MICROBIAL SCIENCES | MILES PSM TESTING  |
| 126 | \$10,000  | CANADIAN TURFGRASS RESEARCH FOUNDATION | Nikolai, Thomas                 | PLANT SOIL AND MICROBIAL SCIENCES | ENVIRONMENTAL AND ECONOMIC COMPARISON BETWEEN VARIABLE DEPTH ROOTZONE AND CAPILLARY HYDROPONICS SYSTEM TO PROMOTE SUSTAINABLE PUTTING GREEN MANAGEMENT |
| 127 | \$81,959  | OHIO STATE UNIV                        | Olson, Eric                     | PLANT SOIL AND MICROBIAL SCIENCES | A MULTI-PURPOSE COOPERATIVE TRIAL TO IMPROVE ALL PHASES OF CULTIVAR DEVELOPMENT  |
| 128 | \$38,001  | MICHIGAN WHEAT PROGRAM                 | Olson, Eric                     | PLANT SOIL AND MICROBIAL SCIENCES | 2024 HIGH-MANAGEMENT TESTING OF MICHIGAN WHEAT VARIETIES   |
| 129 | \$51,080  | MICHIGAN WHEAT PROGRAM                 | Olson, Eric                     | PLANT SOIL AND MICROBIAL SCIENCES | IMPROVED METHODS FOR ASSESSING PREHARVEST SPROUTING AND APPLICATIONS IN RESISTANT VARIETY DEVELOPMENT, PHASE III                                       |
| 130 | \$88,505  | MICHIGAN WHEAT PROGRAM                 | Olson, Eric                     | PLANT SOIL AND MICROBIAL SCIENCES | DEVELOPING SOFT WINTER WHEAT VARIETIES FOR MICHIGAN, 2024  |
| 131 | \$24,527  | MICHIGAN WHEAT PROGRAM                 | Singh, Maninderpal              | PLANT SOIL AND MICROBIAL SCIENCES | OPTIMIZING PLANTING PRACTICES IN WINTER WHEAT: ROLE OF PRECISION PLANTING, ROW SPACING, VARIETAL CANOPY & SEEDING RATE                                 |
| 132 | \$29,693  | MICHIGAN WHEAT PROGRAM                 | Singh, Maninderpal              | PLANT SOIL AND MICROBIAL SCIENCES | EXPLORING WINTER WHEAT CANOPY ARCHITECTURE FOR VARIETY-SPECIFIC MANAGEMENT STRATEGIES  |
| 133 | \$28,000  | MICHIGAN WHEAT PROGRAM                 | Sprague, Christy                | PLANT SOIL AND MICROBIAL SCIENCES | WEED CONTROL AND CROP TOLERANCE IN EARLY- AND LATE-PLANTED WINTER WHEAT FROM FALL HERBICIDE APPLICATIONS – YEAR 2                                      |
| 134 | \$42,750  | VARIOUS INDUSTRIES                     | Sprague, Christy                | PLANT SOIL AND MICROBIAL SCIENCES | SPRAGUE PSM TESTING  |
| 135 | \$48,943  | MICHIGAN WHEAT PROGRAM                 | Steinke, Kurt                   | PLANT SOIL AND MICROBIAL SCIENCES | MANAGING AND MITIGATING VARIABILITY IN WINTER WHEAT UPTAKE OF HEAVY METALS   |



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|-----|-----------|---|---------------------------------|---|--|
| 136 | \$85,684  | VARIOUS INDUSTRIES                          | Steinke, Kurt                   | PLANT SOIL AND MICROBIAL SCIENCES       | STEINKE PSM TESTING  |
| 137 | \$26,401  | MICHIGAN APPLE COMMITTEE                    | Sundin, George                  | PLANT SOIL AND MICROBIAL SCIENCES       | FUNGICIDE RESISTANCE SCREENING IN THE APPLE SCAB PATHOGEN VENTURIA INAEQUALIS, AND CONTINUED WORK ON SHOOT BLIGHT MANAGEMENT   |
| 138 | \$11,926  | VARIOUS INDUSTRIES                          | Sundin, George                  | PLANT SOIL AND MICROBIAL SCIENCES       | SUNDIN PSM TESTING   |
| 139 | \$400,000 | NATIONAL SCIENCE FOUNDATION                 | Thomashow, Michael              | PLANT SOIL AND MICROBIAL SCIENCES       | RESEARCH PGR: THE TEMPERATURE-IMMUNITY NEXUS: ACTIVATION OF IMMUNITY BY LOW TEMPERATURE  |
| 140 | \$374,997 | AG SPECTRUM CO                              | Thompson, Addie                 | PLANT SOIL AND MICROBIAL SCIENCES       | PREDICTING MAIZE HYBRID YIELD RESPONSE TO NITROGEN   |
| 141 | \$25,000  | VARIOUS INDUSTRIES                          | Vargas, Joseph                  | PLANT SOIL AND MICROBIAL SCIENCES       | VARGAS PSM TESTING   |
| 142 | \$60,000  | UNITED SOYBEAN BOARD                        | Wang, Dechun                    | PLANT SOIL AND MICROBIAL SCIENCES       | INCORPORATION OF NOVEL RESISTANCE GENES INTO NON-GMO HIGH OLEIC SOYBEAN VARIETIES USING GENETICS, GENOMICS, AND BREEDING TOOLS |
| 143 | \$99,783  | UNITED SOYBEAN BOARD                        | Wang, Dechun                    | PLANT SOIL AND MICROBIAL SCIENCES       | CONTINUE DEVELOPMENT AND COMMERCIALIZATION OF NON-GMO HIGH OLEIC VARIETIES IN MATURITY GROUPS I TO III                         |
| 144 | \$150,000 | USDA-NATURAL RESOURCES CONSERVATION SERVICE | Wessel, Barret                  | PLANT SOIL AND MICROBIAL SCIENCES       | IMPROVING SOIL BULK DENSITY AND CARBON ESTIMATES IN INLAND WETLAND HISTOSOLS   |
| 145 | \$38,591  | AGRICULTURAL RESEARCH SERVICE               | Willbur, Jaime                  | PLANT SOIL AND MICROBIAL SCIENCES       | DEVELOPMENT OF A GENOMIC SELECTION MODEL FOR RHIZOCTONIA ROOT AND CROWN ROT RESISTANCE ACROSS ARS BREEDING PROGRAMS            |
| 146 | \$94,600  | VARIOUS INDUSTRIES                          | Willbur, Jaime                  | PLANT SOIL AND MICROBIAL SCIENCES       | WILLBUR PSM TESTING  |
| 147 | \$79,424  | CREIGHTON UNIVERSITY                        | Zhang, Wei                      | PLANT SOIL AND MICROBIAL SCIENCES       | CONFINEMENT OF CHRONIC WASTING DISEASE PRIONS FROM INFECTED CARCASSES AFTER BURIAL   |
| 148 | \$149,969 | AGRICULTURAL MARKETING SERVICE              | Cui, Yue                        | SCHOOL OF PLANNING DES CONSTRUCTION ANR | 2024 NATIONAL FARMERS MARKET MANAGER SURVEY: PHASE I   |
| 149 | \$64,000  | US ARMY CORPS OF ENGINEERS                  | Cui, Yue                        | SCHOOL OF PLANNING DES CONSTRUCTION ANR | ESTIMATING THE SOCIAL AND ECONOMIC IMPACTS OF USACE WATER SUPPLY PROJECTS: AN EXPLORATORY STUDY                                |
| 150 | \$30,000  | MICHIGAN DEPT OF NATURAL RESOURCES          | Kim, Jun Hyun                   | SCHOOL OF PLANNING DES CONSTRUCTION ANR | SUSTAINABLE PARK DESIGN AND PLANNING PROJECT   |
| 151 | \$100,000 | NATIONAL HOUSING ENDOWMENT                  | Yeganeh, Armin                  | SCHOOL OF PLANNING DES CONSTRUCTION ANR | MICHIGAN STATE UNIVERSITY RESIDENTIAL CONSTRUCTION MANAGEMENT PROGRAM  |
| 152 | \$25,000  | PURDUE UNIV                                 | Yeganeh, Armin                  | SCHOOL OF PLANNING DES CONSTRUCTION ANR | NCRCRD-RESILIENT RURAL COMMUNITIES   |

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|---|-------------|--|---------------------------------|--|--|
| 153   | \$55,000    | NATIONAL SCIENCE FOUNDATION              | Zhao, Dong                      | SCHOOL OF PLANNING<br>DES CONSTRUCTION ANR | CAREER: INTELLIGENT ENERGY RETROFIT DECISIONS FOR LARGE-SCALE RESIDENTIAL BUILDINGS  |
| <b>COLLEGE OF ARTS AND LETTERS</b>            |             |  |                                 |  |  |
| 154   | \$66,000    | ISRAEL INST                              | Aronoff, Yael                   | AL RESEARCH AND SCHOLARSHIP                | SERLING ISRAELI VISITING SCHOLAR AND ISRAEL INSTITUTE VISITING PROFESSOR   |
| 155   | \$399,186   | NATIONAL SCIENCE FOUNDATION              | Kirby, Caitlin                  | AL RESEARCH AND SCHOLARSHIP                | IMPROVING LEARNING OUTCOMES AND EQUITY IN BLENDED ONLINE AND FACE-TO-FACE LEARNING   |
| 156   | \$28,980    | PRESIDENT & FELLOWS OF HARVARD COLLEGE   | Frey, Jon                       | ART ART HISTORY AND DESIGN                 | PUBLICATION OF A MONOGRAPH ON THE ROMAN BATH AT THE SANCTUARY OF POSEIDON AT ISTHMIA   |
| 157   | \$9,982     | NATIONAL ENDOWMENT FOR THE HUMANITIES    | Frey, Jon                       | ART ART HISTORY AND DESIGN                 | ACCESSIBLE ARTIFACT STORAGE AT ISTHMIA   |
| 158   | \$6,854     | DUOLINGO INC                             | Winke, Paula                    | LINGUISTICS, LANGUAGES, AND CULTURES       | SHEDDING LIGHT ON THE TEST-TAKING EXPERIENCES OF FRANCOPHONE AFRICAN LEARNERS OF ENGLISH IN HIGH-STAKES ENGLISH PROFICIENCY TESTING THROUGH FOCUS GROUPS |
| 159   | \$74,209    | NATIONAL SCIENCE FOUNDATION              | Kendig, Catherine               | PHILOSOPHY                                 | EPISTEMIC AND ETHICAL FUNCTIONS OF CATEGORIES IN THE AGRICULTURAL SCIENCES   |
| 160   | \$287,195   | NATIONAL SCIENCE FOUNDATION              | O'Rourke, Michael               | PHILOSOPHY                                 | A THEORY OF INTEGRATION IN CROSSDISCIPLINARY RESEARCH AND PRACTICE   |
| 161   | \$29,422    | UNIVERSITY OF MICHIGAN                   | Khalil, Mohammad                | RELIGIOUS STUDIES                          | DIGITAL ISLAMIC STUDIES CURRICULUM (DISC)  |
| 162   | \$16,206    | US DEPT OF STATE                         | McNish, Deric                   | THEATRE                                    | RIPPLE EFFECT: DEvised CLIMATE-BASED PERFORMANCES IN UNITED STATES AND MACEDONIA   |
| 163   | \$199,737   | NATIONAL ENDOWMENT FOR THE HUMANITIES    | Boyles, Christina               | WRITING, RHETORIC, AND CULTURES            | ARCHIVING PUERTO RICO: DIGITAL MEMORY AND THE TEMPORALITIES OF DISASTER  |
| <b>COLLEGE OF COMMUNICATION ARTS SCIENCES</b> |             |  |                                 |  |  |
| 164   | \$323,289   | NATIONAL SCIENCE FOUNDATION              | Besley, John                    | ADVERTISING AND PUBLIC RELATIONS           | COLLABORATIVE RESEARCH: ADVANCING PUBLIC ENGAGEMENT WITH SCIENCE ACROSS THE LONG-TERM ECOLOGICAL RESEARCH NETWORK  |
| 165   | \$49,668    | AGENCY FOR HEALTHCARE RESEARCH & QUALITY | Holtz, Bree                     | ADVERTISING AND PUBLIC RELATIONS           | TELEHEALTH POST-PANDEMIC: A ROADMAP FOR THE COMING DECADE  |
| 166   | \$17,331    | UNITED WAY OF SOUTH CENTRAL MICHIGAN     | Turner, Shawn                   | BROADCASTING SERVICES                      | COMMUNITY INVESTMENT   |
| 167   | \$1,425,000 | US DEPT OF EDUCATION                     | Turner, Shawn                   | BROADCASTING SERVICES                      | STRENGTHENING EQUITABLE K-12 ACCESS TO EDUCATION TO THE LANSING AREA VIA FREE OVER THE AIR SERVICES  |

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|-----------------------------|-----------|---|---------------------------------|--|---|
| 168                         | \$10,000  | FRED ROGERS PRODUCTIONS                         | Turner, Shawn                   | BROADCASTING SERVICES                  | BE MY NEIGHBOR DAY 2023-24  |
| 169                         | \$94,994  | CALVIN UNIVERSITY                               | Eden, Allison                   | COMMUNICATION                          | CHARACTER ENGAGEMENT AND MORAL UNDERSTANDING IN SCREEN STORIES  |
| 170                         | \$631,380 | NATIONAL SCIENCE FOUNDATION                     | Schmaelzle, Ralf                | COMMUNICATION                          | NEUROCOGNITIVE AND BEHAVIORAL CONSTITUENTS OF NONVERBAL SPEAKER-LISTENER ATTUNEMENT DURING SCIENCE COMMUNICATION  |
| 171                         | \$68,924  | NATIONAL INST OF HEALTH                         | Naghbolhosseini, Maryam         | COMMUNICATIVE SCIENCES DISORDERS CAS   | BAYESIAN DATA-DRIVEN SUBJECT-SPECIFIC MODELING OF VOICE PRODUCTION  |
| 172                         | \$49,931  | US DEPT OF STATE                                | Takahashi, Bruno                | JOURNALISM                             | BUILDING RESPONSE CAPACITY AMONG BOLIVIAN JOURNALISTS TO COVER HUMAN AND CLIMATE THREATS TO THE AMAZON AND PANTANAL   |
| 173                         | \$326,916 | MICHIGAN DEPT OF LICENSING & REGULATORY AFFAIRS | Swierenga, Sarah                | MEDIA AND INFORMATION                  | MICHIGAN WORKFORCE BACKGROUND CHECK FY24 - LARA ONLY PORTION  |
| 174                         | \$213,918 | MICHIGAN DEPT OF LICENSING & REGULATORY AFFAIRS | Swierenga, Sarah                | MEDIA AND INFORMATION                  | MICHIGAN WORKFORCE BACKGROUND CHECK FY24 - CCPL PORTION   |
| 175                         | \$150,000 | MOZILLA FOUNDATION                              | Wyche, Susan                    | MEDIA AND INFORMATION                  | REIMAGINING INFORMATION COMMUNICATION TECHNOLOGY AND DEVELOPMENT (ICTD): DEVELOPING AND IMPLEMENTING AN AFRICAN-INFORMED APPROACH TO GLOBAL TECHNOLOGY DESIGN |
| <b>COLLEGE OF EDUCATION</b> |           |   |                                 |  |   |
| 176                         | \$26,750  | VARIOUS SCHOOLS                                 | Paine, Lynn                     | CED INTERNATIONAL STUDIES IN EDUCATION | WORLD LANGUAGE TEACHER CERTIFICATION RESIDENCY PROGRAM  |
| 177                         | \$500,000 | FLINT COMMUNITY SCHOOLS                         | Beverly, Bryan                  | CED OUTREACH                           | FLINT FELLOWSHIP OF INSTRUCTIONAL LEADERS 2023-24   |
| 178                         | \$250,000 | CHARLES STEWART MOTT FOUNDATION                 | Beverly, Bryan                  | CED OUTREACH                           | COMPREHENSIVE SYSTEM FOR RAPID DISTRICT INTERVENTION FOR FLINT COMMUNITY SCHOOLS-YEAR 9   |
| 179                         | \$75,000  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Carlson, John                   | COUNSELING, EDUC PSYCH SPEC EDUC       | MOBILE CRISIS RESPONSE CAREGIVER EXPERIENCE SURVEY  |
| 180                         | \$725,078 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Carlson, John                   | COUNSELING, EDUC PSYCH SPEC EDUC       | IMPROVING SERVICE DELIVERY FOR CHILDREN WITH SERIOUS EMOTIONAL DISTURBANCE  |
| 181                         | \$483,990 | US DEPT OF EDUCATION                            | Fisher, Marisa                  | COUNSELING, EDUC PSYCH SPEC EDUC       | PROJECT FUTURE: FOCUS ON THE UNDERSERVED IN TRANSITION USING REHABILITATION AND EDUCATION   |

