


MICHIGAN STATE
UNIVERSITY

APPROVED
SEPTEMBER 10, 2021
BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY

August 27, 2021

MEMORANDUM

TO: Members of the Board of Trustees

FROM: Douglas A. Gage, Vice President 

SUBJECT: Gift, Grant, and Contract Report

RECOMMENDATION: That the Board of Trustees approve the attached Gift, Grant, and Contract Report for the period of May 26, 2021, through August 17, 2021. The report is a compilation of 627 Gifts, Grants, and Contracts plus 60 Consignment/Non-Cash Gifts, with a total value of \$186,658,208.



FY 2021-22 TOTALS:

- a) Gifts, Grants, and Contracts only: \$184,515,370
 - b) Gifts, Grants, and Contracts plus Consignments: \$186,658,208
- (Consignments are Non-Cash Gifts and Non-Cash Loans)

RESOLUTION:

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

Office of
**RESEARCH
AND INNOVATION**

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Vice President

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Current Period / Year to Date

Gift & Grant Awards

Meeting Date: 09/10/2021

Current Period: May 26, 2021 - Aug 17, 2021

AWARD TOTALS

| Research | | | |
|------------------------------|----------------------|----------------------|----------------|
| Gift/Grant Source | Current Period | Year to Date | % of Total YTD |
| Federal Government | \$110,148,814 | \$110,148,814 | 86.3% |
| State of Michigan | \$5,504,210 | \$5,504,210 | 4.3% |
| Other | \$3,117,675 | \$3,117,675 | 2.4% |
| Industry/CO | \$2,910,972 | \$2,910,972 | 2.3% |
| Foundation | \$5,255,430 | \$5,255,430 | 4.1% |
| Association | \$681,219 | \$681,219 | 0.5% |
| Research - Total | \$127,618,321 | \$127,618,321 | 100% |
| Non-Research | | | |
| Gift/Grant Source | Current Period | Year to Date | % of Total YTD |
| Federal Government | \$10,138,287 | \$10,138,287 | 17.8% |
| State of Michigan | \$1,111,618 | \$1,111,618 | 2.0% |
| Other | \$1,256,878 | \$1,256,878 | 2.2% |
| Industry/CO | \$29,300 | \$29,300 | 0.1% |
| Foundation | \$1,177,171 | \$1,177,171 | 2.1% |
| Association | \$46,450 | \$46,450 | 0.1% |
| Various Donors - Advancement | \$43,137,345 | \$43,137,345 | 75.8% |
| Non-Research - Total | \$56,897,050 | \$56,897,050 | 100% |
| Total | | | |
| Gift/Grant Source | Current Period | Year to Date | Amount % YTD |
| Federal Government | \$120,287,101 | \$120,287,101 | 65.2% |
| State of Michigan | \$6,615,828 | \$6,615,828 | 3.6% |
| Other | \$4,374,553 | \$4,374,553 | 2.4% |
| Industry/CO | \$2,940,272 | \$2,940,272 | 1.6% |
| Foundation | \$6,432,601 | \$6,432,601 | 3.5% |
| Association | \$727,669 | \$727,669 | 0.4% |
| Various Donors - Advancement | \$43,137,345 | \$43,137,345 | 23.4% |
| TOTAL | \$184,515,370 | \$184,515,370 | 100% |

OF AWARDS

| Research | | | |
|------------------------------|----------------|--------------|----------------|
| Gift/Grant Source | Current Period | Year to Date | % of Total YTD |
| Federal Government | 317 | 317 | 62.4% |
| State of Michigan | 24 | 24 | 4.7% |
| Other | 48 | 48 | 9.4% |
| Industry/CO | 51 | 51 | 10.0% |
| Foundation | 21 | 21 | 4.1% |
| Association | 47 | 47 | 9.3% |
| Research - Total | 508 | 508 | 100% |
| Non-Research | | | |
| Gift/Grant Source | Current Period | Year to Date | % of Total YTD |
| Federal Government | 66 | 66 | 55.5% |
| State of Michigan | 9 | 9 | 7.6% |
| Other | 15 | 15 | 12.6% |
| Industry/CO | 1 | 1 | 0.8% |
| Foundation | 25 | 25 | 21.0% |
| Association | 2 | 2 | 1.7% |
| Various Donors - Advancement | 1 | 1 | 0.8% |
| Non-Research - Total | 119 | 119 | 100% |
| Total | | | |
| Gift/Grant Source | Current Period | Year to Date | Count % YTD |
| Federal Government | 383 | 383 | 61.1% |
| State of Michigan | 33 | 33 | 5.3% |
| Other | 63 | 63 | 10.0% |
| Industry/CO | 52 | 52 | 8.3% |
| Foundation | 46 | 46 | 7.3% |
| Association | 49 | 49 | 7.8% |
| Various Donors - Advancement | 1 | 1 | 0.2% |
| TOTAL | 627 | 627 | 100% |

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 09/10/2021

Current Period: May 26, 2021 - Aug 17, 2021

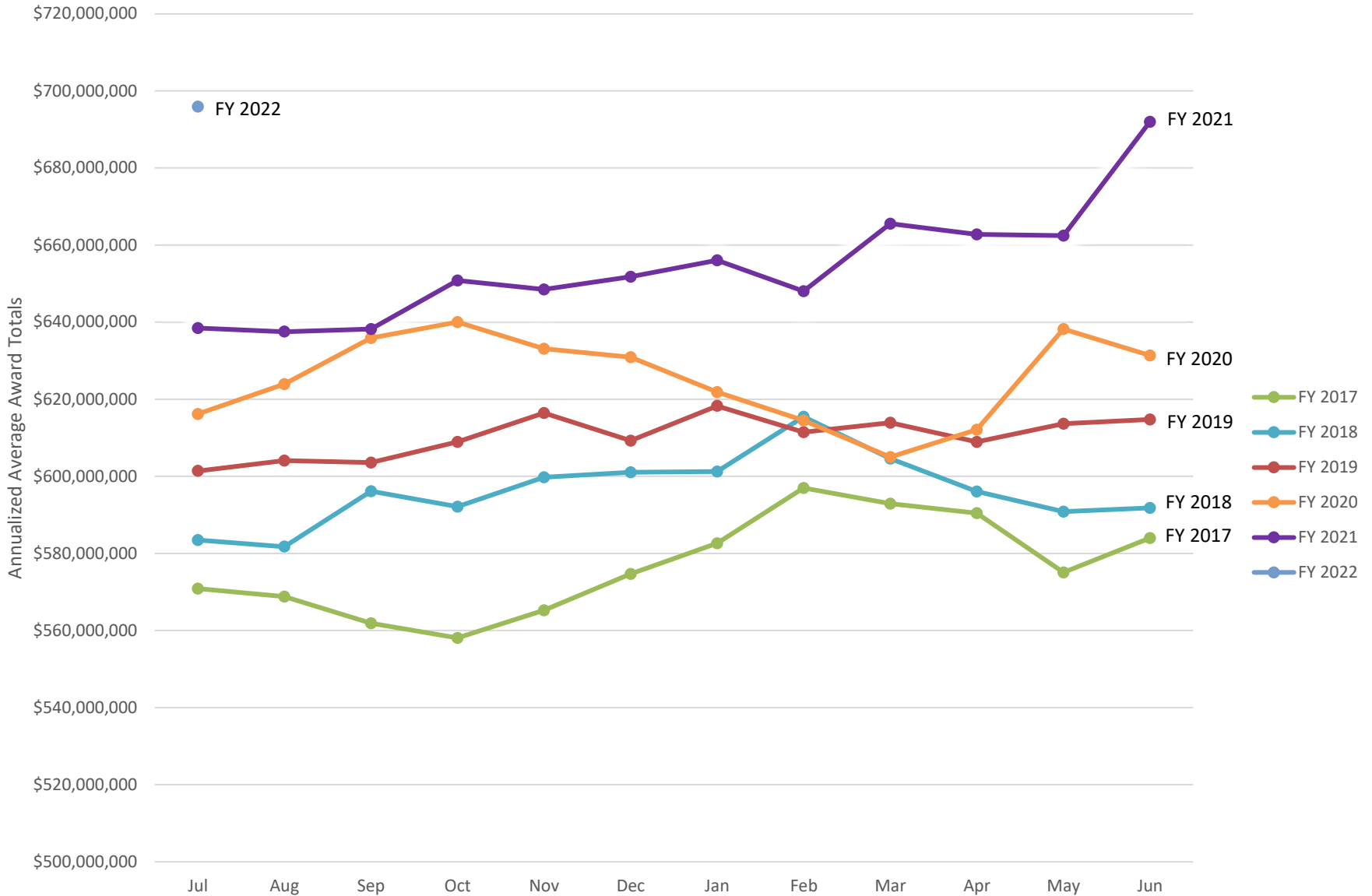
AWARD TOTALS

| Research | | | |
|------------------------------|----------------------|----------------------|-----------------|
| Gift/Grant Source | Previous YTD | Year to Date | % Change |
| Federal Government | \$126,158,509 | \$110,148,814 | -12.7% |
| State of Michigan | \$727,002 | \$5,504,210 | 657.1% |
| Other | \$4,286,041 | \$3,117,675 | -27.3% |
| Industry/CO | \$2,315,495 | \$2,910,972 | 25.7% |
| Foundation | \$2,257,071 | \$5,255,430 | 132.8% |
| Association | \$479,166 | \$681,219 | 42.2% |
| Research - Total | \$136,223,284 | \$127,618,321 | -6.3% |
| Non-Research | | | |
| Gift/Grant Source | Previous YTD | Year to Date | % Change |
| Federal Government | \$17,551,554 | \$10,138,287 | -42.2% |
| State of Michigan | \$177,013 | \$1,111,618 | 528.0% |
| Other | \$2,653,165 | \$1,256,878 | -52.6% |
| Industry/CO | \$335,953 | \$29,300 | -91.3% |
| Foundation | \$1,418,371 | \$1,177,171 | -17.0% |
| Association | \$12,500 | \$46,450 | 271.6% |
| Various Donors - Advancement | \$23,134,241 | \$43,137,345 | 86.5% |
| Non-Research - Total | \$45,282,797 | \$56,897,050 | 25.6% |
| Total | | | |
| Gift/Grant Source | Previous YTD | Year to Date | Amount % Change |
| Federal Government | \$143,710,062 | \$120,287,101 | -16.3% |
| State of Michigan | \$904,015 | \$6,615,828 | 631.8% |
| Other | \$6,939,207 | \$4,374,553 | -37.0% |