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|-----|-------------|-----------------------------------|---------------------------------|-------------------------------------|---|
| 182 | \$163,541   | TEACHERS COLLEGE<br>COLUMBIA UNIV | Frank, Kenneth                  | COUNSELING, EDUC<br>PSYCH SPEC EDUC | UNDERSTANDING FIRST-GENERATION COLLEGE STUDENTS' CONNECTIONS TO SUPPORT ON AND OFF CAMPUS                                   |
| 183 | \$196,865   | US DEPT OF EDUCATION              | Lee, Ka Lai                     | COUNSELING, EDUC<br>PSYCH SPEC EDUC | MICHIGAN STATE UNIVERSITY MASTERS OF ARTS REHABILITATION COUNSELING PROGRAM   |
| 184 | \$5,250     | KESSLER FOUNDATION                | Sung, Connie                    | COUNSELING, EDUC<br>PSYCH SPEC EDUC | IMPROVING SOCIAL SKILLS IN YOUTH WITH BRAIN INJURY: A GROUP-BASED INTERVENTION UPDATED FOR THE DIGITAL GENERATION           |
| 185 | \$60,571    | LANSING SCHOOL<br>DISTRICT        | Wahman, Charis                  | COUNSELING, EDUC<br>PSYCH SPEC EDUC | LANSING SCHOOL DISTRICT APPLIED BEHAVIOR ANALYSIS PRACTICUM TRAINING PROGRAM CONTRACT                                       |
| 186 | \$10,531    | LANSING SCHOOL<br>DISTRICT        | Wahman, Charis                  | COUNSELING, EDUC<br>PSYCH SPEC EDUC | LANSING SCHOOL DISTRICT APPLIED BEHAVIOR ANALYSIS PRACTICUM TRAINING PROGRAM CONTRACT                                       |
| 187 | \$244,004   | US DEPT OF EDUCATION              | Witmer, Sara                    | COUNSELING, EDUC<br>PSYCH SPEC EDUC | HYBRID INTERDISCIPLINARY TRAINING TO ADDRESS HIGH INTENSITY NEEDS OF STUDENTS WITH LEARNING DISABILITIES (PROJECT HI2LD)    |
| 188 | \$199,996   | NATIONAL SCIENCE<br>FOUNDATION    | Yadav, Aman                     | COUNSELING, EDUC<br>PSYCH SPEC EDUC | RAPID: EMPOWERING FUTURE TEACHERS WITH GENERATIVE AI EDUCATION: UNDERSTANDING APPLICATIONS, RISKS, AND LIMITS               |
| 189 | \$232,131   | NATIONAL SCIENCE<br>FOUNDATION    | Krajcik, Joseph                 | CREATE FOR STEM                     | SUPPORTING INSTRUCTIONAL DECISION MAKING: THE POTENTIAL OF AUTOMATICALLY SCORED THREE-DIMENSIONAL ASSESSMENT SYSTEM         |
| 190 | \$76,000    | DETROIT PUBLIC<br>SCHOOLS         | Miller, Cory                    | CREATE FOR STEM                     | DETROIT PS PROFESSIONAL DEVELOPMENT - MODIFICATION 006  |
| 191 | \$479,970   | NATIONAL SCIENCE<br>FOUNDATION    | Yadav, Aman                     | CREATE FOR STEM                     | COLLABORATIVE RESEARCH: MODELING INCLUSIVE COMPUTATIONAL THINKING INSTRUCTION: VIDEO CASES FOR DEVELOPING TEACHER KNOWLEDGE |
| 192 | \$111,981   | VARIOUS SCHOOLS                   | Beverly, Bryan                  | EDUCATION DEAN                      | K-12 SCHOOL IMPROVEMENT TRAINING  |
| 193 | \$217,001   | TULANE UNIV                       | Cowen, Joshua                   | EDUCATION POLICY<br>CENTER          | THE SCHOOL CHOICE POLICY RESEARCH CENTER: IMPROVING POLICY, IMPLEMENTATION, AND OUTCOMES FOR DISADVANTAGED STUDENTS         |
| 194 | \$230,000   | STATE OF MICHIGAN                 | Kilbride, Tara                  | EDUCATION POLICY<br>CENTER          | MICHIGAN PA 316 TEACHER WORKFORCE RESEARCH  |
| 195 | \$102,448   | UNIVERSITY OF<br>COLORADO BOULDER | Austin, Ann                     | EDUCATIONAL<br>ADMINISTRATION       | ADVANCE AND BEYOND: UNDERSTANDING PROCESSES OF INSTITUTIONAL CHANGE TO PROMOTE STEM EQUITY AND EDUCATION                    |
| 196 | \$155,000   | US DEPT OF STATE                  | Cantwell, Brendan               | EDUCATIONAL<br>ADMINISTRATION       | WRITING CENTER IS THE SUPPORT KAZHAKSTAN'S CONTRIBUTIONS TO THE GLOBAL SCIENTIFIC COMMUNITY                                 |
| 197 | \$910,979   | INST OF EDUCATION<br>SCIENCES     | Kilbride, Tara                  | EDUCATIONAL<br>ADMINISTRATION       | EVALUATING MICHIGAN'S EARLY LITERACY LAW: IMPACTS, IMPLEMENTATION AND IMPROVING STATE CAPACITY                              |
| 198 | \$1,497,420 | US AGENCY FOR INTL<br>DEVELOPMENT | Wawrzynski, Matthew             | EDUCATIONAL<br>ADMINISTRATION       | MSUCDC  |

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|-------------------------------|-----------|--------------------------------------|---------------------------------|--|--|
| 199                           | \$651,972 | NATIONAL INST OF HEALTH              | Currie, Katharine               | KINESIOLOGY ED                         | CHRONO-EXERCISE IS MEDICINE: IMPROVING BLOOD PRESSURE AND VASCULAR FUNCTION THROUGH CHRONOTHERAPY  |
| 200                           | \$5,500   | NASCAR EVENT MANAGEMENT              | Ferguson, David                 | KINESIOLOGY ED                         | PHYSIOLOGICAL RESPONSES TO DRIVING A RACE CAR  |
| 201                           | \$75,415  | NIKE INC                             | Harkey, Matthew                 | KINESIOLOGY ED                         | NIKE PRODUCTS AND SERVICES AGREEMENT, 2023-2024  |
| 202                           | \$7,872   | IOWA STATE UNIV                      | Vazou, Spyridoula               | KINESIOLOGY ED                         | BUILDING CAPACITY FOR STAFF AND STUDENT MENTAL HEALTH PROGRAMMING: A PARTNERSHIP BETWEEN SWITCH AND THE HEALTHIEST STATE INITIATIVE  |
| 203                           | \$15,936  | UNIVERSITY OF DELAWARE               | Bartell, Tonya                  | TEACHER EDUCATION                      | PREPARING ELEMENTARY MATHEMATICS TEACHERS FOR CULTURALLY RESPONSIVE TEACHING: CONNECTIONS TO STUDENT AND TEACHER OUTCOMES  |
| 204                           | \$45,571  | NATIONAL SCIENCE FOUNDATION          | Bieda, Kristen                  | TEACHER EDUCATION                      | SUPPLEMENT TO "COLLABORATIVE RESEARCH: ADVANCING EQUITY GOALS IN SECONDARY CLASSROOMS BY INCORPORATING MATHEMATICAL JUSTIFICATION IN TEACHING"                                     |
| 205                           | \$272,674 | NATIONAL SCIENCE FOUNDATION          | Dominguez, Higinio              | TEACHER EDUCATION                      | COLLABORATIVE RESEARCH: DEVELOPING TEACHER LEARNING THEORY WITH TEACHERS AND STUDENTS ANIMATING MATHEMATICAL CONCEPTS  |
| 206                           | \$21,120  | UNIVERSITY OF CONNECTICUT            | Gotwals, Amelia                 | TEACHER EDUCATION                      | THE IMPACTS OF EARLY CHILDHOOD SCIENCE, TECHNOLOGY, AND ENGINEERING INTERVENTIONS ON STUDENT LEARNING AND CLASSROOM INSTRUCTION: A META-ANALYSIS                                   |
| 207                           | \$38,034  | STAND FOR CHILDREN LEADERSHIP CENTER | Halvorsen, Anne-Lise            | TEACHER EDUCATION                      | GREAT FIRST EIGHT  |
| 208                           | \$61,262  | US DEPT OF EDUCATION                 | Li, Jiahang                     | TEACHER EDUCATION                      | TECHNOLOGY FACILITATED CHINESE LANGUAGE TEACHING (TFCLT)   |
| <b>COLLEGE OF ENGINEERING</b> |           |                                      |                                 |  |  |
| 209                           | \$177,000 | FLORIDA STATE UNIV                   | Bieler, Thomas                  | CHEMICAL ENGINEERING AND MATERIALS SCI | THE EFFECT OF PROCESS HISTORY ON GRAIN BOUNDARIES AND DISLOCATION SUBSTRUCTURES ON FUNCTIONAL PROPERTIES OF NB FOR SRF CAVITIES: PLASTIC FORMABILITY AND MICROSTRUCTURAL EVOLUTION |
| 210                           | \$16,243  | VARIOUS INDUSTRIES                   | Boehlert, Carl                  | CHEMICAL ENGINEERING AND MATERIALS SCI | FEE FOR SERVICE -- CARL BOEHLERT   |
| 211                           | \$384,589 | NATIONAL SCIENCE FOUNDATION          | Chan, Christina                 | CHEMICAL ENGINEERING AND MATERIALS SCI | SATURATED FATTY ACIDS INVOLVED IN DNA DAMAGE RESPONSE, MEDIATED BY IRE1A, TO PROMOTE CHEMOTOLERANCE  |
| 212                           | \$214,269 | HELICOID INDUSTRIES                  | Drzal, Lawrence                 | CHEMICAL ENGINEERING AND MATERIALS SCI | MULTISCALE BIOINSPIRED ENHANCEMENT OF NATURAL-FIBER COMPOSITES FOR GREEN VEHICLES, PHASE 2   |
| 213                           | \$215,936 | GENERAL MOTORS CORP                  | Fang, Chengcheng                | CHEMICAL ENGINEERING AND MATERIALS SCI | HIGH VOLTAGE ELECTROLYTE FOR LITHIUM ION BATTERIES   |

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|-----|-----------|--|---------------------------------|-------------------------------------|--|
| 214 | \$40,000  | UNIVERSITY OF MARYLAND                                 | Cetin, Bora                     | CIVIL AND ENVIRONMENTAL ENGINEERING | ENVIRONMENTAL AND LIFE CYCLE ANALYSIS OF HIGHWAY INFILTRATION BERMS CONSTRUCTED WITH DREDGED SEDIMENTS |
| 215 | \$14,112  | VARIOUS INDUSTRIES                                     | Cetin, Bora                     | CIVIL AND ENVIRONMENTAL ENGINEERING | FEE FOR SERVICE - BORA CETIN   |
| 216 | \$120,500 | MINNESOTA DEPT OF TRANSPORTATION                       | Cetin, Bora                     | CIVIL AND ENVIRONMENTAL ENGINEERING | COMPARISON OF COMPOST AND PROPRIETARY SOIL AMENDMENTS FOR VEGETATION ESTABLISHMENT                     |
| 217 | \$62,557  | STATE OF IOWA DEPT OF TRANSPORTATION                   | Cetin, Bora                     | CIVIL AND ENVIRONMENTAL ENGINEERING | USE OF ORGANOSILANES TO MITIGATE THE IMPACT OF FREEZE-THAW DAMAGE TO THE GRANULAR ROADWAYS IN IOWA     |
| 218 | \$350,000 | PRAIRIE VIEW A&M UNIV                                  | Cetin, Bora                     | CIVIL AND ENVIRONMENTAL ENGINEERING | NATIONAL CENTER FOR INFRASTRUCTURE TRANSFORMATION  |
| 219 | \$16,627  | BELIMO   | Cetin, Kristen                  | CIVIL AND ENVIRONMENTAL ENGINEERING | EASE OF COMMISSIONING AND USABILITY TESTING OF HVAC COMPONENTS   |
| 220 | \$444,562 | NATIONAL SCIENCE FOUNDATION                            | Cetin, Kristen                  | CIVIL AND ENVIRONMENTAL ENGINEERING | COLLABORATIVE RESEARCH: FW-HTF-RL: FUTURE OF DIGITAL FACILITY MANAGEMENT (FUTURE OF DFM)               |
| 221 | \$210,198 | STRATEGIC ENVIRONMENTAL RESEARCH & DEVELOPMENT PROGRAM | Cupples, Alison                 | CIVIL AND ENVIRONMENTAL ENGINEERING | EVALUATING THE ENHANCEMENT AND METABOLISM OF 1,4-DIOXANE BIODEGRADATION AT LOW CONCENTRATIONS          |
| 222 | \$206,332 | MICHIGAN FITNESS FOUNDATION                            | Gates, Timothy                  | CIVIL AND ENVIRONMENTAL ENGINEERING | TECHNICAL SUPPORT FOR MICHIGAN SAFE ROUTES TO SCHOOL - FY2020  |
| 223 | \$120,000 | MICHIGAN OFFICE OF HIGHWAY SAFETY PLANNING             | Gates, Timothy                  | CIVIL AND ENVIRONMENTAL ENGINEERING | SEAT BELT AND HAND-HELD DEVICE USE DIRECT OBSERVATION SURVEY- FY23-FY25                                |
| 224 | \$27,114  | MICHIGAN DEPT OF TRANSPORTATION                        | Haider, Syed                    | CIVIL AND ENVIRONMENTAL ENGINEERING | TESTING PROTOCOL, DATA STORAGE, AND RE-CALIBRATION FOR PAVEMENT ME DESIGN                              |
| 225 | \$325,000 | EATON CORP   | Haq, Mahmoodul                  | CIVIL AND ENVIRONMENTAL ENGINEERING | HIGH STRENGTH FUNCTIONAL COMPOSITES - PHASE II   |

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| 226 | \$150,000   | INGHAM COUNTY ROAD DEPT  | Lanotte, Michele                | CIVIL AND ENVIRONMENTAL ENGINEERING | OPTIMIZATION OF TIRE-DERIVED AGGREGATES FOR LIGHTWEIGHT FILL OF ROAD UNBOUND LAYERS                       |
| 227 | \$353,968   | MICHIGAN DEPT OF TRANSPORTATION                                    | Savolainen, Peter               | CIVIL AND ENVIRONMENTAL ENGINEERING | SOCIO ECONOMIC IMPACTS OF TECHNOLOGY BASED STAKEHOLDER ENGAGEMENT PLATFORMS AND THEIR EFFECTS             |
| 228 | \$1,445,687 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                           | Xagorarakis, Irene              | CIVIL AND ENVIRONMENTAL ENGINEERING | WASTEWATER EVALUATION AND REPORTING NETWORK PROJECT - XAGORARAKI  |
| 229 | \$150,000   | LAWRENCE LIVERMORE NATIONAL LABORATORY                             | Murillo, Michael                | COMPUTATIONAL MATH SCI AND ENGR EGR | HIGH DIMENSIONAL KINETIC SIMULATIONS ENABLED BY TENSOR-TRAIN BASED DISCRETIZATIONS                        |
| 230 | \$188,556   | NATIONAL INST OF HEALTH  | Ravishankar, Saiprasad          | COMPUTATIONAL MATH SCI AND ENGR EGR | MACHINE LEARNING-BASED ADAPTATION OF DATA SAMPLING AND RECONSTRUCTION FOR EFFICIENT DYNAMIC MRI           |
| 231 | \$555,077   | NATIONAL SCIENCE FOUNDATION  | Yu, Hui-Chia                    | COMPUTATIONAL MATH SCI AND ENGR EGR | ELEMENTS: OPEN-SOURCE BATTERY ELECTRODE SIMULATION TOOLKIT USING MFEM (BESFEM)                            |
| 232 | \$445,000   | NATIONAL SCIENCE FOUNDATION  | Cao, Zhichao                    | COMPUTER SCIENCE AND ENGINEERING    | COLLABORATIVE RESEARCH: NETS: MEDIUM: TOWARDS HIGH-PERFORMING LORA WITH EMBEDDED INTELLIGENCE ON THE EDGE |
| 233 | \$25,000    | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Ghassemi, Mohammad              | COMPUTER SCIENCE AND ENGINEERING    | IMPROVING DETECTION OF HEAD AND NECK CANCER RECURRENCE USING MULTI-MODALITY AI MODELS                     |
| 234 | \$70,000    | JP MORGAN CHASE & CO   | Ghassemi, Mohammad              | COMPUTER SCIENCE AND ENGINEERING    | THE EVOLUTION OF PRIVATE CAPITAL MODELED AS A GRAPH OF INVESTMENTS  |
| 235 | \$61,899    | US ARMY RESEARCH OFFICE  | Liu, Sijia                      | COMPUTER SCIENCE AND ENGINEERING    | LIFELONG MULTIMODAL FUSION BY CROSS LAYER DISTRIBUTED OPTIMIZATION  |
| 236 | \$752,500   | INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY                   | Liu, Xiaoming                   | COMPUTER SCIENCE AND ENGINEERING    | PHYSICS-DRIVEN MODELING AND LEARNING FOR PERSON RECOGNITION AT A DISTANCE AND ALTITUDE                    |
| 237 | \$138,065   | NATIONAL SCIENCE FOUNDATION  | Ross, Arun                      | COMPUTER SCIENCE AND ENGINEERING    | SUPPLEMENT TO PHASE II IUCRC MICHIGAN STATE UNIVERSITY: CENTER FOR IDENTIFICATION TECHNOLOGY RESEARCH     |
| 238 | \$31,876    | INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY                   | Ross, Arun                      | COMPUTER SCIENCE AND ENGINEERING    | PRESENTATION ATTACK DETECTION: SOLUTIONS FOR FINGERPRINTS, FACE AND IRIS SYSTEMS                          |
| 239 | \$70,000    | JP MORGAN CHASE & CO   | Tang, Jiliang                   | COMPUTER SCIENCE AND ENGINEERING    | FIGHTING FINANCIAL CRIME WITH GRAPH NEURAL NETWORKS FROM THE OPTIMIZATION PERSPECTIVE                     |
| 240 | \$20,000    | SNAP INC   | Tang, Jiliang                   | COMPUTER SCIENCE AND ENGINEERING    | GRAPH REWRITER  |

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|-----|-----------|---|---------------------------------|-------------------------------------|--|
| 241 | \$599,995 | NATIONAL SCIENCE FOUNDATION             | Tu, Guan-Hua                    | COMPUTER SCIENCE AND ENGINEERING    | NETS: SMALL: EXPLORING THE NON-STANDARDIZED POLICES, OPERATIONS, AND REQUIREMENTS FOR 5G CELLULAR NETWORKS AND BEYOND: ADVANCING             |
| 242 | \$193,587 | NATIONAL SCIENCE FOUNDATION             | Yan, Qiben                      | COMPUTER SCIENCE AND ENGINEERING    | SATC: CORE: SMALL: ROBUST SPEAKER AND SPEECH RECOGNITION UNDER AI-DRIVEN PHYSICAL AND DIGITAL ATTACKS  |
| 243 | \$300,000 | NATIONAL SCIENCE FOUNDATION             | Zeng, Huacheng                  | COMPUTER SCIENCE AND ENGINEERING    | COLLABORATIVE RESEARCH: NETS: MEDIUM: AN INTEGRATED MULTI-TIME SCALE APPROACH TO HIGH-PERFORMANCE, INTELLIGENT, AND SECURE O-RAN BASED NEXTG |
| 244 | \$600,000 | NATIONAL SCIENCE FOUNDATION             | Biswas, Subir                   | ELECTRICAL AND COMPUTER ENGINEERING | SCH: A DATA-DRIVEN CLASSROOM INTERVENTION FRAMEWORK FOR CHILDREN WITH SOCIAL PEER ENGAGEMENT DEFICITS  |
| 245 | \$48,853  | UNIVERSITY OF PENNSYLVANIA              | Bopardikar, Shaunak             | ELECTRICAL AND COMPUTER ENGINEERING | ARCHES: AUTONOMOUS RESILIENT COGNITIVE HETEROGENEOUS SWARMS GRANT #W911NF-17-2-0181  |
| 246 | \$20,000  | AMER SOCIETY FOR NONDESTRUCTIVE TESTING | Chakrapani, Sunil Kishore       | ELECTRICAL AND COMPUTER ENGINEERING | ASNT FELLOWSHIP AWARD  |
| 247 | \$15,000  | IOWA STATE UNIV                         | Chakrapani, Sunil Kishore       | ELECTRICAL AND COMPUTER ENGINEERING | RESIDUAL STRESS MEASUREMENT USING NONLINEAR ACOUSTIC METHODS   |
| 248 | \$30,000  | AMCOR RIGID PLASTICS NORTH AMERICA      | Fan, Qi                         | ELECTRICAL AND COMPUTER ENGINEERING | CARBON-BASED BARRIER COATINGS ENABLED BY HIGH-DENSITY COLD PLASMA  |
| 249 | \$228,028 | ARIZONA STATE UNIV                      | Grotjohn, Timothy               | ELECTRICAL AND COMPUTER ENGINEERING | ULTRA MATERIALS FOR A RESILIENT, SMART ELECTRICITY GRID  |
| 250 | \$482,900 | DEFENSEWERX INC.                        | Hodek, Matthew                  | ELECTRICAL AND COMPUTER ENGINEERING | MILLIMETER-WAVE HARDWARE DEMONSTRATION FOR 6G COMMUNICATIONS   |
| 251 | \$400,000 | NATIONAL SCIENCE FOUNDATION             | Kiumarsi, Bahare                | ELECTRICAL AND COMPUTER ENGINEERING | DATA-EFFICIENT SAFE CONTROL WITH RECOVERY-TO-OPTIMALITY GUARANTEES   |
| 252 | \$176,000 | BORG WARNER CORP                        | Lee, Woongkul                   | ELECTRICAL AND COMPUTER ENGINEERING | TECHNOLOGY & DESIGN INNOVATIONS TO MAXIMIZE THE REDUCTION EFFECT ON DCFC UNIT COST ECONOMICS (MAX-REDUCE)                                    |
| 253 | \$98,000  | BORG WARNER CORP                        | Lee, Woongkul                   | ELECTRICAL AND COMPUTER ENGINEERING | ADVANCED EV PROPULSION SYSTEM DESIGN WITH WBG-BASED MULTILEVEL INVERTER TOPOLOGIES   |
| 254 | \$10,000  | UNIVERSITY OF MICHIGAN                  | Li, Tongtong                    | ELECTRICAL AND COMPUTER ENGINEERING | DETECTION AND PREDICTION OF MILD COGNITIVE IMPAIRMENT IN SENIORS WITH MEMORY COMPLAINTS  |
| 255 | \$15,650  | UNIVERSITY OF MICHIGAN                  | Li, Tongtong                    | ELECTRICAL AND COMPUTER ENGINEERING | DETECTION AND PREDICTION OF MILD COGNITIVE IMPAIRMENT IN SENIORS WITH MEMORY COMPLAINTS  |
| 256 | \$546,026 | NATIONAL INST OF HEALTH                 | Mason, Andrew                   | ELECTRICAL AND COMPUTER ENGINEERING | WEARABLE MICROSYSTEM FOR CONTINUOUS PERSONALIZED AEROSOL EXPOSURE ASSESSMENT   |



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| 257 | \$300,000   | DEFENSEWERX INC.   | Nanzer, Jeffrey                 | ELECTRICAL AND COMPUTER ENGINEERING | DECENTRALIZED COORDINATION FOR DISTRIBUTED ADAPTIVITY IN WIRELESS NETWORKS  |
| 258 | \$150,000   | TOYOTA MOTOR CORP  | Nicley, Shannon                 | ELECTRICAL AND COMPUTER ENGINEERING | RESEARCH FOR THE DEVELOPMENT OF ENHANCING THE SENSING CAPABILITY IN QUANTUM SENSING SYSTEMS WITH NV-CENTER MATERIALS                      |
| 259 | \$190,000   | FRAUNHOFER USA   | Nicley, Shannon                 | ELECTRICAL AND COMPUTER ENGINEERING | QUANTUM MEMORIES  |
| 260 | \$50,000    | NORTHROP GRUMMAN CORP  | Papapolymerou, Ioannis          | ELECTRICAL AND COMPUTER ENGINEERING | AM-ENABLED 3.5D PACKAGING AND HETEROGENEOUS INTEGRATION OF ELECTRONICS  |
| 261 | \$74,286    | UNIVERSITY OF KANSAS   | Papapolymerou, Ioannis          | ELECTRICAL AND COMPUTER ENGINEERING | MRI: DEVELOPMENT OF A RECONFIGURABLE RADAR FOR UAS APPLICATIONS   |
| 262 | \$44,000    | HONEYWELL CORP   | Papapolymerou, Ioannis          | ELECTRICAL AND COMPUTER ENGINEERING | MSU RADAR CONSORTIUM (FY23)   |
| 263 | \$1,368,013 | SAN JOSE STATE UNIV FOUNDATION                                     | Radha, Hayder                   | ELECTRICAL AND COMPUTER ENGINEERING | CLIMATE CHANGE AND EXTREME EVENTS TRAINING AND RESEARCH PROGRAM   |
| 264 | \$170,916   | IOWA STATE UNIV  | Tan, Xiaobo                     | ELECTRICAL AND COMPUTER ENGINEERING | SCC-IRG TRACK 1: CONNECTING FARMING COMMUNITIES FOR SUSTAINABLE CROP PRODUCTION AND ENVIRONMENT USING SMART AGRICULTURAL DRAINAGE SYSTEMS |
| 265 | \$500,000   | UNIVERSITY OF NEW MEXICO   | Verboncoeur, John               | ELECTRICAL AND COMPUTER ENGINEERING | EXPLORATION OF FUNDAMENTAL LIMITS TO HIGH POWER ELECTROMAGNETIC (HPM) AMPLIFICATION   |
| 266 | \$125,107   | UNIVERSITY OF MICHIGAN   | Bush, Tamara                    | ENGINEERING DEAN                    | MICHIGAN LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION PHASE IV  |
| 267 | \$40,000    | UNIVERSITY OF MICHIGAN   | Aguirre, Aitor                  | INSTITUTE FOR QUANTITATIVE HEALTH   | A HUMAN HEART ORGANOID MODEL TO STUDY MATERNAL DIABETES-INDUCED CARDIAC EMBRYOPATHIES   |
| 268 | \$6,000     | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Alessio, Adam                   | INSTITUTE FOR QUANTITATIVE HEALTH   | LEVERAGING PATIENT REPORTED OUTCOMES IN MULTIMODAL RISK PREDICTION FOR HEALTH UTILIZATION AMONG HEAD AND NECK AND LUNG CANCER PATIENTS    |
| 269 | \$12,500    | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Bhattacharya, Sudin             | INSTITUTE FOR QUANTITATIVE HEALTH   | INVESTIGATE IMPACTS OF CHEMICAL AGENTS ON PANCREATIC CANCER INITIATION USING OMICS APPROACHES   |
| 270 | \$12,500    | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Kim, Taeho                      | INSTITUTE FOR QUANTITATIVE HEALTH   | BIOMIMETIC PRUSSIAN BLUE NANOHYBRIDS FOR GLIOBLASTOMA TREATMENT   |
| 271 | \$1,999,999 | NATIONAL SCIENCE FOUNDATION  | Li, Jinxing                     | INSTITUTE FOR QUANTITATIVE HEALTH   | EFRI ELIS: BIOSYNTHETIC ADDITIVE MANUFACTURING OF LIVING BUILDING MATERIALS   |

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| 272 | \$47,077    | NATIONAL SCIENCE FOUNDATION                 | Li, Wen                         | INSTITUTE FOR QUANTITATIVE HEALTH | SITS: WIRELESS, SUSTAINABLE, AND AUTOMATED SENSORY SYSTEM FOR IN-SITU MONITORING OF SOIL HEAVY METALS   |
| 273 | \$399,730   | NATIONAL SCIENCE FOUNDATION                 | Saha, Debajit                   | INSTITUTE FOR QUANTITATIVE HEALTH | COLLABORATIVE RESEARCH: NEURAL COMPUTATIONAL RULES OF ROBUST AND GENERALIZABLE LEARNING   |
| 274 | \$250,000   | JUVENILE DIABETES FOUNDATION INTL           | Smith, Bryan                    | INSTITUTE FOR QUANTITATIVE HEALTH | MULTICOLOR CELLULAR IMMUNOIMAGING OF RESPONSE TO TRANSPLANTED ISLET CELLS   |
| 275 | \$200,000   | NATIONAL SCIENCE FOUNDATION                 | Anthony, Rebecca                | MECHANICAL ENGINEERING            | EAGER: LOW-TEMPERATURE PLASMAS FOR SYNTHESIS OF DIAMOND NANOPARTICLES   |
| 276 | \$378,414   | NATIONAL INST OF FOOD & AGRICULTURE         | Benard, Andre                   | MECHANICAL ENGINEERING            | INFEWS/T3: ADVANCED ENERGY EFFICIENT GREENHOUSE SYSTEMS USING SPECTRAL SPLITTING AND SOLAR WATER PURIFICATION   |
| 277 | \$16,000    | NATIONAL SCIENCE FOUNDATION                 | Bush, Tamara                    | MECHANICAL ENGINEERING            | REU FOR PFI-RP: AN INNOVATIVE WHEELCHAIR DESIGN THAT SHIFTS BODY PRESSURES AUTOMATICALLY TO PREVENT TISSUE DAMAGE AND INJURY  |
| 278 | \$963,461   | NATIONAL SCIENCE FOUNDATION                 | Fan, Bei                        | MECHANICAL ENGINEERING            | MRI: TRACK 1 ACQUISITION OF A DEEP REACTIVE ION ETCHING SYSTEM FOR ENHANCED SEMICONDUCTOR PROCESSING CAPABILITY   |
| 279 | \$450,000   | NATIONAL SCIENCE FOUNDATION                 | Gao, Tong                       | MECHANICAL ENGINEERING            | MANEUVERING BIOINSPIRED SOFT MICROROBOTS IN ANISOTROPIC COMPLEX FLUIDS  |
| 280 | \$202,000   | NATIONAL SCIENCE FOUNDATION                 | Li, Zhaojian                    | MECHANICAL ENGINEERING            | COLLABORATIVE RESEARCH: SPADEPC: SCALABLE AND PRIVACY-AWARE DATA-ENABLED PREDICTIVE CONTROL FOR HETEROGENEOUS MIXED TRAFFIC SYSTEMS                                 |
| 281 | \$335,789   | NATIONAL SCIENCE FOUNDATION                 | Lin, Shaoting                   | MECHANICAL ENGINEERING            | COLLABORATIVE RESEARCH: CHEMO-PHYSICS AND MOLECULAR DESIGN OF IN-SITU HYDROGEL-MXENE BIOSENSORS   |
| 282 | \$241,706   | METIS FOUNDATION                            | Mejia, Ricardo                  | MECHANICAL ENGINEERING            | AN OVINE TRANSLATIONAL MODEL OF BLAST-RELATED AUDITORY INJURY   |
| 283 | \$70,000    | THE GENEVA FOUNDATION                       | Mejia, Ricardo                  | MECHANICAL ENGINEERING            | LINKING BRAIN DEFORMATION TO ENVIRONMENTAL SENSOR DATA VIA VALIDATING A GYRATED HUMAN HEAD PHANTOM UNDER IMPULSIVE LOADING  |
| 284 | \$1,999,188 | NATIONAL SCIENCE FOUNDATION                 | Mukherjee, Ranjan               | MECHANICAL ENGINEERING            | FW-HTF-RL: IMPROVING DISABILITY INCLUSION IN THE WORKFORCE THROUGH ASSESSMENT AND AUGMENTATION OF INDIVIDUAL ABILITIES AND WORKFLOW REDESIGN IN REAL-WORLD CONTEXTS |
| 285 | \$75,000    | OFFICE OF NAVAL RESEARCH                    | Mukherjee, Ranjan               | MECHANICAL ENGINEERING            | OPTIMIZATION OF A BERNOULLI PAD FOR IMPROVING THE EFFICACY OF SHEAR-BASED GROOMING OF MARINE BIOFOULING   |
| 286 | \$66,601    | US DEPT OF THE ARMY                         | Toulson, Elisa                  | MECHANICAL ENGINEERING            | JET FUEL TURBULENT JET IGNITION SYSTEM FOR COMPRESSION IGNITION ENGINES   |
| 287 | \$45,000    | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Wichman, Indrek                 | MECHANICAL ENGINEERING            | DEVELOPING THE NARROW CHANNEL APPARATUS AS A NASA STANDARD MATERIAL FLAMMABILITY TEST   |

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|     | <b>COLLEGE OF HUMAN MEDICINE</b> |  |                                 |   |  |
| 288 | \$10,603                         | WENNER GREN FOUNDATION   | Cascio, Ariel                   | CENTER FOR BIOETHICS AND SOCIAL JUSTICE | MEANINGS OF AUTISM AND WORK: AUTISTIC AND NON-AUTISTIC PEOPLE NAVIGATING SHARED SPACES AND CONFLICTING CONCEPTUALIZATIONS                  |
| 289 | \$500,000                        | MICHIGAN HEALTH ENDOWMENT FUND                                     | Custack, Amy                    | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | IMPROVING ENGAGEMENT IN PRODUCE PRESCRIPTION PROGRAMS  |
| 290 | \$1,000,000                      | JAMIE & DENISE JACOB FAMILY FOUNDATION                             | Hanna-Attisha, Mona             | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | RX KIDS: PRENATAL AND INFANT ALLOWANCES IN FLINT, MI   |
| 291 | \$1,200,000                      | RUTH MOTT FOUNDATION   | Hanna-Attisha, Mona             | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | RX KIDS: A PRENATAL AND INFANT ALLOWANCE IN FLINT, MI  |
| 292 | \$24,281                         | HENRY FORD HEALTH SYSTEM   | Johnson, Jennifer               | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | IMPROVING DECISION MAKING TO PREVENT SUBSTANCE MISUSE AMONG ADOLESCENTS FROM TRADITIONALLY UNDERSERVED COMMUNITIES                         |
| 293 | \$1,228,026                      | NATIONAL INST OF MENTAL HEALTH                                     | Johnson, Jennifer               | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | THE ROSE SCALE-UP STUDY: INFORMING A DECISION ABOUT ROSE AS UNIVERSAL POSTPARTUM DEPRESSION PREVENTION                                     |
| 294 | \$2,985,597                      | NATIONAL INST OF MENTAL HEALTH                                     | Johnson, Jennifer               | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | THE NATIONAL CENTER FOR HEALTH AND JUSTICE INTEGRATION FOR SUICIDE PREVENTION  |
| 295 | \$50,000                         | BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION                      | Lucas, Todd                     | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | COMMUNITY OUTREACH AND CULTURALLY TARGETED COMMUNICATION TO ENHANCE AWARENESS AND EARLY PREVENTION OF COLORECTAL CANCER IN YOUNGER ADULTS. |
| 296 | \$20,000                         | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Lucas, Todd                     | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | COMMUNITY OUTREACH AND CULTURALLY TARGETED COMMUNICATION TO ENHANCE AWARENESS AND EARLY PREVENTION OF COLORECTAL CANCER IN YOUNGER ADULTS  |
| 297 | \$496,906                        | NATIONAL INST OF ALCOHOL ABUSE & ALCOHOLISM                        | Ondersma, Steven                | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | SCALING UP: A MULTI-SITE TRIAL OF E-SBI FOR ALCOHOL USE IN PREGNANCY   |
| 298 | \$52,934                         | UMASS CHAN MEDICAL SCHOOL  | Ondersma, Steven                | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | A TEXT MESSAGING INTERVENTION (TMI) TO REDUCE PERINATAL DEPRESSION RISK  |
| 299 | \$100,000                        | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                           | Ondersma, Steven                | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | MICHIGAN STATE OPIOID RESPONSE 2 PROJECT "HT2 TECHNOLOGY PROPOSAL (HT2 MI) SAMHSA STATE OPIOID RESPONSE                                    |
| 300 | \$93,000                         | UNIVERSITY OF MICHIGAN   | Sadler, Richard                 | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | PREVENTION RESEARCH CENTER OF MICHIGAN   |
| 301 | \$1,000,000                      | CENTERS FOR DISEASE CONTROL & PREVENTION                           | Uphold, Heatherlun              | CS MOTT DEPARTMENT OF PUBLIC HEALTH     | THE NATIONAL NETWORK TO INNOVATE FOR COVID-19 AND ADULT VACCINE EQUITY (NNICE)   |
| 302 | \$73,064                         | UNIVERSITY OF MICHIGAN   | Bohnert, Kipling                | EPIDEMIOLOGY AND BIOSTATISTICS          | ASSOCIATION BETWEEN STATE-LEVEL PRESCRIPTION OPIOID LIMITATION LAWS & SUICIDE OUTCOMES   |

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| 303 | \$36,393    | UNIVERSITY OF MICHIGAN                      | Bohnert, Kipling                | EPIDEMIOLOGY AND BIOSTATISTICS    | FACILITATING USE OF THE NATIONAL SUICIDE PREVENTION LIFELINE IN ALCOHOL PATIENTS   |
| 304 | \$24,187    | UNIVERSITY OF MICHIGAN                      | Hirko, Kelly                    | EPIDEMIOLOGY AND BIOSTATISTICS    | MYGI DIET FOR COLORECTAL CANCER PREVENTION   |
| 305 | \$25,000    | UNIVERSITY OF MICHIGAN                      | Kerver, Jean                    | EPIDEMIOLOGY AND BIOSTATISTICS    | ECHO INITIATIVE YEAR 5   |
| 306 | \$3,378,982 | NATIONAL INST OF HEALTH                     | Kerver, Jean                    | EPIDEMIOLOGY AND BIOSTATISTICS    | PRENATAL EXPOSURES AND CHILD HEALTH OUTCOMES 2: INCREASING ECHO URBAN AND RURAL DIVERSITY                                |
| 307 | \$150,786   | NATIONAL INST OF HEALTH                     | Li, Chenxi                      | EPIDEMIOLOGY AND BIOSTATISTICS    | EFFICIENT METHODS FOR GENOME-WIDE SURVIVAL ANALYSIS OF EARLY CHILDHOOD CARIES  |
| 308 | \$796,636   | NATIONAL INST OF HEALTH                     | Lockhart, Elizabeth             | EPIDEMIOLOGY AND BIOSTATISTICS    | A MULTILEVEL, MULTIPHASE OPTIMIZATION STRATEGY FOR PREP: PATIENTS AND PROVIDERS IN PRIMARY CARE                          |
| 309 | \$62,486    | UNIVERSITY OF COLORADO                      | Luo, Zhehui                     | EPIDEMIOLOGY AND BIOSTATISTICS    | IMPLEMENTING OBESITY TREATMENT IN PRIMARY CARE UTILIZING EVIDENCE-BASED STRUCTURES                                       |
| 310 | \$564,604   | NATIONAL INST OF HEALTH                     | Margerison, Claire              | EPIDEMIOLOGY AND BIOSTATISTICS    | PREGNANCY-ASSOCIATED MORTALITY AND MORBIDITY DUE TO DRUGS, SELF-HARM, AND VIOLENCE IN THE UNITED STATES                  |
| 311 | \$605,601   | NATIONAL INST OF HEALTH                     | Upson, Kristen                  | EPIDEMIOLOGY AND BIOSTATISTICS    | CONTRACEPTIVE DMPA-INDUCED BONE LOSS: A NOVEL SOURCE OF TOXIC METAL LEAD EXPOSURE IN YOUNG WOMEN                         |
| 312 | \$77,415    | UNIVERSITY OF TEXAS AT AUSTIN               | Vazquez, Ana                    | EPIDEMIOLOGY AND BIOSTATISTICS    | USING METABOLOMICS TO DEFINE THE BEHAVIORAL PHENOMICS OF ENERGY BALANCE AND EXERCISE RESPONSE                            |
| 313 | \$542,283   | NATIONAL INST OF HEALTH                     | Alshaarawy, Omayma              | FAMILY MEDICINE, DEPARTMENT OF    | CANNABIS USE AND CARDIOVASCULAR HEALTH OUTCOMES AMONG PATIENTS WITH HIGH BLOOD PRESSURE                                  |
| 314 | \$2,037,497 | US DEPT OF THE ARMY                         | Cunningham, Natoshia            | FAMILY MEDICINE, DEPARTMENT OF    | TRANSFORMING BEHAVIORAL HEALTHCARE TO IMPROVE THE QUALITY OF LIFE FOR INDIVIDUALS WITH CHILDHOOD-ONSET LUPUS             |
| 315 | \$14,025    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES    | Oostema, John                   | HUMAN MEDICINE DEAN               | MICHIGAN'S ONGOING STROKE REGISTRY TO ACCELERATE IMPROVEMENT OF CARE - OOSTEMA CONSULTANT                                |
| 316 | \$19,969    | LAGUNA BIO                                  | Hardy, Jonathan                 | INSTITUTE FOR QUANTITATIVE HEALTH | CHARACTERIZATION OF LISTERIA VACCINES FOR LAGUNA BIOTECH   |
| 317 | \$99,660    | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | Knickmeyer, Rebecca             | INSTITUTE FOR QUANTITATIVE HEALTH | THE DEVELOPMENT OF GUT MICROBIOTA AND BEHAVIORAL INHIBITION IN CHILDHOOD: THE ROLE OF EARLY STRESS AND BRAIN DEVELOPMENT |
| 318 | \$430,375   | NATIONAL INST OF HEALTH                     | Knickmeyer, Rebecca             | INSTITUTE FOR QUANTITATIVE HEALTH | DOES MICROBIOME COMPOSITION MODERATE GI AND CNS FUNCTION IN A VPA-INDUCED MOUSE MODEL OF AUTISM?                         |
| 319 | \$103,731   | UNIVERSITY OF CAPE TOWN                     | Knickmeyer, Rebecca             | INSTITUTE FOR QUANTITATIVE HEALTH | EARLY BRAIN DEVELOPMENT IN CHILDREN BORN TO DEPRESSED MOTHERS IN HIGH AND LOW-INCOME SETTINGS                            |