| Industry/CO | \$2,651,448 | \$2,940,272 | 10.9% |
| Foundation | \$3,675,442 | \$6,432,601 | 75.0% |
| Association | \$491,666 | \$727,669 | 48.0% |
| Various Donors - Advancement | \$23,134,241 | \$43,137,345 | 86.5% |
| TOTAL | \$181,506,080 | \$184,515,370 | 1.7% |

OF AWARDS

| Research | | | |
|------------------------------|------------------|--------------|----------------|
| Gift/Grant Source | Previous YTD | Year to Date | % Change |
| Federal Government | 327 | 317 | -3.1% |
| State of Michigan | 8 | 24 | 200.0% |
| Other | 79 | 48 | -39.2% |
| Industry/CO | 74 | 51 | -31.1% |
| Foundation | 22 | 21 | -4.5% |
| Association | 28 | 47 | 67.9% |
| Research - Total | 538 | 508 | -5.6% |
| Non-Research | | | |
| Gift/Grant Source | Previous YTD | Year to Date | % Change |
| Federal Government | 57 | 66 | 15.8% |
| State of Michigan | 3 | 9 | 200.0% |
| Other | 34 | 15 | -55.9% |
| Industry/CO | 19 | 1 | -94.7% |
| Foundation | 24 | 25 | 4.2% |
| Association | 2 | 2 | 0.0% |
| Various Donors - Advancement | 1 | 1 | 0.0% |
| Non-Research - Total | 140 | 119 | -15.0% |
| Total | | | |
| Gift/Grant Source | Acceptance Total | Year to Date | Count % Change |
| Federal Government | 384 | 383 | -0.3% |
| State of Michigan | 11 | 33 | 200.0% |
| Other | 113 | 63 | -44.2% |
| Industry/CO | 93 | 52 | -44.1% |
| Foundation | 46 | 46 | 0.0% |
| Association | 30 | 49 | 63.3% |
| Various Donors - Advancement | 1 | 1 | 0.0% |
| TOTAL | 678 | 627 | -7.5% |