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| 320 | \$511,589    | NATIONAL INST OF HEALTH                         | Park, Sangbum                   | INSTITUTE FOR QUANTITATIVE HEALTH      | UNDERSTANDING IMMUNE-EPITHELIAL INTERACTIONS DURING WOUND REPAIR IN LIVE MAMMALS  |
| 321 | \$158,010    | NATIONAL INST OF HEALTH                         | Schmidt, Jens                   | INSTITUTE FOR QUANTITATIVE HEALTH      | DEFINING THE ROLE OF TCAB1 AND ITS PHASE SEPARATION IN TELOMERASE ASSEMBLY.   |
| 322 | \$40,000     | MICHIGAN DEPT OF LICENSING & REGULATORY AFFAIRS | Harduar Morano, Laurel          | MEDICINE                               | PROVIDING TECHNICAL ASSISTANCE TO PREVENT AGRICULTURE-RELATED TRAUMATIC FATAL INJURIES  |
| 323 | \$100,000    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Harduar Morano, Laurel          | MEDICINE                               | ENHANCEMENT OF OCCUPATIONAL/ENVIRONMENTAL MEDICINE (PARTIAL FACULTY POSITION) (MDHHS TITLE: OCCUPATIONAL HEALTH SURVEILLANCE (AT))                          |
| 324 | \$200,000    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Rosenman, Kenneth               | MEDICINE                               | ADULT BLOOD LEAD EPIDEMIOLOGY AND SURVEILLANCE PROJECT  |
| 325 | \$10,000     | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Rosenman, Kenneth               | MEDICINE                               | ENHANCEMENT OF OCCUPATIONAL/ENVIRONMENTAL MEDICINE  |
| 326 | \$17,128     | UNIVERSITY OF MICHIGAN                          | Rosenman, Kenneth               | MEDICINE                               | SUPERFUND RESEARCH PROGRAM OCCUPATIONAL HEALTH AND SAFETY EDUCATION PROGRAMS ON EMERGING TECHNOLOGIES   |
| 327 | \$75,000     | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Wang, Ling                      | MEDICINE                               | BIostatistical SUPPORT  |
| 328 | \$25,000     | AMER MEDICAL ASSOC                              | Wang, Ling                      | MEDICINE                               | NATURAL LANGUAGE PROCESSING METHODS TO IDENTIFY KEY TERMS IN HISTORY GATHERING AND PHYSICAL EXAMINATION BASED ON PATIENTS NOTES WRITTEN BY MEDICAL STUDENTS |
| 329 | \$18,393,034 | NATIONAL INST OF HEALTH                         | Johnson, Christine              | OBSTETRICS GYNECOLOGY REPRODUCTIVE BIO | ALL OF US RESEARCH PROGRAM TRANS-AMERICA CONSORTIUM OF THE HCSRN  |
| 330 | \$164,619    | NATIONAL INST OF HEALTH                         | MacKeigan, Jeffrey              | OBSTETRICS GYNECOLOGY REPRODUCTIVE BIO | ULK1 INHIBITOR IN COMBINATION WITH IMMUNE CHECKPOINT BLOCKADE IN PANCREATIC CANCER  |
| 331 | \$199,391    | NATIONAL INST OF HEALTH                         | Meghea, Cristian                | OBSTETRICS GYNECOLOGY REPRODUCTIVE BIO | A SMARTPHONE INTERVENTION FOR PREGNANCY SMOKING CESSATION WITH PEER SUPPORT   |
| 332 | \$42,576     | UNIVERSITY OF MICHIGAN                          | Missmer, Stacey                 | OBSTETRICS GYNECOLOGY REPRODUCTIVE BIO | NOVEL BIOMARKERS AND PATHWAYS OF PERSISTENT ENDOMETRIOSIS-ASSOCIATED PAIN ACROSS THE LIFE COURSE  |

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|-----|-------------|---|---------------------------------|--|---|
| 333 | \$1,087,575 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Poland, Cara                    | OBSTETRICS<br>GYNECOLOGY<br>REPRODUCTIVE BIO | MI-CARES (SOR3)   |
| 334 | \$200,000   | MICHIGAN PUBLIC HEALTH INST                     | Poland, Cara                    | OBSTETRICS<br>GYNECOLOGY<br>REPRODUCTIVE BIO | PROVIDING TECHNICAL ASSISTANCE TO MICHIGAN COMMUNITIES FOR THE STATE'S OPIOID SETTLEMENT FUNDS  |
| 335 | \$24,128    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Poland, Cara                    | OBSTETRICS<br>GYNECOLOGY<br>REPRODUCTIVE BIO | PILOT FOR TREATMENT OF POST-PARTUM WOMEN (FY22-23)  |
| 336 | \$50,000    | SPECTRUM HEALTH SYSTEM                          | Roman, Leeanne                  | OBSTETRICS<br>GYNECOLOGY<br>REPRODUCTIVE BIO | STRONG BEGINNINGS   |
| 337 | \$389,237   | SUPERIOR HEALTH FOUNDATION                      | Alavi, Zakia                    | PEDIATRICS AND HUMAN DEVELOPMENT             | UP TEACH UPPER PENINSULA TRAINING & ENHANCING ACCESS COLLABORATIVE HEALTHCARE   |
| 338 | \$34,119    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Alavi, Zakia                    | PEDIATRICS AND HUMAN DEVELOPMENT             | MICHIGAN CHILD COLLABORATIVE CARE (MC3-CONNECT)—PSYCHIATRY RESPONSE   |
| 339 | \$346,747   | NATIONAL INST OF HEALTH                         | Chen, Bin                       | PEDIATRICS AND HUMAN DEVELOPMENT             | REPURPOSE OPEN DATA TO DISCOVER THERAPEUTICS FOR UNDERSTUDIED DISEASES  |
| 340 | \$103,178   | NATIONAL INST OF HEALTH                         | Chen, Bin                       | PEDIATRICS AND HUMAN DEVELOPMENT             | EQUIPMENT PURCHASES FOR R01GM145700   |
| 341 | \$15,000    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | English, Boyce                  | PEDIATRICS AND HUMAN DEVELOPMENT             | PEDIATRIC GENETICS – FEE FOR SERVICE  |
| 342 | \$7,000     | NOVO NORDISK                                    | Jobe, Shawn                     | PEDIATRICS AND HUMAN DEVELOPMENT             | NN7769-4728: OPEN-LABEL SAFETY STUDY IN ADULTS AND ADOLESCENTS WITH HAEMOPHILIA A WITH AND WITHOUT FVIII INHIBITORS SWITCHING DIRECTLY FROM EMICIZUMAB PROPHYLAXIS TO NNC0365-3769 (MIM8) PROPHYLAXIS |
| 343 | \$75,000    | VERSITI BLOOD RESEARCH INSTITUTE FOUNDATION INC | Jobe, Shawn                     | PEDIATRICS AND HUMAN DEVELOPMENT             | VERSITI BLOOD RESEARCH INSTITUTE FOUNDATION   |
| 344 | \$20,000    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES        | Jobe, Shawn                     | PEDIATRICS AND HUMAN DEVELOPMENT             | SICKLE CELL CLINIC EXPANSION AND ENHANCEMENT PROGRAM  |
| 345 | \$15,000    | AMER THROMBOSIS & HEMOSTASIS NETWORK            | Jobe, Shawn                     | PEDIATRICS AND HUMAN DEVELOPMENT             | ATHN DATA QUALITY COUNTS 15   |

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| 346 | \$86,598  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                           | Karna, Padmani                  | PEDIATRICS AND HUMAN DEVELOPMENT       | VERMONT OXFORD NETWORK MI QUALITY INITIATIVE   |
| 347 | \$7,000   | APCINTEX LTD   | Kulkarni, Roshni                | PEDIATRICS AND HUMAN DEVELOPMENT       | AP-0105: A GLOBAL, NON-INTERVENTIONAL STUDY TO PROSPECTIVELY EVALUATE BLEEDING EPISODES AND TREATMENT USE IN PATIENTS WITH HEMOPHILIA                  |
| 348 | \$50,000  | COREWELL HEALTH  | Li, Xiaopeng                    | PEDIATRICS AND HUMAN DEVELOPMENT       | CYSTIC FIBROSIS FERRET WITH CFTR G551D MUTATIONS AS A NOVEL MODEL FOR CHRONIC PSEUDOMONAS AERUGINOSA AIRWAY INFECTION”                                 |
| 349 | \$79,357  | HENRY FORD HEALTH SYSTEM   | Omar, Said                      | PEDIATRICS AND HUMAN DEVELOPMENT       | HFHS INTERNAL GRANT PROGRAM THE FIRST YEAR OF LIFE: EVALUATION OF FAMILY FINANCIAL HARDSHIP AND SOCIOECONOMIC DISPARITIES IN MEDICALLY COMPLEX INFANTS |
| 350 | \$26,870  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                           | Sigal, Yakov                    | PEDIATRICS AND HUMAN DEVELOPMENT       | PEDIATRIC EPILEPSY ACCESS PROJECT -2024  |
| 351 | \$40,000  | CARDIO-FACIO-CUTANEOUS INTERNATIONAL                               | Vogt, Daniel                    | PEDIATRICS AND HUMAN DEVELOPMENT       | ASSESSING BRAF GENETIC VARIANTS FOR DISTINCT NEUROLOGICAL SYMPTOMS   |
| 352 | \$16,666  | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Horibata, Sachi                 | PHARMACOLOGY TOXICOLOGY HUMAN MEDICINE | EXAMINING THE METABOLIC LINK BETWEEN OBESITY AND CHEMORESISTANCE IN OVARIAN CANCER   |
| 353 | \$157,000 | NATIONAL INST OF HEALTH  | Gui, Hongsheng                  | PSYCHIATRY HUMAN MEDICINE              | ASSEMBLY AND RE-ALIGNMENT OF HLA GENOMIC REGION AND ITS IMPLICATION FOR FINE-MAPPING SUICIDALITY IN AFRICAN DESCENT POPULATION                         |
| 354 | \$20,000  | EMORY UNIV   | Mahmoudi, Morteza               | RADIOLOGY HUMAN MEDICINE               | LEVERAGING 3D BIOPRINTED ORGANOID CONSTRUCTS TO PATTERN AND MODEL HUMAN BRAIN DEVELOPMENT  |
| 355 | \$417,000 | NATIONAL INST OF HEALTH  | Shapiro, Erik                   | RADIOLOGY HUMAN MEDICINE               | EVALUATION OF TANTALUM OXIDE NANOPARTICLES FOR IN VIVO X-RAY COMPUTED TOMOGRAPHY EVALUATION OF IMPLANTABLE BIOMATERIALS                                |
| 356 | \$207,617 | UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER                    | Zhu, David                      | RADIOLOGY HUMAN MEDICINE               | IMPACT OF INTENSIVE TREATMENT OF SYSTOLIC BLOOD PRESSURE ON BRAIN PERFUSION, AMYLOID AND TAU IN OLDER ADULTS (IPAT-STUDY)                              |
| 357 | \$130,315 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                           | Brooks, Kevin                   | THE INSTITUTE FOR HEALTH POLICY        | FY24 INTEGRATED CARE ASSESSMENT  |
| 358 | \$206,741 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                           | Brooks, Kevin                   | THE INSTITUTE FOR HEALTH POLICY        | FY24 TRANSLATING EVIDENCE INTO DEMONSTRATIONS  |

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| 359                     | \$121,280 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Brooks, Kevin                   | THE INSTITUTE FOR HEALTH POLICY | FY24 OPIOID ANALYTICS  |
| 360                     | \$20,000  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Oberst, Kathleen                | THE INSTITUTE FOR HEALTH POLICY | FY24 LOCAL HEALTH DEPT REGIONAL EDUCATION SEMINARS   |
| 361                     | \$54,936  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Oberst, Kathleen                | THE INSTITUTE FOR HEALTH POLICY | FY24 COMPREHENSIVE QUALITY STRATEGY  |
| 362                     | \$515,215 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Oberst, Kathleen                | THE INSTITUTE FOR HEALTH POLICY | FY24 FLINT WATER EVALUATION  |
| 363                     | \$277,927 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Oberst, Kathleen                | THE INSTITUTE FOR HEALTH POLICY | FY24 QUALITY IMPROVEMENT WORK PLAN   |
| 364                     | \$199,451 | ALZHEIMERS ASSOC                         | Benskey, Matthew                | TRANSLATIONAL NEUROSCIENCE      | MECHANISMS OF COMPLEMENT MEDIATED SYNAPTIC REMOVAL FOLLOWING TAUOPATHY   |
| 365                     | \$158,270 | UNIVERSITY OF GEORGIA                    | Counts, Scott                   | TRANSLATIONAL NEUROSCIENCE      | NOVEL REENGINEERED MICROBIOME-BASED BIOLOGIC THERAPY TO TREAT COGNITIVE AND BEHAVIORAL SYMPTOMS OF ALZHEIMER'S DISEASE AND RELATED DEMENTIAS |
| 366                     | \$354,973 | UNIVERSITY OF ILLINOIS CHICAGO           | Kanaan, Nicholas                | TRANSLATIONAL NEUROSCIENCE      | TAU CONFORMATION IN TAUOPATHIES AND NEURONAL FUNCTION  |
| 367                     | \$11,322  | UNIVERSITY OF MICHIGAN                   | Kanaan, Nicholas                | TRANSLATIONAL NEUROSCIENCE      | MICHIGAN ALZHEIMER'S DISEASE RESEARCH CENTER   |
| 368                     | \$357,022 | UNIVERSITY OF MICHIGAN                   | Kanaan, Nicholas                | TRANSLATIONAL NEUROSCIENCE      | MICHIGAN ALZHEIMER'S DISEASE RESEARCH CENTER   |
| 369                     | \$198,043 | ALZHEIMERS ASSOC                         | Morgan, David                   | TRANSLATIONAL NEUROSCIENCE      | 5HT2C TREATMENT OF PSYCHOLOGICAL SYMPTOMS OF DEMENTIA  |
| 370                     | \$31,417  | METHODIST RESEARCH INSTITUTE INC         | Morgan, David                   | TRANSLATIONAL NEUROSCIENCE      | CLINICAL TRIAL READINESS FOR SCA1 AND SCA3   |
| 371                     | \$509,806 | TAKEDA PHARMACEUTICAL CO LTD             | Sortwell, Caryl                 | TRANSLATIONAL NEUROSCIENCE      | SYNUCLEINOPATHY TRIGGERED NLRP3 INFLAMMASOME   |
| 372                     | \$14,899  | UNIVERSITY OF MICHIGAN                   | Vega, Irving                    | TRANSLATIONAL NEUROSCIENCE      | TRAINING IN CLINICAL AND BASIC NEUROSCIENCE  |
| <b>COLLEGE OF MUSIC</b> |           |  |                                 |                                 |  |



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| 373                               | \$50,000  | COMMUNITY FOUNDATION FOR SOUTHEAST MICHIGAN   | Johnson, Kristopher             | COMMUNITY MUSIC SCHOOL             | CONTINUING EDUCATION FOR ADULTS THROUGH MUSIC PRODUCTION   |
| <b>COLLEGE OF NATURAL SCIENCE</b> |           |   |                                 |                                    |  |
| 374                               | \$383,339 | NATIONAL INST OF HEALTH                       | Kim, Hyojin (Kelly)             | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | MECHANISTIC UNDERSTANDING OF POST-TRANSLATIONAL MEMBRANE PROTEIN TARGETING   |
| 375                               | \$317,277 | NATIONAL INST OF HEALTH                       | Lohman, Jeremy                  | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | MALONYL-THIOESTER ISOSTERES TO DETERMINE ENZYME STRUCTURE-FUNCTION RELATIONSHIPS   |
| 376                               | \$249,000 | NATIONAL INST OF GENERAL MEDICAL SCIENCES     | Andorfer, Mary                  | CHEMISTRY                          | INVESTIGATION AND APPLICATION OF HYDROCARBON-DEGRADING ENZYMES USING CRYO-ELECTRON MICROSCOPY AND DIRECTED EVOLUTION                     |
| 377                               | \$265,000 | US DEPT OF ENERGY                             | Beck, Warren                    | CHEMISTRY                          | LIGHT HARVESTING IN SEMICONDUCTOR QUANTUM DOTS   |
| 378                               | \$575,000 | NATIONAL SCIENCE FOUNDATION                   | Borhan, Babak                   | CHEMISTRY                          | POINT-TO-AXIAL CHIRALITY TRANSFER: ENABLING STEREOCHEMICAL DETERMINATIONS AND ENANTIOSELECTIVE REACTIONS                                 |
| 379                               | \$36,000  | TELEDYNE FLIR                                 | Dantus, Marcos                  | CHEMISTRY                          | FLIR COHERENT RAMAN SYSTEM FOR NON-CONTACT CHEMICAL DETECTION  |
| 380                               | \$150,000 | DEFENSE THREAT REDUCTION AGENCY               | Harel, Elad                     | CHEMISTRY                          | UNLABELED SINGLE VIRUS DETECTION AND IDENTIFICATION BY QUANTUM PHONON SPECTROSCOPY AND IMAGING   |
| 381                               | \$500,000 | DEFENSE THREAT REDUCTION AGENCY               | Harel, Elad                     | CHEMISTRY                          | REAL-TIME DETECTION OF CONTAMINANTS IN BIOPHARMACEUTICALS BY AI-ENABLED QUANTUM COHERENCE SPECTROSCOPY                                   |
| 382                               | \$85,050  | OFFICE OF NAVAL RESEARCH                      | Harel, Elad                     | CHEMISTRY                          | ULTRASENSITIVE AND RAPID MULTI-DIMENSIONAL SPECTRAL SENSING AT STANDOFF DISTANCES BY NON-UNIFORM SAMPLING AND STATISTICAL RECONSTRUCTION |
| 383                               | \$100,321 | GLYCAN THERAPEUTICS                           | Huang, Xuefei                   | CHEMISTRY                          | SYNTHESIS OF THE LIBRARY OF HEPARAN SULFATE HEXASACCHARIDE MIMETICS  |
| 384                               | \$140,000 | PRINCETON UNIV                                | McCusker, James                 | CHEMISTRY                          | BIOINSPIRED LIGHT-ESCALATED CHEMISTRY (BIOLEC)   |
| 385                               | \$293,845 | IASO THERAPEUTICS INC                         | Odom, Aaron                     | CHEMISTRY                          | Q-BETA NANOPARTICLES AS CARRIER PROTEINS FOR GRAM-NEGATIVE OAG HAPTENS   |
| 386                               | \$376,597 | NATIONAL SCIENCE FOUNDATION                   | Odom, Aaron                     | CHEMISTRY                          | DISCOVERING DESIGN CRITERIA IN EARLY TRANSITION METAL CATALYSIS  |
| 387                               | \$40,000  | SOCIETY FOR ANALYTICAL CHEMISTS OF PITTSBURGH | Qiu, Tian (Autumn)              | CHEMISTRY                          | SPATIAL MOLECULAR TOXICOLOGY OF PER- AND POLYFLUORINATED SUBSTANCES (PFAS) USING MASS SPECTROMETRY IMAGING                               |

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| 388 | \$73,780    | NATIONAL SCIENCE FOUNDATION                 | Wang, Tuo                       | CHEMISTRY                           | CAREER: FUNCTIONAL STRUCTURE AND DYNAMICS OF COMPLEX CARBOHYDRATES VIA SENSITIVITY-ENHANCED SOLID-STATE NMR AND DATABASE DEVELOPMENT                          |
| 389 | \$435,795   | NATIONAL SCIENCE FOUNDATION                 | Christlieb, Andrew              | COMPUTATIONAL MATH SCI AND ENGR CNS | COLLABORATIVE RESEARCH: HDR DSC: INCREASING ACCESSIBILITY THROUGH BUILDING ALTERNATIVE DATA SCIENCE PATHWAYS  |
| 390 | \$220,000   | US DEPT OF ENERGY                           | Lin, Huey-Wen                   | COMPUTATIONAL MATH SCI AND ENGR CNS | HIGH ENERGY PHYSICS COMPUTING TRAINEESHIP FOR LATTICE GAUGE THEORY  |
| 391 | \$18,675    | NATIONAL SCIENCE FOUNDATION                 | Perea, Jose                     | COMPUTATIONAL MATH SCI AND ENGR CNS | CAREER: MACHINE LEARNING, MAPPING SPACES, AND OBSTRUCTION THEORETIC METHODS IN TOPOLOGICAL DATA ANALYSIS  |
| 392 | \$16,400    | UNIVERSITY OF MICHIGAN                      | Xie, Yuying                     | COMPUTATIONAL MATH SCI AND ENGR CNS | RESTORING THE IMMUNOGENICITY OF HEAD AND NECK CANCER  |
| 393 | \$1,952,324 | USDA-NATURAL RESOURCES CONSERVATION SERVICE | Basso, Bruno                    | EARTH AND ENVIRONMENTAL SCIENCES    | SOIL CARBON IDEA: INCLUSION, DIVERSITY, EQUITY AND ACCESS IN HIGHLY DIVERSE CROPPING SYSTEMS AND PEOPLE IN THE NORTHEAST US                                   |
| 394 | \$25,123    | MICHIGAN WHEAT PROGRAM                      | Basso, Bruno                    | EARTH AND ENVIRONMENTAL SCIENCES    | SUSTAINABLE INTENSIFICATION OF WHEAT PRODUCTION IN MICHIGAN: FIELD TRIALS AND SIMULATION APPROACHES   |
| 395 | \$20,459    | UNIVERSITY OF FLORIDA                       | Freymueller, Jeffrey            | EARTH AND ENVIRONMENTAL SCIENCES    | QUANTIFYING ARCTIC MASS WASTING USING ARCTICDEM   |
| 396 | \$45,105    | TEXAS STATE UNIVERSITY                      | Kendall, Anthony                | EARTH AND ENVIRONMENTAL SCIENCES    | INTEGRATING SYSTEMS MODELS AND REMOTE SENSING TO EXPLORE AQUATIC ECOSYSTEM VULNERABILITY TO GLOBAL CHANGE IN LAKE HURON                                       |
| 397 | \$98,923    | UNIVERSITY OF NEVADA LAS VEGAS              | Schrenk, Matthew                | EARTH AND ENVIRONMENTAL SCIENCES    | UNDER PRESSURE: DO CELL-CELL INTERACTIONS AND COOPERATIVE BEHAVIOR IMPACT THE LIMITS AND SIGNATURES OF MICROBIAL ACTIVITY UNDER OCEAN WORLD ANALOG CONDITIONS |
| 398 | \$203,928   | ANIMAL & PLANT HEALTH INSPECTION SERVICE    | Cognato, Anthony                | ENTOMOLOGY NATURAL SCIENCE          | YEAR 2: REVISION OF EUWALLACEA SPECIES LIMITS FOR IMPROVED DIAGNOSTICS OF POTENTIAL INVASIVE SPECIES.   |
| 399 | \$987,872   | NATIONAL SCIENCE FOUNDATION                 | White, Peter                    | ENTOMOLOGY NATURAL SCIENCE          | MOTHEd - AUTHENTIC SCIENCE FOR ELEMENTARY AND MIDDLE SCHOOL STUDENTS  |
| 400 | \$285,666   | AIR FORCE OFFICE OF SCIENTIFIC RESEARCH     | Reimers, Mark                   | INSTITUTE FOR QUANTITATIVE HEALTH   | HIGH RESOLUTION IMAGING OF CORTICAL ACTIVITY DURING MEMORY FORMATION AND RECALL   |
| 401 | \$381,100   | NATIONAL INST OF GENERAL MEDICAL SCIENCES   | Heath-Heckman, Elizabeth        | INTEGRATIVE BIOLOGY                 | ELUCIDATING MOLECULAR MECHANISMS UNDERLYING COOPERATION IN ANIMAL-BACTERIAL SYMBIOSES   |

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| 402 | \$206,248   | UNIVERSITY OF ALABAMA AT BIRMINGHAM         | Bronikowski, Anne               | KELLOGG BIOLOGICAL STATION NAT SCI  | BILL: IISAGE - DISCOVERING THE MECHANISMS AND EVOLUTION OF AGING DIFFERENCES BETWEEN FEMALES AND MALES |
| 403 | \$39,849    | UNIVERSITY OF MICHIGAN                      | Litchman, Elena                 | KELLOGG BIOLOGICAL STATION NAT SCI  | DOLICHOSPERMUM IN THE GREAT LAKES: A COMPARISON OF TRAIT AND GENETIC DIVERSITY ACROSS LAKES            |
| 404 | \$20,000    | LAWRENCE LIVERMORE NATIONAL LABORATORY      | Robertson, Phil                 | KELLOGG BIOLOGICAL STATION NAT SCI  | NATIONAL GETTING TO NEUTRAL CARBON: BIOENERGY PRODUCTION AND SOIL CARBON                               |
| 405 | \$489,613   | USDA-NATURAL RESOURCES CONSERVATION SERVICE | Sprunger, Christine             | KELLOGG BIOLOGICAL STATION NAT SCI  | SOIL HEALTH ASSAYS   |
| 406 | \$7,200     | SIMONS FOUNDATION                           | Feng, Hongsong                  | MATHEMATICS                         | TOPOLOGICAL LAPLACIAN-ASSISTED MACHINE LEARNING STUDIES  |
| 407 | \$50,695    | WAYNE STATE UNIV                            | Gerhardt, Teena                 | MATHEMATICS                         | ECHT: ELECTRONIC COMPUTATIONAL HOMOTOPY THEORY RESEARCH COMMUNITY                                      |
| 408 | \$85,673    | NATIONAL SCIENCE FOUNDATION                 | Gerhardt, Teena                 | MATHEMATICS                         | ALGEBRAIC K-THEORY, TOPOLOGICAL HOCHSCHILD HOMOLOGY, AND EQUIVARIANT HOMOTOPY THEORY                   |
| 409 | \$72,418    | NATIONAL SCIENCE FOUNDATION                 | Kachkovskiy, Ilya               | MATHEMATICS                         | CAREER: QUANTUM SYSTEMS WITH DETERMINISTIC DISORDER  |
| 410 | \$116,486   | SIMONS FOUNDATION                           | Levin, Aaron                    | MATHEMATICS                         | DIOPHANTINE APPROXIMATION AND ITS APPLICATIONS   |
| 411 | \$180,000   | NATIONAL SCIENCE FOUNDATION                 | Levin, Aaron                    | MATHEMATICS                         | DIOPHANTINE APPROXIMATION TO CLOSED SUBSCHEMES AND INTEGRAL POINTS ON VARIETIES                        |
| 412 | \$42,000    | SIMONS FOUNDATION                           | Schwab, Russell                 | MATHEMATICS                         | HAMILTON-JACOBI-BELLMAN METHODS FOR FREE BOUNDARIES  |
| 413 | \$378,505   | NATIONAL INST OF HEALTH                     | Wei, Guowei                     | MATHEMATICS                         | DISCOVERY-DRIVEN MATHEMATICS AND ARTIFICIAL INTELLIGENCE FOR BIOSCIENCES AND DRUG DISCOVERY            |
| 414 | \$42,000    | SIMONS FOUNDATION                           | Zeidan, Vera                    | MATHEMATICS                         | CONTINUOUS-TIME APPROXIMATION FOR CONTROLLED SWEEPING PROCESSES  |
| 415 | \$154,635   | TARN BIOSCIENCES                            | Abramovitch, Robert             | MICROBIOLOGY MOLECULAR GENETICS CNS | OPTIMIZING INHALED DELIVERY OF ANTIMYCOBACTERIAL MMPL3 INHIBITORS                                      |
| 416 | \$345,073   | NATIONAL INST OF HEALTH                     | Hausinger, Robert               | MICROBIOLOGY MOLECULAR GENETICS CNS | NICKEL-PINCER NUCLEOTIDE ENZYMES   |
| 417 | \$1,500,000 | US AGENCY FOR INTL DEVELOPMENT              | Xi, Zhiyong                     | MICROBIOLOGY MOLECULAR GENETICS CNS | POSITIONING FOR SCALE OF COMBINED IIT/SIT TO CONTROL AEDES-BORNE VIRAL DISEASES                        |

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| 418 | \$50,000  | CAPGEMINI AMERICA INC                             | Xi, Zhiyong                     | MICROBIOLOGY<br>MOLECULAR GENETICS<br>CNS | MOSQUITO MASS REARING   |
| 419 | \$17,427  | SPACE TELESCOPE<br>SCIENCE INST                   | Chomiuk, Laura                  | PHYSICS ASTRONOMY                         | COMBINING OBSERVATIONS WITH SIMULATIONS TO DECIPHER SHOCKS IN NOVAE   |
| 420 | \$66,904  | SPACE TELESCOPE<br>SCIENCE INST                   | Chomiuk, Laura                  | PHYSICS ASTRONOMY                         | COMBINING OBSERVATIONS WITH SIMULATIONS TO DECIPHER SHOCKS IN NOVAE   |
| 421 | \$92,449  | NATIONAL AERONAUTICS<br>& SPACE<br>ADMINISTRATION | Chomiuk, Laura                  | PHYSICS ASTRONOMY                         | UNDERSTANDING THE GAMMA-RAY PRODUCTION MECHANISM IN NOVA SHOCKS   |
| 422 | \$641,052 | UNIVERSITY OF<br>WISCONSIN MADISON                | DeYoung, Tyce                   | PHYSICS ASTRONOMY                         | ICECUBE DATA ANALYSIS IN THE U.S. 2022-2025   |
| 423 | \$125,362 | UNIVERSITY OF<br>WISCONSIN MADISON                | DeYoung, Tyce                   | PHYSICS ASTRONOMY                         | ICECUBE GEN@ PHASE: AN ICECUBE EXTENSION FOR PREVISION NEUTRINO PHYSICS AND ASTROPHYSICS - CONTRUCTION UPGRADE      |
| 424 | \$214,178 | NATIONAL AERONAUTICS<br>& SPACE<br>ADMINISTRATION | Donahue, Megan                  | PHYSICS ASTRONOMY                         | BARYONIC AND WEAK LENSING PROPERTIES OF A VOLUME-LIMITED SAMPLE OF CLUSTERS OF GALAXIES                             |
| 425 | \$52,771  | NATIONAL AERONAUTICS<br>& SPACE<br>ADMINISTRATION | Donahue, Megan                  | PHYSICS ASTRONOMY                         | OBSERVATIONS OF THE JWST/GTO MERGING CLUSTER PLCK G165.7+67.0   |
| 426 | \$204,222 | COLUMBIA UNIV                                     | Fisher, Wade                    | PHYSICS ASTRONOMY                         | LHC HIGH LUMINOSITY WBS 6.08.03.01 TRIGGER FRAMEWORK - MREFC - MSU  |
| 427 | \$106,613 | STONY BROOK<br>UNIVERSITY                         | Fisher, Wade                    | PHYSICS ASTRONOMY                         | U.S. ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER   |
| 428 | \$139,696 | UNIVERSITY OF<br>MICHIGAN                         | Hayden, Daniel                  | PHYSICS ASTRONOMY                         | U.S. ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER   |
| 429 | \$113,736 | COLUMBIA UNIV                                     | Hayden, Daniel                  | PHYSICS ASTRONOMY                         | MREFC: US ATLAS HL-LHC UPGRADE PROJECT  |
| 430 | \$251,978 | NATIONAL SCIENCE<br>FOUNDATION                    | Henderson, Rachel               | PHYSICS ASTRONOMY                         | CONSTRUCTING VALID, EQUITABLE, AND FLEXIBLE KINEMATICS AND DYNAMICS ASSESSMENT SCALES WITH EVIDENCE-CENTERED DESIGN |
| 431 | \$840,000 | NATIONAL SCIENCE<br>FOUNDATION                    | Huston, Joey                    | PHYSICS ASTRONOMY                         | INVESTIGATIONS IN PROTON-PROTON COLLISIONS AT THE LARGE HADRON COLLIDER   |
| 432 | \$72,000  | US DEPT OF ENERGY                                 | Lin, Huey-Wen                   | PHYSICS ASTRONOMY                         | EXCLAIM - EXCLUSIVES VIA ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   |
| 433 | \$55,763  | COLORADO SCHOOL OF<br>MINES                       | Maghrebi, Mohammad              | PHYSICS ASTRONOMY                         | NON-EQUILIBRIUM STEADY STATES AND DYNAMICS IN A TRAPPED-ION QUANTUM SIMULATOR WITH ENGINEERED DISSIPATION           |
| 434 | \$376,689 | NATIONAL INST OF<br>HEALTH                        | Piermarocchi, Carlo             | PHYSICS ASTRONOMY                         | NETWORK MODELS OF DIFFERENTIATION LANDSCAPES FOR ANGIOGENESIS AND HEMATOPOIESIS                                     |

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|     | Amount    | Sponsor                                     | Principal Investigator/Director | Unit                       | Project Title   |
|-----|-----------|---|---------------------------------|----------------------------|---|
| 435 | \$246,539 | GREAT LAKES CRYSTAL TECHNOLOGIES INC        | Pollanen, Johannes              | PHYSICS ASTRONOMY          | PHASE 2: DESIGN OF COLOR CENTERS FOR SPIN QUBIT DEVICES   |
| 436 | \$50,000  | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Rodriguez, Joey                 | PHYSICS ASTRONOMY          | UNDERSTANDING THE EVOLUTIONARY MECHANISMS OF BROWN DWARFS   |
| 437 | \$209,728 | COLUMBIA UNIV                               | Schwienhorst, Reinhard          | PHYSICS ASTRONOMY          | LHC HIGH LUMINOSITY UPGRADE (HL-LHC) WBS 6.06.01.02 MUON SMDT - MREFC - MSU   |
| 438 | \$137,171 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Strader, Jay                    | PHYSICS ASTRONOMY          | COMPACT BINARIES IN GALACTIC GLOBULAR CLUSTERS  |
| 439 | \$66,616  | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Strader, Jay                    | PHYSICS ASTRONOMY          | REVEALING NEW FERMI MILLISECOND PULSAR BINARIES WITH OPTICAL SPECTROSCOPY   |
| 440 | \$52,854  | MICHIGAN TECHNOLOGICAL UNIVERSITY           | Tollefson, Kirsten              | PHYSICS ASTRONOMY          | WOU-MMA: RESEARCH & DEVELOPMENT FOR THE SOUTHERN WIDE-FIELD GAMMA-RAY OBSERVATORY (SWG0)                                      |
| 441 | \$314,999 | NATIONAL SCIENCE FOUNDATION                 | Yuan, Chien-Peng                | PHYSICS ASTRONOMY          | GLOBAL QCD ANALYSIS AND PRECISION ELECTROWEAK PHYSICS IN HIGH ENERGY COLLIDER PHENOMENOLOGY                                   |
| 442 | \$29,980  | CHANDRA SCIENCE CENTER                      | Zepf, Stephen                   | PHYSICS ASTRONOMY          | THE LMXB POPULATION OF NGC 3998: TESTING FOR AN EXTREME IMF   |
| 443 | \$23,439  | CHANDRA SCIENCE CENTER                      | Zepf, Stephen                   | PHYSICS ASTRONOMY          | CHARACTERIZING THE NATURE OF GLOBULAR CLUSTER ULX SOURCES IN NGC 1399   |
| 444 | \$63,294  | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Zhang, Shuo                     | PHYSICS ASTRONOMY          | CAPTURING PEAK X-RAY LUMINOSITY OF GALACTIC CENTER MOLECULAR CLOUD THE BRIDGE: STORYTELLER OF A SGR A* OUTBURST 400 YEARS AGO |
| 445 | \$20,000  | JET PROPULSION LABORATORY                   | Zhang, Shuo                     | PHYSICS ASTRONOMY          | CAPTURING PEAK X-RAY LUMINOSITY OF GALACTIC CENTER MOLECULAR CLOUD "BRIDGE"   |
| 446 | \$61,250  | UNIVERSITY OF NEBRASKA KEARNEY              | Bazil, Jason                    | PHYSIOLOGY NATURAL SCIENCE | PYRUVATE DEHYDROGENASE COMPLEX ACTIVATION AS A STRATEGY TO AMELIORATE METABOLIC DISEASE                                       |
| 447 | \$47,694  | NATIONAL INST OF HEALTH                     | Broeker, Carson                 | PHYSIOLOGY NATURAL SCIENCE | CONSERVED COAMPLIFICATION EVENT IN HER2+ BREAST CANCER INCREASES METASTASIS   |
| 448 | \$84,931  | UNIVERSITY OF ALABAMA AT BIRMINGHAM         | Busik, Julia                    | PHYSIOLOGY NATURAL SCIENCE | HEMATOPOIETIC CELL MOBILIZATION FROM DISTINCT BONE MARROW COMPARTMENTS FOLLOWING RETINAL INJURY                               |
| 449 | \$12,500  | OHIO STATE UNIV                             | Gulbransen, Brian               | PHYSIOLOGY NATURAL SCIENCE | ENTERIC GLIAL ETBR SIGNALING IN POSTOPERATIVE ILEUS   |