Michigan State University 3 Year Annualized Average Awards



Top 10 Awards for the September 10, 2021 BOT Meeting

| Rank | Sponsor Type | Award Amount | Principal Investigator | Sponsor | Department | New or Modification | Award Activity Type | Project Dates | Project Title |
|------|--------------------|---------------------|------------------------|--|--|---------------------|---------------------|--------------------------|--|
| 1 | Federal Government | \$22,000,000 | Thomas Glasmacher | US Dept of Energy | FACILITY FOR RARE ISOTOPE BEAMS | Modification | Research | 03/15/2018 01/14/2023 | Facility for Rare Isotope Beams Transition to Operation and Operation as Scientific User Facility |
| 2 | Federal Government | \$3,500,000 | Gregory Severin | US Dept of Energy | FACILITY FOR RARE ISOTOPE BEAMS | Modification | Research | 09/15/2020 09/14/2024 | Accelerator Improvement Project: Isotope Harvesting at FRIB |
| 3 | Federal Government | \$3,000,000 | Richard York | US Dept of Energy | FACILITY FOR RARE ISOTOPE BEAMS | Modification | Research | 03/15/2018 01/14/2023 | High Rigidity Spectrometer Project – FY20 to FY22 |
| 4 | State of Michigan | \$3,000,000 | George Smith | Michigan Dept of Agriculture & Rural Development | MSU AGRIORESEARCH DIR OFC | New | Research | 05/01/2021 06/30/2024 | Michigan Alliance for Animal Agriculture - 2021 |
| 5 | Federal Government | \$2,943,000 | Steven Lidia | US Dept of Defense | FACILITY FOR RARE ISOTOPE BEAMS | New | Research | 07/09/2021 07/08/2022 | Proposal to add a dedicated beamline for single-event effect analysis to the folding segment 1 of the FRIB heavy-ion linear accelerator |
| 6 | Foundation | \$2,858,800 | Douglas Gage | Michigan State Univ Foundation | OFFICE OF RESEARCH AND INNOVATION | Modification | Research | 07/01/2013 12/31/2030 | Technology Commercialization - MSUT (RG100310) |
| 7 | Federal Government | \$2,725,591 | Jennifer Owen | Defense Threat Reduction Agency | FISHERIES AND WILDLIFE | New | Research | 04/16/2021 04/15/2026 | The Mediterranean and Black Sea Flyway: Transboundary Determinants of Avian Zoonotic Infectious Diseases – Avian Zoonotic Disease Network (AZDN) |
| 8 | Federal Government | \$2,286,356 | Jiayu Zhou | National Inst of Health | COMPUTER SCIENCE AND ENGINEERING | New | Research | 04/15/2021 03/31/2024 | Identification of Mild Cognitive Impairment using Machine Learning from Language and Behavior Markers |
| 9 | Federal Government | \$2,062,618 | Danny Schnell | US Dept of Energy | PLANT BIOLOGY CNS | Modification | Research | 09/15/2017 09/14/2022 | A Systems Approach to Increasing Carbon Flux to Seed Oil for Biofuels and Bioproducts Production in Camelina sativa |
| 10 | Federal Government | \$1,950,797 | John Wise | National Inst of Food & Agriculture | ENTOMOLOGY AGRICULTURE AND NATURAL RES | New | Research | 08/01/2021 07/31/2025 | IR-4 Minor Crop Pest Management |
| | TOTAL | \$46,327,162 | | | | | | | |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|---|-------------|---|-------------------------------------|--|--|