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|  | Amount      | Sponsor  | Principal Investigator/Director | Unit                                  | Project Title   |
|--|-------------|--|---------------------------------|---------------------------------------|---|
| 450                                    | \$40,000    | UNIVERSITY OF MICHIGAN                                   | Laumet, Geoffroy                | PHYSIOLOGY NATURAL SCIENCE            | MICHIGAN DIABETES RESEARCH CENTER (MDRC) (P30DK020572 - YRS 46-50)  |
| 451                                    | \$609,414   | NATIONAL INST OF HEALTH                                  | Robison, Alfred                 | PHYSIOLOGY NATURAL SCIENCE            | PROJECTION-SPECIFIC GENE EXPRESSION IN RESILIENCE TO CHRONIC STRESS   |
| 452                                    | \$438,890   | NATIONAL INST OF HEALTH                                  | Wang, Hongbing                  | PHYSIOLOGY NATURAL SCIENCE            | MECHANISM UNDERLYING COGNITIVE AND SYNAPTIC FLEXIBILITY   |
| 453                                    | \$370,824   | NATIONAL SCIENCE FOUNDATION                              | Farre Prokosch, Eva             | PLANT BIOLOGY CNS                     | COLLABORATIVE RESEARCH: AUREOCHROMES-LIGHT SIGNALING IN THE SEA   |
| 454                                    | \$341,318   | UNIVERSITY OF TEXAS AT AUSTIN                            | Lowry, David                    | PLANT BIOLOGY CNS                     | TESTING PREDICTIONS OF PLANT-MICROBE-ENVIRONMENT INTERACTIONS TO OPTIMIZE CLIMATE ADAPTATION AND IMPROVE SUSTAINABILITY IN SWITCHGRASS FEEDSTOCKS |
| 455                                    | \$179,943   | USDA FOREST SERVICE                                      | Sullivan, Lauren                | PLANT BIOLOGY CNS                     | EVALUATING PRAIRIE RESTORATION WITH ACTIVE BISON GRAZING ON MIDEWIN NATIONAL TALLGRASS PRAIRIE  |
| 456                                    | \$233,366   | YALE UNIV  | Trail, Frances                  | PLANT BIOLOGY CNS                     | EVOLUTIONARY MULTISPECIES TRANSCRIPTOMICS TO REVEAL GENES THAT GOVERN FUNGAL SPORE GERMINATION AND PATHOGENESIS                                   |
| 457                                    | \$1,200,000 | AUBURN UNIV  | Kim, Yongsig                    | PLANT RESEARCH LABORATORY NAT SCIENCE | REIMAGINING CONTROLLED ENVIRONMENT AGRICULTURE IN A LOW CARBON WORLD  |
| 458                                    | \$14,267    | HENRY FORD HEALTH SYSTEM                                 | Cui, Yuehua                     | STATISTICS PROBABILITY                | STATISTICAL ANALYSIS OF SPATIAL TRANSCRIPTOMICS DATA  |
| 459                                    | \$16,829    | OHIO UNIV  | Viens, Frederi                  | STATISTICS PROBABILITY                | FRAMEWORKS: BAYESIAN ANALYSIS FOR NUCLEI IN DIVERSE THEORIES  |
| <b>COLLEGE OF NURSING</b>              |             |  |                                 |                                       |   |
| 460                                    | \$230,087   | NATIONAL INST OF NURSING RESEARCH                        | Chen, Angela Chia-Chen          | NURSING                               | PILOT TESTING OF A GAME-BASED INTERVENTION TO PROMOTE HPV VACCINATION IN FAMILIES WITH UNVACCINATED CHILDREN                                      |
| 461                                    | \$409,410   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES                 | Goldstein, Dawn                 | NURSING                               | PSYCHIATRIC MENTAL HEALTH NURSE PRACTITIONER RECRUITMENT & RETENTION  |
| 462                                    | \$789,635   | NATIONAL CENTER FOR COMPLEMENTARY AND INTEGRATIVE HEALTH | Ling, Jiying                    | NURSING                               | FOOD-BODY-MIND INTERVENTION: PROMOTE WHOLE CHILD HEALTH   |
| 463                                    | \$5,505     | HEALTH RESOURCES & SERVICES ADMINISTRATION               | Lourens, Gayle                  | NURSING                               | IMPROVING ACCESS TO QUALITY ANESTHESIA CARE THROUGH TRAINEESHIP SUPPORT   |
| 464                                    | \$723,309   | NATIONAL HEART LUNG & BLOOD INST                         | Robbins, Lorraine               | NURSING                               | GUYS/GIRLS OPT FOR ACTIVITIES FOR LIFE (GOAL) TRIAL   |
| <b>COLLEGE OF OSTEOPATHIC MEDICINE</b> |             |  |                                 |                                       |   |

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|-----|-------------|--|---------------------------------|--|--|
| 465 | \$93,155    | INDOOR BIOTECHNOLOGIES, INC              | Chruszcz, Maksymilian           | BIOCHEMISTRY AND MOLECULAR BIOLOGY COM | ANTIGENIC DETERMINANTS OF ASTHMA-ASSOCIATED ALLERGENS FOR DESIGN OF IMMUNOTHERAPY  |
| 466 | \$113,441   | MASSACHUSETTS GENERAL HOSPITAL           | Martinez Hackert, Erik          | BIOCHEMISTRY AND MOLECULAR BIOLOGY COM | CONTEXT-SPECIFIC ANGIOGENIC SIGNALING IN THE PULMONARY VASCULATURE   |
| 467 | \$1,400,000 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Luz, Clare                      | FAMILY AND COMMUNITY MEDICINE          | DCW TRAINING PILOT PROJECT   |
| 468 | \$118,276   | US DEPT OF STATE                         | Ghimire, Ramjee                 | INSTITUTE FOR GLOBAL HEALTH            | MEKONG ONE HEALTH INNOVATION PROGRAM (MOHIP)   |
| 469 | \$9,000     | XENON PHARMACEUTICALS INC                | Burghardt, Tyson                | NEUROLOGY AND OPHTHALMOLOGY COM        | A MULTICENTER, OPEN-LABEL, LONG-TERM, SAFETY, TOLERABILITY, AND EFFICACY STUDY OF XEN1101 IN ADULTS DIAGNOSED WITH EPILEPSY  |
| 470 | \$9,000     | XENON PHARMACEUTICALS INC                | Burghardt, Tyson                | NEUROLOGY AND OPHTHALMOLOGY COM        | A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, MULTICENTER, PHASE 3 STUDY TO EVALUATE THE SAFETY, TOLERABILITY, AND EFFICACY OF XEN1101 AS ADJUNCTIVE THERAPY IN PRIMARY GENERALIZED                  |
| 471 | \$15,058    | CEREVEL THERAPEUTICS LLC                 | Goudreau, John                  | NEUROLOGY AND OPHTHALMOLOGY COM        | 58-WEEK OPEN-LABEL TRIAL OF TAVAPADON IN PARKINSON'S DISEASE (TEMPO-4 TRIAL)   |
| 472 | \$8,500     | SAGE THERAPEUTICS INC                    | Goudreau, John                  | NEUROLOGY AND OPHTHALMOLOGY COM        | SAGE-324-ETD-202   |
| 473 | \$8,000     | INHIBIKASE THERAPEUTICS                  | Goudreau, John                  | NEUROLOGY AND OPHTHALMOLOGY COM        | A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED TRIAL OF IKT-148009 IN UNTREATED PARKINSON'S DISEASE  |
| 474 | \$8,190     | BUKWANG PHARMACEUTICAL CO LTD            | Goudreau, John                  | NEUROLOGY AND OPHTHALMOLOGY COM        | A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, TWO-PART STUDY IN PARKINSON'S DISEASE PATIENTS WITH DYSKINESIA TO ASSESS THE EFFICACY AND SAFETY/TOLERABILITY OF FIXED DOSE COMBINATIONS OF JM-010 AND |
| 475 | \$9,015     | IMMUNOVANT SCIENCES GMBH                 | Sachdev, Amit                   | NEUROLOGY AND OPHTHALMOLOGY COM        | A PHASE 3, MULTI-CENTER, RANDOMIZED, QUADRUPLE-BLIND, PLACEBO-CONTROLLED STUDY TO ASSESS THE EFFICACY AND SAFETY OF BATOCLIMAB AS INDUCTION AND MAINTENANCE THERAPY IN ADULT PARTICIPANTS WITH         |
| 476 | \$25,000    | MUSCULAR DYSTROPHY ASSOC INC             | Sachdev, Amit                   | NEUROLOGY AND OPHTHALMOLOGY COM        | MSU DEPARTMENT OF NEUROLOGY MDA CARE CENTER  |
| 477 | \$9,445     | RA PHARMACEUTICALS INC                   | Sachdev, Amit                   | NEUROLOGY AND OPHTHALMOLOGY COM        | A PHASE 3, MULTICENTER, OPEN-LABEL EXTENSION STUDY OF ZILUCOPLAN IN SUBJECTS WITH GENERALIZED MYASTHENIA GRAVIS  |

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|----------------------------------|-----------|--|---------------------------------|-------------------------------------|---|
| 478                              | \$14,156  | ALEXION PHARMACEUTICALS INC  | Sachdev, Amit                   | NEUROLOGY AND OPHTHALMOLOGY COM     | A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL, MULTICENTER STUDY TO EVALUATE THE SAFETY AND EFFICACY OF ALXN1720 IN ADULTS WITH GENERALIZED MYASTHENIA GRAVIS |
| 479                              | \$40,262  | INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS                  | Taylor, Terrie                  | OSTEOPATHIC MEDICAL SPECIALTIES COM | GUT MICROBIOTA AND HUMAN MALARIA  |
| 480                              | \$20,000  | HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES | Ellsworth, Edmund               | PHARMACOLOGY TOXICOLOGY             | SYNTHESIS AND RADIATION RADIOPROTECTION STUDIES OF UTS-1401 ANALOGS   |
| 481                              | \$156,991 | NATIONAL INST OF HEALTH  | Tewari-Singh, Neera             | PHARMACOLOGY TOXICOLOGY             | TREATMENT STRATEGIES FOR OCULAR TOXICITY FROM CHLOROPICRIN  |
| 482                              | \$18,609  | UNIVERSITY OF MICHIGAN   | Watts, Stephanie                | PHARMACOLOGY TOXICOLOGY             | UNIVERSITY OF MICHIGAN KIDNEY, UROLOGY AND HEMATOLOGY RESEARCH TRAINING NETWORK   |
| 483                              | \$69,844  | NATIONAL INST OF HEALTH  | Ezeamama, Amara                 | PSYCHIATRY OSTEOPATHIC MEDICINE     | ESSENTIAL FATTY ACID DEFICIENCY AS A MODIFIABLE DETERMINANT OF COGNITIVE DYSFUNCTION AMONG 6-18-YEAR-OLD UGANDAN CHILDREN OF VARYING PERINATAL HIV STATUS                         |
| 484                              | \$649,051 | NATIONAL INST OF HEALTH  | Ezeamama, Amara                 | PSYCHIATRY OSTEOPATHIC MEDICINE     | IDENTIFYING ADOLESCENTS AT HIGH RISK OF NEUROCOGNITIVE DISORDER: DEVELOPMENT AND VALIDATION OF A COMPOSITE RISK INDEX   |
| 485                              | \$226,474 | NATIONAL INST OF HEALTH  | Ezeamama, Amara                 | PSYCHIATRY OSTEOPATHIC MEDICINE     | GUT PERMEABILITY AND VARIATIONS IN BIO-AVAILABLE VITAMIN D AS MECHANISMS OF ADVERSE COGNITIVE DEVELOPMENT IN HIV-AFFECTED & CONTROLS CHILDREN - A NESTED PILOT STUDY              |
| 486                              | \$7,687   | UNIVERSITY OF ROCHESTER  | Delano, Mark                    | RADIOLOGY OSTEOPATHIC MEDICINE      | GLOBAL RESEARCH ENDEAVORS TO ADVANCE TREATMENT/PREVENTION OF NEUROLOGICAL DISORDERS IN AFRICA (GREAT NEUROLOGY IN AFRICA)   |
| <b>COLLEGE OF SOCIAL SCIENCE</b> |           |  |                                 |                                     |   |
| 487                              | \$64,933  | UNIVERSITY OF KENTUCKY   | Hefner, Joseph                  | ANTHROPOLOGY SOCIAL SCIENCE         | DEVELOPING STANDARDIZED GRAPHIC LIBRARIES FOR ANATOMY: A FOCUS ON HUMAN CRANIOFACIAL ANATOMY AND PHENOTYPES   |
| 488                              | \$102,339 | GEORGE MASON UNIV  | McGarrell, Edmund               | CRIMINAL JUSTICE                    | JCOIN COORDINATION AND TRANSLATION CENTER - COMMUNITY STAKEHOLDER   |
| 489                              | \$74,093  | JUSTICE RESEARCH & STATISTICS ASSOC                                | Rojek, Jeffrey                  | CRIMINAL JUSTICE                    | BUREAU OF JUSTICE ASSISTANCE (BJA) FY 21 SMART SUITE TRAINING AND TECHNICAL ASSISTANCE  |
| 490                              | \$224,997 | OFFICE OF JUSTICE PROGRAMS   | Wolfe, Scott                    | CRIMINAL JUSTICE                    | CORE CAPACITY AND SPECIAL EMPHASIS SAC PROPOSAL: MICHIGAN STATISTICAL ANALYSIS CENTER 2023  |
| 491                              | \$49,595  | UNIVERSITY OF CHICAGO  | Barnwal, Prabhat                | ECONOMICS                           | PEER EFFECTS AND INFORMATION SILOS IN THE BUREAUCRACY   |



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|-----|-----------|---|---------------------------------|--|---|
| 492 | \$63,395  | STANFORD UNIV                               | Lee, Ajin                       | ECONOMICS                                | “RACIAL BIAS IN RISK-ADJUSTMENT ALGORITHMS AND IMPLICATIONS FOR RACIAL HEALTH DISPARITIES: EVIDENCE FROM DUAL-ELIGIBLE MEDICARE/MEDICAID LONG-TERM CARE PATIENTS IN NEW YORK” |
| 493 | \$69,664  | UNIVERSITY OF MICHIGAN                      | Andresen, Jeffrey               | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES   | GREAT LAKES INTEGRATED SCIENCE AND ASSESSMENTS (GLISA)  |
| 494 | \$89,537  | SYNOPTIC DATA CORP                          | Andresen, Jeffrey               | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES   | NATIONAL MESONET PROGRAM FOR MSU ENVIROWEATHER EFFORT   |
| 495 | \$17,656  | WAYNE STATE UNIV                            | Bunting, Erin                   | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES   | CENTER FOR LEADERSHIP IN ENVIRONMENTAL AWARENESS AND RESEARCH (CLEAR)   |
| 496 | \$120,892 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES    | Pearson, Amber                  | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES   | HEALTH POLICY ANALYSIS AND MAPPING  |
| 497 | \$10,000  | USDA FOREST SERVICE                         | Zhong, Shiyuan                  | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES   | TOWARDS AN IMPROVED UNDERSTANDING OF THE RELATIONSHIP OF SMOKE DISPERSION FROM PRESCRIBED FIRES TO CANOPY STRUCTURE AND ATMOSPHERIC CONDITIONS                                |
| 498 | \$88,000  | USDA FOREST SERVICE                         | Zhong, Shiyuan                  | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES   | MODELING AND MONITORING SUPPORT FOR STUDIES OF SMOKE DISPERSION FROM WILDLAND FIRES   |
| 499 | \$439,922 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Fan, Peilei                     | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | DECODING LAND TRANSITIONS ACROSS THE URBAN-RURAL CONTINUUMS (URC): A SYNTHESIS STUDY OF PATTERNS, DRIVERS, AND SOCIOENVIRONMENTAL IMPACTS IN SOUTHEAST ASIA                   |
| 500 | \$46,782  | COLORADO STATE UNIV                         | Henebry, Geoffrey               | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | UNDERSTANDING URBAN CENTERS AS ECOLOGICAL TRAPS FOR AVIAN MIGRANTS  |
| 501 | \$49,938  | NATIONAL SCIENCE FOUNDATION                 | Moran, Emilio                   | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | GCR: CONVERGENCE FOR INNOVATIVE ENERGY SOLUTIONS: EMPOWERING OFF-GRID COMMUNITIES WITH SUSTAINABLE ENERGY TECHNOLOGIES  |
| 502 | \$43,206  | KBR   | Roy, David                      | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | LAND SATELLITES DATA SYSTEM (LSDS) EROS CAL/VAL CENTER OF EXCELLENCE (ECCOE)  |
| 503 | \$56,543  | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Roy, David                      | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | WHERE ARE THE MISSING BURNED AREAS? GLOBAL HOTSPOTS OF BURNED AREA - A MULTIREOLUTION ANALYSIS  |
| 504 | \$176,355 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Roy, David                      | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | MACHINE LEARNING PLANET HIGH RESOLUTION TRAINING DATA FOR MEDIUM RESOLUTION LAND COVER AND DISTURBANCE MAPPING  |

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|-----|-------------|---|---------------------------------|--|--|
| 505 | \$449,287   | US DEPT OF EDUCATION                        | Douglas, Sarah                  | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | THE DEVELOPMENT AND TESTING OF A PROFESSIONAL DEVELOPMENT AND TELEPRACTICE INTERVENTION TO SUPPORT FAMILY MEMBER USE OF AUGMENTATIVE AND ALTERNATIVE COMMUNICATION |
| 506 | \$2,187,500 | ADMINISTRATION FOR CHILDREN & FAMILIES      | Linscott, Laurie                | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | MICHIGAN STATE UNIVERSITY CHILD DEVELOPMENT LABORATORIES COMMUNITY EXPANSION   |
| 507 | \$90,920    | INGHAM INTERMEDIATE SCHOOL DISTRICT         | Linscott, Laurie                | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | 2023-2024 INGHAM GREAT START READINESS PROGRAM   |
| 508 | \$24,994    | ADMINISTRATION FOR CHILDREN & FAMILIES      | Vallotton, Claire               | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | ADMINISTRATIVE SUPPORT AND WELL-BEING OF INFANT, TODDLER, AND PRESCHOOL EDUCATORS  |
| 509 | \$120,000   | NORTH AMERICAS BUILDING TRADES UNIONS       | Brockman, Julie                 | HUMAN RESOURCES AND LABOR RELATIONS      | INCREASING AND DIVERSIFYING REGISTERED APPRENTICESHIPS IN THE CONSTRUCTION INDUSTRY  |
| 510 | \$164,676   | JOHNS HOPKINS UNIV                          | Grossmann, Matthew              | INST FOR PUBLIC POLICY SOCIAL RESEARCH   | A COMPARISON OF FIREARM-RELATED INTIMATE PARTNER HOMICIDE IN TEXAS AND MARYLAND  |
| 511 | \$200,000   | JOYCE FOUNDATION                            | Grossmann, Matthew              | INST FOR PUBLIC POLICY SOCIAL RESEARCH   | ANALYZING AND IMPROVING RACIAL REPRESENTATION IN MICHIGAN AFTER REDISTRICTING REFORM   |
| 512 | \$349,803   | NATIONAL ENDOWMENT FOR THE HUMANITIES       | Hawthorne III, Walter           | MATRIX HUM ARTS LETTERS SOC SCI ONLINE   | EXPANDING AND SUSTAINING 'ENSLAVED.ORG: PEOPLES OF THE HISTORICAL SLAVE TRADE'   |
| 513 | \$11,795    | FOUNDATION HIRONDELLE                       | Conroy-Krutz, Jeffrey           | POLITICAL SCIENCE                        | EVALUATION OF RADIO NDEKE LUKA—PHASE II  |
| 514 | \$35,000    | US NAVAL ACADEMY                            | Sebell, Dustin                  | POLITICAL SCIENCE                        | RESIDENT ETHICS FELLOW IN THE STOCKDALE CENTER FOR ETHICAL LEADERSHIP  |
| 515 | \$7,127     | AVILA UNIVERSITY                            | Brandt, Mark                    | PSYCHOLOGY SOCIAL SCIENCE                | MENTORING RESEARCH PROJECTS THROUGH REPLICATION WITH THE COLLABORATIVE REPLICATION AND EDUCATION PROJECT   |
| 516 | \$75,000    | RICE UNIV                                   | Carter, Dorothy                 | PSYCHOLOGY SOCIAL SCIENCE                | NEXT GENERATION TEAMS AND ORGANIZATIONAL SUBSYSTEMS RESEARCH.  |
| 517 | \$52,000    | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Carter, Dorothy                 | PSYCHOLOGY SOCIAL SCIENCE                | NASA RESEARCH AND TECHNOLOGY DEVELOPMENT TO SUPPORT CREW HEALTH AND PERFORMANCE IN SPACE EXPLORATION MISSIONS  |
| 518 | \$20,000    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES    | Gregory, Katie                  | PSYCHOLOGY SOCIAL SCIENCE                | HUMAN TRAFFICKING PROJECT - FY24   |
| 519 | \$400,000   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES    | Gregory, Katie                  | PSYCHOLOGY SOCIAL SCIENCE                | CRIME VICTIM ADMINISTRATIVE FEDERAL ASSISTANCE.  |