| COLLEGE OF AGRICULTURE AND NAT RESOURCES | | | | | |
| 1 | \$10,000 | WORLDFISH | Belton, Benjamin | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | PRIVATE SECTOR RESPONSES TO COVID-19 DISRUPTIONS IN POTATO AND FISH VALUE CHAINS IN KENYA |
| 2 | \$159,665 | NATIONAL INST OF FOOD & AGRICULTURE | HOPKINS, Kelsey | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | AVOIDING HALAL MEAT FOOD FRAUD: CONSUMER PREFERENCES, RETAILER MOTIVATIONS, AND PROCESSOR PRACTICES |
| 3 | \$32,478 | INTL MAIZE & WHEAT IMPROVEMENT CENTER | Jayne, Thomas | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | DEVELOPMENT OF A RESEARCH AGENDA AND RELATED FUNDING PROPOSAL FOR SUSTAINABLE AGRICULTURAL INTENSIFICATION AND RURAL ECONOMIC TRANSFORMATION (SAIRET+) |
| 4 | \$678,760 | INTL FOOD POLICY RESEARCH INST | Liverpool-Tasie, Lenis | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | NIGERIA AGRICULTURE POLICY ACTIVITY |
| 5 | \$1,500,000 | US AGENCY FOR INTL DEVELOPMENT | Maredia, Mywish | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | AGRICULTURE AND NUTRITION POLICY ACTIVITY TANZANIA ASSOCIATE AWARD |
| 6 | \$25,284 | WORLDFISH | Tasie, Oyinkansola | AGRICULTURAL FOOD AND RESOURCE ECONOMICS | VALUE CHAIN ADAPTATIONS, PIVOTS, AND POLICIES IN NIGERIA BEYOND COVID-19 |
| 7 | \$88,000 | NATIONAL INST OF ANIMAL SCIENCE | Gondro, Cedric | ANIMAL SCIENCE DEPARTMENT ANR | DEVELOPMENT OF ADVANCED TECHNOLOGIES TO ESTABLISH A HIGH-QUALITY, HIGHLY PRODUCTIVE JERSEY HERD |
| 8 | \$499,994 | NATIONAL INST OF FOOD & AGRICULTURE | Kendrick, Tasia | ANIMAL SCIENCE DEPARTMENT ANR | CROSSING-PATHS: CROSS-CULTURAL EXCHANGE ON CROSS-BRED CATTLE MARKETS |
| 9 | \$78,250 | NATIONAL INST OF HEALTH | Latham, Keith | ANIMAL SCIENCE DEPARTMENT ANR | CONDITIONAL KNOCKOUT EFFECTS OF SMCHD1 IN OOCYTES AND EMBRYOS |
| 10 | \$99,821 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Das, Narendra | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | ENHANCEMENT OF SMAP HIGH-RESOLUTION SOIL MOISTURE DATA USING NISAR AND ITS AGRICULTURAL APPLICATION |
| 11 | \$614,347 | USDA-NATURAL RESOURCES CONSERVATION SERVICE | Ghane, Ehsan | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | ACCELERATING THE ADOPTION OF SATURATED BUFFERS USING AN EDUCATIONAL DECISION-SUPPORT TOOL |
| 12 | \$67,486 | US DEPT OF DEFENSE | Liao, Wei | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | BLACK WATER TREATMENT TESTING |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----|---------------|-------------------------------|---|---|---|
| 13 | \$49,819 | AGRICULTURAL RESEARCH SERVICE | Marks, Bradley | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | ACQUISITION OF GOODS AND SERVICES |
| 14 | \$75,000 | KANSAS STATE UNIV | Nejadhashemi, Amirpouyan | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | GEOSPATIAL, FARMING SYSTEMS, AND DIGITAL TOOLS CONSORTIUM – BUILDING A NEW ERA OF PREDICTIVE AGRICULTURAL INNOVATION TO IMPROVE THE LIVELIHOOD OF SMALLHOLDER FARMERS |