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|--|-------------|--|---------------------------------|---|--|
| 520                                      | \$213,506   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Gregory, Katie                  | PSYCHOLOGY SOCIAL SCIENCE               | MIVAN CAPACITY BUILDING TRAINING PROJECT   |
| 521                                      | \$49,806    | UNIVERSITY OF MICHIGAN                   | McAuley, J                      | PSYCHOLOGY SOCIAL SCIENCE               | SPONTANEOUS SYNCHRONIZATION TO SPEECH AS A WINDOW INTO AUDITORY MOTOR INTEGRATION IN STUTTERING          |
| 522                                      | \$65,028    | UNIVERSITY OF ILLINOIS CHICAGO           | Neal, Jennifer                  | PSYCHOLOGY SOCIAL SCIENCE               | EMPOWERING LATINAS TO OBTAIN GUIDELINE-CONCORDANT BREAST CANCER SCREENINGS                               |
| 523                                      | \$47,986    | NEW YORK UNIV                            | Ryan, Ann                       | PSYCHOLOGY SOCIAL SCIENCE               | COLLABORATIVE RESEARCH:FW-HTF-RL: TRAPEZE: RESPONSIBLE AI-ASSISTED TALENT ACQUISITION FOR HR SPECIALISTS |
| 524                                      | \$94,225    | UNIVERSITY OF TEXAS AT AUSTIN            | Schwaba, Tedmond                | PSYCHOLOGY SOCIAL SCIENCE               | DISSECTING THE MULTIVARIATE GENETIC ARCHITECTURE OF PSYCHIATRIC DISORDERS                                |
| 525                                      | \$42,960    | NATIONAL INST OF HEALTH                  | Veenema, Alexa                  | PSYCHOLOGY SOCIAL SCIENCE               | SUPPLEMENT FOR OXT NEURAL CIRCUITRY INVOLVEMENT OF JUVENILE SOCIAL PLAY BEHAVIOR                         |
| 526                                      | \$50,000    | FEONIX MOBILITY RISING                   | Kotval-Karamchandani, Zeenat    | SCHOOL OF PLANNING DES CONSTRUCTION CSS | MICHIGAN MOBILITY WALLET - MSU   |
| 527                                      | \$203,817   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Brock, Michele                  | SOCIAL WORK                             | KINSHIP SUPPORT PROGRAM  |
| 528                                      | \$2,100,000 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Brock, Michele                  | SOCIAL WORK                             | KINSHIP SUPPORT PROGRAM  |
| 529                                      | \$53,812    | DEPAUL UNIV                              | Kennedy, Angie                  | SOCIAL WORK                             | SEXUAL ASSAULT SURVIVORS' EXPERIENCES SEEKING CIVIL NO CONTACT ORDERS                                    |
| 530                                      | \$17,052    | MICHIGAN PUBLIC HEALTH INST              | Sun, Fei                        | SOCIAL WORK                             | PROMOTING BRAIN HEALTH AMONG OLDER ADULTS FROM UNDERSERVED POPULATIONS AND COMMUNITIES IN MICHIGAN       |
| 531                                      | \$203,869   | NATIONAL SCIENCE FOUNDATION              | shuster, stef                   | SOCIOLOGY SOCIAL SCIENCE                | CAREER: TRANS EUGENICS: SCIENTIFIC AND MEDICAL CONTROL OVER RE(PRODUCTIVE) BODIES                        |
| <b>OFFICE OF UNDERGRADUATE EDUCATION</b> |             |  |                                 |   |  |
| 532                                      | \$8,580     | CITY OF EAST LANSING                     | Garcia, Luis                    | MIGRANT STUDENT SERVICES                | E.L. COMMUNITY DEVELOPMENT BLOCK GRANT   |
| 533                                      | \$499,721   | NATIONAL SCIENCE FOUNDATION              | Libarkin, Julie                 | UNDERGRADUATE EDUCATION ADMINISTRATION  | TRANSFORMING STEM EDUCATION THROUGH PARTICIPATORY AND COMMUNITY-ENGAGED RESEARCH: AN INCUBATOR PROJECT   |
| <b>COLLEGE OF VETERINARY MEDICINE</b>    |             |  |                                 |   |  |
| 534                                      | \$499,998   | FOREIGN AGRICULTURAL SERVICE             | Kaneene, John                   | LARGE ANIMAL CLINICAL SCIENCES          | USDA-FAS FACULTY EXCHANGE PROGRAM - PHILIPPINE AND VIETNAMESE VETERINARY SCIENCE                         |

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|  | Amount      | Sponsor                                     | Principal Investigator/Director | Unit                                   | Project Title   |
|--|-------------|---|---------------------------------|--|---|
| 535                                    | \$299,466   | FOOD & DRUG ADMINISTRATION                  | Ruegg, Pamela                   | LARGE ANIMAL CLINICAL SCIENCES         | COMBINING BENCHMARKING AND COMPETENCY-BASED TRAINING TO IMPLEMENT ANTIMICROBIAL STEWARDSHIP ON DAIRY FARMS                  |
| 536                                    | \$153,287   | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | Harkema, Jack                   | PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM | GENETIC ANALYSIS OF COVID-19 SUSCEPTIBILITY AND RESISTANCE DETERMINANTS IN THE COLLABORATIVE CROSS                          |
| 537                                    | \$35,620    | COREWELL HEALTH                             | Carey, Stephan                  | SMALL ANIMAL CLINICAL SCIENCES         | MICROSTRUCTURAL/MECHANICAL ANALYSIS OF TRICUSPID VALVES   |
| 538                                    | \$209,106   | ABBVIE INC                                  | Komaromy, Andras                | SMALL ANIMAL CLINICAL SCIENCES         | ABBVIE PHARMACEUTICALS - DURYSTA (BIMATOPROST) IMPLANTS   |
| 539                                    | \$24,030    | WASHINGTON UNIV IN ST LOUIS                 | Olivier, Nicholas               | SMALL ANIMAL CLINICAL SCIENCES         | GESTATIONAL HYPERANDROGENISM IN CARDIOVASCULAR PROGRAMMING  |
| 540                                    | \$146,836   | MORRIS ANIMAL FOUNDATION                    | Yuzbasiyan-Gurkan, Vilma        | SMALL ANIMAL CLINICAL SCIENCES         | PHASE II OPEN-LABEL NON-RANDOMIZED MULTICENTER CLINICAL TRIAL OF TRAMETINIB FOR DOGS WITH HISTIOCYTIC SARCOMA               |
| 541                                    | \$57,868    | FOOD & DRUG ADMINISTRATION                  | Buchweitz, John                 | VETERINARY DIAGNOSTIC LABORATORY       | A MULTI-LABORATORY VALIDATION OF THE EXTRACTION OF FAT-SOLUBLE VITAMINS FROM TISSUE AND FEED AND THEIR ANALYSIS BY LC-MS/MS |
| 542                                    | \$59,400    | FOOD & DRUG ADMINISTRATION                  | Dodd, Kimberly                  | VETERINARY DIAGNOSTIC LABORATORY       | BUILDING AMR MONITORING CAPACITY THROUGH EXPANDING NGS CAPABILITIES   |
| 543                                    | \$1,000,000 | COLORADO STATE UNIV                         | Dodd, Kimberly                  | VETERINARY DIAGNOSTIC LABORATORY       | NAHLN AMERICAN RESCUE PLAN: MICHIGAN STATE UNIVERSITY VETERINARY DIAGNOSTIC LABORATORY                                      |
| 544                                    | \$100,000   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES    | Dodd, Kimberly                  | VETERINARY DIAGNOSTIC LABORATORY       | VECTOR BORNE SURVEILLANCE FOR ARBOVIRAL DISEASE   |
| 545                                    | \$125,013   | STATE OF MICHIGAN                           | Mejia Abreu, Hilda              | VETERINARY MEDICINE DEAN               | DEVELOPING MICHIGAN'S PIPELINE TO VETERINARY MEDICAL EDUCATION  |
| 546                                    | \$40,000    | NATIONAL INST OF HEALTH                     | Sreevatsan, Srinand             | VETERINARY MEDICINE DEAN               | SHORT-TERM BIOMEDICAL RESEARCH TRAINING PROGRAM FOR VETERINARY STUDENTS   |
| 547                                    | \$114,480   | NATIONAL INST OF HEALTH                     | Sreevatsan, Srinand             | VETERINARY MEDICINE DEAN               | SHORT-TERM BIOMEDICAL RESEARCH TRAINING PROGRAM FOR VETERINARY STUDENTS   |
| <b>FACILITY FOR RARE ISOTOPE BEAMS</b> |             |   |                                 |  |   |
| 548                                    | \$1,040,000 | NORTHROP GRUMMAN CORP                       | Abrams, BJ                      | FACILITY FOR RARE ISOTOPE BEAMS        | SINGLE EVENT EFFECT TESTING ON ELECTRONIC COMPONENTS - EXPERIMENT 22928   |
| 549                                    | \$839,000   | NATIONAL SCIENCE FOUNDATION                 | Baumann, Thomas                 | FACILITY FOR RARE ISOTOPE BEAMS        | COLLABORATIVE RESEARCH: EQUIPMENT: MRI CONSORTIUM: TRACK 2 DEVELOPMENT OF A NEXT GENERATION FAST NEUTRON DETECTOR           |

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|-----|--------------|--|---------------------------------|---------------------------------|--|
| 550 | \$101,135    | LOS ALAMOS NATL LABORATORY                   | Bogner, Scott                   | FACILITY FOR RARE ISOTOPE BEAMS | FRIB THEORY FELLOW AT LOS ALAMOS NATIONAL LABORATORY - HLOPHE  |
| 551 | \$250,000    | NATIONAL SCIENCE FOUNDATION                  | Brown, Kyle                     | FACILITY FOR RARE ISOTOPE BEAMS | WOU-MMA: STUDYING NEUTRON STARS THROUGH THE LENS OF NUCLEAR REACTIONS  |
| 552 | \$83,358,000 | US DEPT OF ENERGY                            | Glasmacher, Thomas              | FACILITY FOR RARE ISOTOPE BEAMS | OPERATION OF THE FACILITY FOR RARE ISOTOPE BEAMS AS SCIENTIFIC USER FACILITY   |
| 553 | \$3,000,000  | US DEPT OF ENERGY                            | Glasmacher, Thomas              | FACILITY FOR RARE ISOTOPE BEAMS | HIGH RIGIDITY SPECTROMETER PROJECT   |
| 554 | \$1,400,000  | NATIONAL SCIENCE FOUNDATION                  | Gueye, Paul                     | FACILITY FOR RARE ISOTOPE BEAMS | WINDOWS ON THE UNIVERSE: OPEN QUANTUM SYSTEMS IN ATOMIC NUCLEI AT FRIB   |
| 555 | \$461,000    | US DEPT OF ENERGY                            | Gueye, Paul                     | FACILITY FOR RARE ISOTOPE BEAMS | THE INSTITUTE FOR NUCLEAR SCIENCE TO INSPIRE THE NEXT GENERATION OF A HIGHLY TRAINED WORKFORCE (INSIGHT) AT FRIB           |
| 556 | \$182,354    | BROOKHAVEN SCIENCE ASSOC LLC                 | Hao, Yue                        | FACILITY FOR RARE ISOTOPE BEAMS | JOINT APPOINTMENT AGREEMENT WITH BNL FOR YUE HAO   |
| 557 | \$300,000    | US DEPT OF ENERGY                            | Hao, Yue                        | FACILITY FOR RARE ISOTOPE BEAMS | DEVELOPMENT OF DIFFERENTIABLE BEAM DYNAMICS SIMULATION TOOLS INCLUDING COLLECTIVE EFFECTS FOR HEP ACCELERATOR APPLICATIONS |
| 558 | \$130,000    | US DEPT OF ENERGY                            | Hao, Yue                        | FACILITY FOR RARE ISOTOPE BEAMS | 6-D ANALYSIS OF NONLINEAR DYNAMICS USING SQUARE MATRIX METHOD  |
| 559 | \$210,000    | US DEPT OF ENERGY                            | Hao, Yue                        | FACILITY FOR RARE ISOTOPE BEAMS | ADVANCED MODELING OF BEAM PHYSICS AND PERFORMANCE OPTIMIZATION FOR NUCLEAR PHYSICS COLLIDERS                               |
| 560 | \$150,000    | US DEPT OF ENERGY                            | Hergert, Heiko                  | FACILITY FOR RARE ISOTOPE BEAMS | ADVANCED AB INITIO METHODS FOR THE NUCLEAR MANY-BODY PROBLEM   |
| 561 | \$176,000    | US DEPT OF ENERGY                            | Lee, Dean                       | FACILITY FOR RARE ISOTOPE BEAMS | STREAMLINE COLLABORATION: MACHINE LEARNING FOR NUCLEAR MANY-BODY SYSTEMS   |
| 562 | \$450,000    | UNIVERSITY OF CALIFORNIA BERKELEY            | Liddick, Sean                   | FACILITY FOR RARE ISOTOPE BEAMS | NUCLEAR SCIENCE AND ENGINEERING CONSORTIUM FOR NONPROLIFERATION  |
| 563 | \$32,229     | CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE | Naviliat Cuncic, Oscar          | FACILITY FOR RARE ISOTOPE BEAMS | CNRS - MICHIGAN STATE UNIVERSITY NUCLEAR PHYSICS AND ASTROPHYSICS (IRL NPA)  |
| 564 | \$7,305      | NATIONAL SCIENCE FOUNDATION                  | Schatz, Hendrik                 | FACILITY FOR RARE ISOTOPE BEAMS | ACCELNET-WOU: INTERNATIONAL RESEARCH NETWORK FOR NUCLEAR ASTROPHYSICS (IRENA)  |
| 565 | \$567,000    | US DEPT OF ENERGY                            | Severin, Gregory                | FACILITY FOR RARE ISOTOPE BEAMS | CORE RESEARCH AND DEVELOPMENT SUPPORT FOR ISOTOPE HARVESTING AT FRIB   |
| 566 | \$936,408    | NATIONAL SCIENCE FOUNDATION                  | Spyrou, Artemisia               | FACILITY FOR RARE ISOTOPE BEAMS | WINDOWS ON THE UNIVERSE: NUCLEAR ASTROPHYSICS AT FRIB  |

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|  | <b>Amount</b> | <b>Sponsor</b>                         | <b>Principal Investigator/Director</b> | <b>Unit</b>                             | <b>Project Title</b>  |
|--|---------------|--|--|---|---|
| 567  | \$205,000     | US DEPT OF ENERGY                      | Wrede, Christopher                     | FACILITY FOR RARE ISOTOPE BEAMS         | MACHINE LEARNING FOR TIME PROJECTION CHAMBERS AT FRIB   |
| 568  | \$15,000      | US DEPT OF ENERGY                      | Wrede, Christopher                     | FACILITY FOR RARE ISOTOPE BEAMS         | TWENTIETH EXOTIC BEAM SUMMER SCHOOL (EBSS2023)  |
| 569  | \$495,270     | STANFORD LINEAR ACCELERATOR CENTER     | Xu, Ting                               | FACILITY FOR RARE ISOTOPE BEAMS         | PROPOSAL TO SUPPLY LCLS-II HE SRF GUN   |
| 570  | \$20,000      | FERMI NATIONAL ACCELERATOR LABORATORY  | Xu, Ting                               | FACILITY FOR RARE ISOTOPE BEAMS         | HIGH PRESSURE RINSING (HPR) ONE SSR2 CAVITY FOR PIP-II PROJECT  |
| 571  | \$29,588      | NATIONAL SCIENCE FOUNDATION            | Singh, Jaideep                         | NAT'L SUPERCONDUCTING CYCLOTRON LAB     | CAREER: OPTICAL SINGLE ATOM DETECTION FOR NUCLEAR ASTROPHYSICS  |
| <b>ASC PROV FOR UNIV OUTREACH ENGAGEMENT</b> |               |  |  |   |   |
| 572  | \$186,000     | US ECONOMIC DEVELOPMENT ADMINISTRATION | Lamore, Rex                            | OUTREACH AND ENGAGEMENT PARTNERSHIPS    | MSU EDA UNIVERSITY CENTER FOR REGIONAL ECONOMIC INNOVATION (REI)  |
| 573  | \$530,000     | MICHIGAN DEPT OF EDUCATION             | Wu, Jamie                              | UNIV OUTREACH AND ENGAGEMENT ADMIN      | 2023-2024 EVALUATION OF MICHIGAN 21ST CENTURY COMMUNITY LEARNING CENTERS  |
| 574  | \$299,038     | US DEPT OF EDUCATION                   | Anthony, Stephanie                     | UPWARD BOUND                            | UPWARD BOUND  |
| <b>INTERNATIONAL STUDIES AND PROGRAMS</b>    |               |  |  |   |   |
| 575  | \$320,180     | US DEPT OF EDUCATION                   | Monson, Jamie                          | AFRICAN STUDIES CENTER                  | FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP PROGRAM (FLAS)   |
| 576  | \$59,938      | US DEPT OF EDUCATION                   | Ranjan, Rajiv                          | ASIAN STUDIES CENTER                    | LCTLS OER COLLABORATIVE: ENHANCING LANGUAGE TEACHING THROUGH OER LANGUAGE TEXTBOOK DEVELOPMENT AND PARTNERSHIPS |
| 577  | \$233,147     | INST OF INTL EDUCATION                 | Green, Ashley                          | INTERNATIONAL STUDIES AND PROGRAMS DEAN | H. HUBERT HUMPHREY FELLOWSHIP PROGRAM   |
| 578  | \$553,413     | US DEPT OF STATE                       | Wright, Wynne                          | INTERNATIONAL STUDIES AND PROGRAMS DEAN | FY2023 PROFESSIONAL FELLOWS PROGRAM   |
| <b>MSU AGBIORESEARCH</b>                     |               |  |  |   |   |
| 579  | \$1,063,374   | US AGENCY FOR INTL DEVELOPMENT         | Buhler, Douglas                        | ABR DIRECTORS OFFICE                    | FEED THE FUTURE INNOVATION LAB FOR LEGUME SYSTEMS RESEARCH  |
| 580  | \$480,000     | AGRICULTURAL MARKETING SERVICE         | Randall, Jesse                         | ABR DIRECTORS OFFICE                    | PURE MAPLE YEAST FOR PURE MAPLE DISTILLATES   |