| 15 | \$332,578 | NATIONAL SCIENCE FOUNDATION | Saffron, Christopher | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | NSF-DFG EICHEM: FUTURE FUELS AND CHEMICALS FROM ELECTROCATALYTIC UPGRADING: ADVANCING KINETIC UNDERSTANDING USING OPERANDO SPECTROSCOPIC APPROACHES AND QUANTUM CHEMICAL MODELING |
| 16 | \$32,876 | CONSUMERS ENERGY | Surbrook, Truman | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | MAEC DUES - GENERAL RESEARCH |
| 17 | \$16,438 | DTE ENERGY | Surbrook, Truman | BIOSYSTEMS AND AGRICULTURAL ENGINEERING | MAEC DUES 2021 |
| 18 | \$143,149 | CORP FOR A SKILLED WORKFORCE | Barry, Judith | DEPARTMENT OF COMMUNITY SUSTAINABILITY | DEVELOPING AGRICULTURE TECHNOLOGY EDUCATION AND CAREER PATHWAYS FOR MIGRANT AND SEASONAL FARMWORKERS |
| 19 | \$70,000 | MICHIGAN DEPT OF EDUCATION | Forbush, Mark | DEPARTMENT OF COMMUNITY SUSTAINABILITY | 2020/21 OCTE GRANT |
| 20 | \$22,228 | TWO SIX LABS | Gray, Steven | DEPARTMENT OF COMMUNITY SUSTAINABILITY | MULTI-INFORMED MODELS EMERGING FROM SOCIAL INVESTIGATIONS AND SEMIOTICS (MIMESIS) |
| 21 | \$178,013 | US DEPT OF AGRICULTURE | Pirog, Richard | DEPARTMENT OF COMMUNITY SUSTAINABILITY | INCREASING RECORDKEEPING AND FINANCIAL MANAGEMENT OPPORTUNITIES FOR UNDERSERVED PRODUCERS IN MICHIGAN |
| 22 | \$60,000 | MICHIGAN DEPT OF EDUCATION | Rogers-Randolph, Tiffany | DEPARTMENT OF COMMUNITY SUSTAINABILITY | FFA 2021-2022 |
| 23 | \$40,000 | MICHIGAN DEPT OF EDUCATION | Wyrick, David | DEPARTMENT OF COMMUNITY SUSTAINABILITY | FFA (FUTURE FARMERS OF AMERICA) 2020-2021 |
| 24 | \$252,919 | NATIONAL SCIENCE FOUNDATION | Chung, Henry | ENTOMOLOGY AGRICULTURE AND NATURAL RES | MOLECULAR AND EVOLUTIONARY MECHANISMS UNDERLYING DESICCATION RESISTANCE ACROSS DROSOPHILA SPECIES |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----|-----------|--|-------------------------------------|--|--|
| 25 | \$25,000 | MICHIGAN TREE FRUIT COMMISSION | Gut, Larry | ENTOMOLOGY AGRICULTURE AND NATURAL RES | STERILE INSECT RELEASE FOR MANAGING CODLING MOTH IN MI APPLES PRODUCED FOR GERBER'S |
| 26 | \$19,902 | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | Isaacs, Rufus | ENTOMOLOGY AGRICULTURE AND NATURAL RES | EXOTIC GRAPE PESTS IN MICHIGAN RESEARCH |
| 27 | \$15,080 | MICHIGAN STATE HORTICULTURAL SOCIETY | Isaacs, Rufus | ENTOMOLOGY AGRICULTURE AND NATURAL RES | CHEMICAL CONTROL OF GALL WASP - OPTIMIZING PROMISING LEADS |
| 28 | \$14,997 | MICHIGAN STATE HORTICULTURAL SOCIETY | Isaacs, Rufus | ENTOMOLOGY AGRICULTURE AND NATURAL RES | MANAGING PRIORITY INSECT PESTS OF MICHIGAN VINEYARDS |
| 29 | \$500,000 | FOREIGN AGRICULTURAL SERVICE | Jiang, Wayne | ENTOMOLOGY AGRICULTURE AND NATURAL RES | PESTICIDE RESIDUE FIELD TRIALS |
| 30 | \$622,353 | NEW PARTNERSHIPS FOR AFRICAS DEVELOPMENT | Maredia, Karimbhai | ENTOMOLOGY AGRICULTURE AND NATURAL RES | AFRICAN BIOSAFETY NETWORK OF EXPERTISE: PHASE 3 AUDA-NEPAD PROGRAM |
| 31 | \$52,600 | USDA FOREST SERVICE | McCullough, Deborah | ENTOMOLOGY AGRICULTURE AND NATURAL RES | AREA-WIDE CONTROL OF EMERALD ASH BORER USING INTEGRATED BIOLOGICAL CONTROL AND SYSTEMIC INSECTICIDES |