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|--|-------------|---------------------------------------|---------------------------------|--|---|
| 581  | \$550,084   | NATIONAL INST OF FOOD & AGRICULTURE   | Thompson, Paul                  | DEPARTMENT OF COMMUNITY SUSTAINABILITY | ETHICAL ARCHETYPES FOR TECHNOLOGICAL INNOVATION IN FOOD SYSTEMS   |
| 582  | \$150,000   | US GEOLOGICAL SURVEY                  | Infante, Dana                   | FISHERIES AND WILDLIFE MABR            | AQUATIC GAP ANALYSIS PROGRAM: ENHANCING A NATIONAL VIEW OF CONSERVATION NEEDS OF FISHES AND THEIR HABITATS  |
| 583  | \$8,248     | UNIVERSITY OF ILLINOIS                | Asher, Jeremiah                 | MSU AGBIORESEARCH DIR OFC              | RESOLVING SPATIOTEMPORAL NON-POINT NUTRIENT FLUXES FROM SOILS TO WATER BY CONTINUOUS IN SITU N AND P MONITORING TO ACHIEVE MULTISTATE NUTRIENT LOSS REDUCTION GOALS |
| 584  | \$22,000    | VARIOUS INDUSTRIES                    | Bales, Scott                    | PLANT SOIL AND MICROBIAL SCIENCES      | BALES PSM TESTING   |
| 585  | \$40,200    | VARIOUS INDUSTRIES                    | Burns, Erin                     | PLANT SOIL AND MICROBIAL SCIENCES      | BURNS PSM TESTING   |
| 586  | \$946,349   | NATIONAL INST OF FOOD & AGRICULTURE   | Cassida, Kimberly               | PLANT SOIL AND MICROBIAL SCIENCES      | SOLVING THE MYSTERY OF ALFALFA AUTOTOXICITY: CAUSES AND SOLUTIONS   |
| 587  | \$121,500   | VARIOUS INDUSTRIES                    | Chilvers, Martin                | PLANT SOIL AND MICROBIAL SCIENCES      | CHILVERS PSM TESTING  |
| 588  | \$58,880    | VARIOUS INDUSTRIES                    | Douches, David                  | PLANT SOIL AND MICROBIAL SCIENCES      | DOUCHES PSM TESTING   |
| 589  | \$124,000   | VARIOUS INDUSTRIES                    | Hausbeck, Mary                  | PLANT SOIL AND MICROBIAL SCIENCES      | HAUSBECK PSM TESTING  |
| 590  | \$35,000    | USDA FOREST SERVICE                   | Miesel, Jessica                 | PLANT SOIL AND MICROBIAL SCIENCES      | ECOSYSTEM RESILIENCE AND CLIMATE-ADAPTIVE FOREST MANAGEMENT STRATEGIES  |
| 591  | \$3,952,330 | NATIONAL INST OF FOOD & AGRICULTURE   | Miles, Timothy                  | PLANT SOIL AND MICROBIAL SCIENCES      | BLUE-DYNAMO: AN INTERACTIVE PLATFORM TO DELIVER BLUEBERRY DISEASE AND HORTICULTURAL MANAGEMENT STRATEGIES FOR FRUIT ROTS  |
| 592  | \$36,500    | VARIOUS INDUSTRIES                    | Rogers, John                    | PLANT SOIL AND MICROBIAL SCIENCES      | ROGERS PSM TESTING  |
| 593  | \$146,840   | US GEOLOGICAL SURVEY                  | Asher, Jeremiah                 | WATER RESEARCH INSTITUTE MABR          | IMPROVING ECOSYSTEM SERVICES AND WATER QUALITY THROUGH APPLIED RESEARCH AND TECHNOLOGY ADVANCEMENTS   |
| 594  | \$37,927    | KEWEENAW BAY OJIBWA COMMUNITY COLLEGE | Asher, Jeremiah                 | WATER RESEARCH INSTITUTE MABR          | EXPANDING GROUNDWATER RESEARCH IN BARAGA COUNTY, MICHIGAN: ASSESSING AND REMEDIATING TOXIC METALS IN RESIDENTIAL WELLS  |
| <b>MICHIGAN STATE UNIVERSITY EXTENSION</b> |             |                                       |                                 |  |   |
| 595  | \$183,840   | NATIONAL INST OF FOOD & AGRICULTURE   | Bates, Ronald                   | EXTENSION AGRICULTURE AND AGRIBUSINESS | ASSISTIVE TECHNOLOGY PROGRAM FOR FARMERS WITH DISABILITIES (AGRABILITY)   |

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|-----|-----------|--|---------------------------------|--|--|
| 596 | \$15,000  | VALENT BIOSCIENCES CORP                          | Lavelly, Emily                  | EXTENSION AGRICULTURE AND AGRIBUSINESS   | CHEMICAL PEACH THINNING RESEARCH PROJECT   |
| 597 | \$201,622 | NATIONAL INST OF FOOD & AGRICULTURE              | Lizotte, Erin                   | EXTENSION AGRICULTURE AND AGRIBUSINESS   | INCREASING THE ADOPTION OF IPM PRACTICES IN MICHIGAN TO SUPPORT RESILIENT FARMS AND THRIVING COMMUNITIES IN AN EVER-CHANGING WORLD |
| 598 | \$16,895  | MICHIGAN APPLE COMMITTEE                         | Shane, William                  | EXTENSION AGRICULTURE AND AGRIBUSINESS   | COORDINATED EVALUATION OF APPLE GERMPLASM FOR THE FRESH AND PROCESSING INDUSTRIES  |
| 599 | \$102,000 | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | Tocco, Phillip                  | EXTENSION AGRICULTURE AND AGRIBUSINESS   | PRODUCE SAFETY EDUCATION PROGRAM   |
| 600 | \$6,245   | MICHIGAN 4H FOUNDATION                           | Schulz, Jodi                    | EXTENSION CHILDREN AND YOUTH             | MICHIGAN 4H FOUNDATION COUNTY PROGRAMS   |
| 601 | \$129,997 | MICHIGAN 4H FOUNDATION                           | Schulz, Jodi                    | EXTENSION CHILDREN AND YOUTH             | MICHIGAN 4H FOUNDATION COUNTY PROGRAMS   |
| 602 | \$33,119  | US FISH & WILDLIFE SERVICE                       | Badra, Peter                    | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | MUSSEL AND MACROINVERTEBRATE COMMUNITY ASSESSMENT BEFORE AND AFTER MUSSEL POPULATION AUGMENTATION                                  |
| 603 | \$50,000  | USDA FOREST SERVICE                              | Bassett, Tyler                  | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | HMNF NATIVE SEED COLLECTION PARTNERSHIP  |
| 604 | \$168,838 | US FISH & WILDLIFE SERVICE                       | Bassett, Tyler                  | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | CLIMATE-DRIVEN UNCERTAINTY IN THE SUITABILITY OF GREAT LAKES SHORELINE HABITAT FOR MICHIGAN'S AT-RISK SPECIES                      |
| 605 | \$27,000  | MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS     | Cole-Wick, Ashley               | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | ASSESSING CLIMATE VULNERABILITY FOR AVIAN SPECIES AT FORT CUSTER TRAINING CENTER   |
| 606 | \$199,035 | NATIONAL INST OF FOOD & AGRICULTURE              | Dedecker, James                 | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | THE MIDWESTERN HEMP RESEARCH COLLABORATIVE: PARTICIPATORY RESEARCH AND EXTENSION TO GROW A SUSTAINABLE HEMP INDUSTRY               |
| 607 | \$110,500 | NATIONAL INST OF FOOD & AGRICULTURE              | Ivan, David                     | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | FEDERALLY RECOGNIZED TRIBES EXTENSION PROGRAM  |
| 608 | \$31,896  | VARIOUS INDUSTRIES                               | Miller, Steven                  | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | CEA FEE-FOR-SERVICE  |



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| 609                            | \$99,712    | ANIMAL & PLANT HEALTH INSPECTION SERVICE         | Ockert, Katie                   | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | FY23 WILD CERVID CWD MANAGEMENT AND RESP   |
| 610                            | \$17,825    | WESTERN UP PLANNING & DEVELOPMENT REGION         | Palmer, Abbey                   | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | BUILDING MOMENTUM TO IMPROVE FARM TO SCHOOL CAPACITY, SMALL FARM VIABILITY, AND HEALTHY LOCAL FOOD ACCESS IN U.P. SCHOOLS  |
| 611                            | \$200,116   | BATTLE CREEK UNLIMITED                           | Woods, Mollie                   | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | FUTURE FOOD ACCELERATOR  |
| 612                            | \$178,000   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES         | Contreras, Dawn                 | EXTENSION HEALTH AND NUTRITION           | PHYSICIAN PEER EDUCATION ON IMMUNIZATION   |
| 613                            | \$140,856   | MICHIGAN DEPT OF EDUCATION                       | Earnesty, Dawn                  | EXTENSION HEALTH AND NUTRITION           | TEAM NUTRITION 23 - NUTRITION EDUCATION FOR SCHOOL-AGED CHILDREN   |
| 614                            | \$59,605    | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | Eschbach, Cheryl                | EXTENSION HEALTH AND NUTRITION           | MICHIGAN - FARM AND RANCH STRESS ASSISTANCE NETWORK  |
| 615                            | \$81,914    | UNIVERSITY OF WISCONSIN MADISON                  | Kennedy, Lauren                 | EXTENSION HEALTH AND NUTRITION           | TRAINING AND TECHNICAL ASSISTANCE ADDRESSING OPIOID AND STIMULANT MISUSE AFFECTING RURAL COMMUNITIES IN THE GREAT LAKES REGION (ILLINOIS, INDIANA, MICHIGAN, MINNESOTA, OHIO, & WISCONSIN) |
| 616                            | \$210,000   | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES         | Moore, Erin                     | EXTENSION HEALTH AND NUTRITION           | FY24 VETERAN SNAP OUTREACH PROGRAM   |
| 617                            | \$9,213,848 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES         | Moore, Erin                     | EXTENSION HEALTH AND NUTRITION           | SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM - EDUCATION FY2024   |
| 618                            | \$1,166,667 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES         | Moore, Erin                     | EXTENSION HEALTH AND NUTRITION           | COVID HEALTH AMBASSADOR  |
| 619                            | \$57,600    | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES         | Beyea, Wayne                    | SCHL OF PLANNING,DESIGN&CNST-MSUE        | BUILDING RESILIENCE AGAINST CLIMATE EFFECTS  |
| 620                            | \$143,791   | MICHIGAN FITNESS FOUNDATION                      | Kotval-Karamchandani, Zeenat    | SCHL OF PLANNING,DESIGN&CNST-MSUE        | SAFE ROUTES TO SCHOOL: 2023  |
| <b>RESEARCH AND INNOVATION</b> |             |  |                                 |  |  |

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|--|--------------|--|---------------------------------|--|---|
| 621  | \$9,838,243  | UNIVERSITY OF WISCONSIN MADISON          | Thelen, Kurt                    | GREAT LAKES BIOENERGY RESEARC CTR VPRGS  | GREAT LAKES BIOENERGY RESEARCH CENTER   |
| 622  | \$25,000     | UNIVERSITY OF MICHIGAN                   | Hasemann, Charles               | MSU INNOVATION CENTER                    | T3N(10) - COMMERCIALIZATION FELLOWS   |
| 623  | \$1,823,839  | VARIOUS INDUSTRIES                       | Hasemann, Charles               | MSU INNOVATION CENTER                    | FEE FOR SERVICE - INDUSTRY  |
| <b>UNIVERSITY ADVANCEMENT</b>                  |              |  |                                 |  |   |
| 624  | \$17,450,826 | VARIOUS DONORS - ADVANCEMENT             | Shoup, Anne                     | ADVANCEMENT INFO SYS DONOR STRATEGY      | GIFTS TO MSU FOR THE PERIOD 07/01/2023 TO 09/30/2023  |
| <b>FINANCE</b>                                 |              |  |                                 |  |   |
| 625  | \$6,945,577  | VARIOUS GRANTORS                         | Pedawi, Evonne                  | SPONSORED PROGRAMS ADMIN CGA POSTAWARD   | FEE FOR SERVICE - OTHER   |
| <b>DIVISION OF STUDENT LIFE AND ENGAGEMENT</b> |              |  |                                 |  |   |
| 626  | \$451,379    | MICHIGAN COLLEGE ACCESS NETWORK          | Shaw, Allyn                     | SDER ADMIN                               | MSU COLLEGE ADVISING CORPS WHOSE ACTIVITIES SUPPORT HIGH SCHOOL STUDENTS TO INCREASE POST-SECONDARY EDUCATION OPTIONS |
| 627  | \$1,096,847  | US DEPT OF EDUCATION                     | Royal, Genyne                   | STUDENT PARENT RESOURCE CENTER           | SPARTAN KIDS-CHILD CARE ACCESS MEANS PARENTS IN SCHOOL (CCAMPIS)  |
| <b>MSU HCI CLINICAL SERVICES</b>               |              |  |                                 |  |   |
| 628  | \$55,000     | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Schotzko, Michelle              | MSU HCI CLINICAL SERVICES                | NURSING RETENTION STRATEGY  |
| <b>UNIVERSITY ARTS AND COLLECTIONS</b>         |              |  |                                 |  |   |
| 629  | \$99,958     | NATIONAL PARK SERVICE                    | Stoddart, Judith                | ASC PROV UNIVERSITY ARTS AND COLLECTIONS | COLLECTIONS AUDIT AND SUMMARY UPDATE FOR MICHIGAN STATE UNIVERSITY  |
| 630  | \$10,000     | NATIONAL ENDOWMENT FOR THE HUMANITIES    | Swanson, Lynne                  | MUSEUM                                   | PRESERVATION ASSISTANCE GRANTS FOR SMALLER INSTITUTIONS   |
| <b>UNIVERSITY HEALTH AND WELLBEING</b>         |              |  |                                 |  |   |
| 631  | \$1,728,687  | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Fedewa, Tana                    | CENTER FOR SURVIVORS                     | SASRV-2024 - SEXUAL ASSAULT VICTIM SERVICES   |
| 632  | \$120,000    | MICHIGAN HEALTH ENDOWMENT FUND           | Turchan, Joshua                 | COUNSELING AND PSYCHIATRIC SERVICES      | CLINICALLY MODERATED PEER-TO-PEER SUPPORT PLATFORM FOR MSU STUDENTS   |

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|-----|----------------------|--|--|------------------|---|
| 633 | \$251,254            | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Rosen, Holly                           | DOMESTIC SHELTER | DOMESTIC VIOLENCE PROGRAMMING   |
|     | <b>VARIOUS</b>       |  |  |                  |   |
| 634 | \$135,592            | VARIOUS                                  | Various                                | Various          | 49 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION |
|     | <b>\$305,728,514</b> | <b>Total December 2023 Board</b>         |  |                  |   |

CONSIGNMENT/NON-CASH GIFTS  
BOARD OF TRUSTEES  
December 15, 2023

| GIFT NO. | GIFT  | DONOR                                   | DEPARTMENT NAME                           | ESTIMATED VALUE | PURPOSE OR USE   |
|----------|---|---|---|-----------------|--|
| 1        | Bicycle parts & accessories                               | Matt & Barbara Assenmacher              | MSU Bike Shop                             | \$137,463.00    | Items for resale, repair & use within the MSU bike shop. |
| 2        | Building materials  | James Rosenthal                         | Intercollegiate Athletics<br>Spartan Fund | \$81,273.53     | Lumber for construction of Tom Izzo Football Building.   |
| 3        | Content, design creation & on-site technology display     | Great Lakes Reality Labs                | Intercollegiate Athletics<br>Spartan Fund | \$79,520.00     | Football recruiting                                      |
| 4        | 2023 Chrysler Pacifica mini van<br>VIN# 2C4RC3PG7PR500076 | Stellantis                              | Student Involvement & Leadership          | \$58,302.00     | Additional vehicle for Safe Ride program.                |
| 5        | Auger filler<br>Model SHA                                 | All-Fill                                | School of Packaging                       | \$46,000.00     | Provides precise selection & adjustment of fill amounts. |
| 6        | Use of 32 courtesy vehicles                               | Zeigler Auto Group<br>c/o Aaron Zeigler | Intercollegiate Athletics<br>Spartan Fund | \$30,577.91     | Folds of Honor College event                             |
| 7        | Furniture, delivery fees & design costs                   | Mark Custer                             | Intercollegiate Athletics<br>Spartan Fund | \$23,005.00     | Goods & services to the Tom Izzo Football Building       |
| 8        | Air transportation  | Mike McNamara                           | Intercollegiate Athletics<br>Spartan Fund | \$17,870.76     | Men's basketball recruiting                              |
| 9        | Air transportation  | Mike McNamara                           | Intercollegiate Athletics<br>Spartan Fund | \$13,362.27     | Men's basketball recruiting                              |
| 10       | Air transportation  | Mike McNamara                           | Intercollegiate Athletics<br>Spartan Fund | \$10,686.54     | Men's basketball recruiting                              |

CONSIGNMENT/NON-CASH GIFTS  
BOARD OF TRUSTEES  
December 15, 2023

|       |  |                                     |   |                     |   |
|-------|--|-------------------------------------|---|---------------------|---|
| 11    | Air transportation                                   | Mike McNamara                       | Intercollegiate Athletics<br>Spartan Fund | \$10,581.21         | Men's basketball recruiting   |
| 12    | Air transportation                                   | Mike McNamara                       | Intercollegiate Athletics<br>Spartan Fund | \$10,119.52         | Men's basketball recruiting   |
| 13    | Air transportation                                   | Mike McNamara                       | Intercollegiate Athletics<br>Spartan Fund | \$8,122.67          | Women's basketball recruiting   |
| 14    | Shipping boxes                                       | Packaging Corporation of<br>America | Intercollegiate Athletics<br>Spartan Fund | \$5,979.50          | Donor mailings  |
| 15    | Cargo trailer  | Monte Consulting                    | MSU Extension                             | \$5,188.70          | Transporting Michigan Fresh Fish<br>educational aquaculture display.  |
| 16    | "Brookeview Encore"<br>2-year-old Bay Gelding Equine | Al Tomlinson                        | Large Animal Sciences                     | \$5,000.00          | Plasma donor  |
| 17-34 | Various  | Various                             | Various                                   | \$37,323.39         | 18 Consolidated non-cash gifts<br>for individual values less than<br>\$5,000 details on file in the<br>Hannah Administration Building<br>Contract & Grant Administration<br>Office, Room 2<br>426 Auditorium Road<br>East Lansing, MI |
|       |  |                                     |   |                     |   |
|       |  |                                     | <b>TOTAL</b>                              | <b>\$580,376.00</b> |   |