| 32 | \$334,900 | MICHIGAN DEPT OF NATURAL RESOURCES | McCullough, Deborah | ENTOMOLOGY AGRICULTURE AND NATURAL RES | BEECH BARK DISEASE AND BEECH LEAF DISEASE; DISTRIBUTION, IMPACTS AND MANAGEMENT CONSEQUENCES |
| 33 | \$48,700 | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | McCullough, Deborah | ENTOMOLOGY AGRICULTURE AND NATURAL RES | RESEARCH ON EXOTIC FOREST PESTS IN HIGH RISK SITES IN MICHIGAN: FOCUS ON RECREATIONAL AREAS AT RISK OF EXOTIC FOREST PEST INTRODUCTION |
| 34 | \$50,571 | AGRICULTURAL RESEARCH SERVICE | Milbrath, Meghan | ENTOMOLOGY AGRICULTURE AND NATURAL RES | USING BIG DATA TO IMPROVE DIAGNOSIS OF LARVAL HEALTH AND DISEASE IN HONEY BEES |
| 35 | \$60,368 | MISSISSIPPI STATE UNIV | Pechal, Jennifer | ENTOMOLOGY AGRICULTURE AND NATURAL RES | NO LONGER BUGGED BY FEED COSTS: FARMING INSECTS AS SUSTAINABLE AND SCALABLE AQUACULTURE FEEDSTOCK TO IMPROVE CATFISH (CLARIDAE) PRODUCERS' AND CONSUMERS' LIVELIHOODS TOWARDS FOOD SECURITY IN NIGERIA |
| 36 | \$10,000 | MICHIGAN TREE FRUIT COMMISSION | Szucs, Marianna | ENTOMOLOGY AGRICULTURE AND NATURAL RES | BIOLOGICAL CONTROL OF BROWN MARMORATED STINK BUG IN SOUTHWESTERN MICHIGAN |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----|---------------|--|---|--|---|
| 37 | \$8,159 | MICHIGAN STATE HORTICULTURAL SOCIETY | Szucs, Marianna | ENTOMOLOGY AGRICULTURE AND NATURAL RES | MASS REARING AND RELEASE OF THE SAMURAI WASP, A NATURAL ENEMY OF BROWN MARMORATED STINK BUG |
| 38 | \$39,800 | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | Wilson, Julianna | ENTOMOLOGY AGRICULTURE AND NATURAL RES | RESEARCH ON EXOTIC POME AND STONE FRUIT PESTS IN MICHIGAN |
| 39 | \$100,000 | MICHIGAN TREE FRUIT COMMISSION | Wilson, Julianna | ENTOMOLOGY AGRICULTURE AND NATURAL RES | DETERMINING THE GREENHOUSE GAS MITIGATION POTENTIAL OF HIGH-DENSITY APPLE ORCHARDS IN THE GREAT LAKES REGION |
| 40 | \$11,457 | MICHIGAN APPLE COMMITTEE | Wilson, Julianna | ENTOMOLOGY AGRICULTURE AND NATURAL RES | TREE FRUIT INTEGRATOR POSITION |
| 41 | \$1,950,797 | NORTH CAROLINA STATE UNIV | Wise, John | ENTOMOLOGY AGRICULTURE AND NATURAL RES | IR-4 MINOR CROP PEST MANAGEMENT |
| 42 | \$15,000 | MICHIGAN TREE FRUIT COMMISSION | Wise, John | ENTOMOLOGY AGRICULTURE AND NATURAL RES | 2021 CONTROL OF PEAR PSYLLA WITH BIOPESTICIDES: FOLIAR AND TRUNK INJECTION DEMONSTRATION TRIAL AT WCMHREC |
| 43 | \$271,000 | USDA FOREST SERVICE | Ziegler, Amos | ENTOMOLOGY AGRICULTURE AND NATURAL RES | NATIONAL SLOW THE SPREAD OF THE GYPSY MOTH (STS) PROJECT: NORTHERN REGIONAL DATABASE NODE |
| 44 | \$28,000 | ANIMAL & PLANT HEALTH INSPECTION SERVICE | Ziegler, Amos | ENTOMOLOGY AGRICULTURE AND NATURAL RES | EAB BIOLOGICAL CONTROL MOBILE DATA COLLECTION FOR RELEASE, RECOVERY AND EVALUATION |
| 45 | \$231,900 | MICHIGAN DEPT OF NATURAL RESOURCES | Ziegler, Amos | ENTOMOLOGY AGRICULTURE AND NATURAL RES | MISIN - BRIDGING THE GAP AND CLOSING THE LOOP ON INVASIVE SPECIES DATA IN MICHIGAN |
| 46 | \$85,235 | ILLINOIS DEPT OF NATURAL RESOURCES | Bence, James | FISHERIES AND WILDLIFE | MICHIGAN STATE UNIVERSITY QUANTITATIVE FISHERIES CENTER/GREAT LAKES FISHERIES CONSULTING WITH ILLINOIS DEPARTMENT OF NATURAL RESOURCES |
| 47 | \$17,047 | 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 |
| 48 | \$168,707 | 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 |
| 49 | \$64,000 | ASSOC OF FISH & WILDLIFE AGENCIES | Christensen, Sonja | FISHERIES AND WILDLIFE | FISH AND WILDLIFE HEALTH COORDINATION AND STRATEGIC PLANNING |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----|-------------|---|-------------------------------------|------------------------------------|--|
| 50 | \$130,000 | MICHIGAN DEPT OF NATURAL RESOURCES | Infante, Dana | FISHERIES AND WILDLIFE | DEVELOPING A HOLISTIC APPROACH TO EVALUATE AND COMMUNICATE NATURAL RESOURCE ASSETS AND MANAGEMENT ACTIONS FOR MICHIGAN'S LARGE RIVERS: FOCUS ON THE AU SABLE RIVER |
| 51 | \$7,590 | GREAT LAKES FISHERY COMMISSION | Li, Weiming | FISHERIES AND WILDLIFE | JOHN HUME PERM AGREEMENT JANUARY 2019 - DECEMBER 2021. |
| 52 | \$290,354 | NATIONAL SCIENCE FOUNDATION | Liu, Jianguo | FISHERIES AND WILDLIFE | COLLABORATIVE RESEARCH: COMPLEX EFFECTS OF TELECOUPLED ACTIVITIES IN THE CHANGING ENVIRONMENT OF THE ARCTIC |
| 53 | \$2,725,591 | DEFENSE THREAT REDUCTION AGENCY | Owen, Jennifer | FISHERIES AND WILDLIFE | THE MEDITERRANEAN AND BLACK SEA FLYWAY: TRANSBOUNDARY DETERMINANTS OF AVIAN ZONOTIC INFECTIOUS DISEASES – AVIAN ZONOTIC DISEASE NETWORK (AZDN) |
| 54 | \$158,209 | NATIONAL COUNCIL FOR AIR & STREAM IMPROVEMENT | Roloff, Gary | FISHERIES AND WILDLIFE | FOREST MANAGEMENT EFFECTS ON SPECIES OF CONSERVATION CONCERN: WOOD TURTLES AND GOLDEN-WINGED WARBLERS |
| 55 | \$226,436 | NATIONAL SCIENCE FOUNDATION | Soranno, Patricia | FISHERIES AND WILDLIFE | NSF IPA FOR DR. SORANNO |
| 56 | \$43,604 | GREAT LAKES FISHERY COMMISSION | Vandergoot, Christopher | FISHERIES AND WILDLIFE | SPATIAL AND TEMPORAL ECOLOGY OF LAKE ERIE LAKE TROUT |
| 57 | \$416,246 | NATIONAL INST OF HEALTH | Pestka, James | FOOD SCIENCE AND HUM NUTRITION ANR | DIETARY LIPIDS AND SILICA-TRIGGERED AUTOIMMUNITY |
| 58 | \$144,997 | CALIFORNIA DEPT OF FORESTRY & FIRE PROTECTION | Cooper, Lauren | FORESTRY | IMPACT OF FOREST MANAGEMENT ON CARBON SEQUESTRATION AND STORAGE IN CALIFORNIA |
| 59 | \$249,646 | MICHIGAN DEPT OF NATURAL RESOURCES | Rothstein, David | FORESTRY | A COMPREHENSIVE APPROACH TO DENSITY MANAGEMENT OF JACK PINE PLANTATIONS IN KIRTLAND'S WARBLER MANAGEMENT AREAS |
| 60 | \$18,000 | MICHIGAN BLUEBERRY COMMISSION | Chaudhari, Sushila | HORTICULTURE ANR | ADVANCING SUSTAINABILITY IN BLUEBERRY WITH SITE-SPECIFIC WEED MANAGEMENT |
| 61 | \$9,110 | PICKLE PACKERS INTL INC | Chaudhari, Sushila | HORTICULTURE ANR | NEW HERBICIDE EVALUATION FOR ROW MIDDLE WEED CONTROL IN PICKLING CUCUMBER AND PEPPER PRODUCTION SYSTEMS |
| 62 | \$7,752 | MICHIGAN STATE HORTICULTURAL SOCIETY | Chaudhari, Sushila | HORTICULTURE ANR | ADVANCING SUSTAINABILITY IN VINEYARDS WITH SITE-SPECIFIC WEED MANAGEMENT |
| 63 | \$104,968 | NORTH CAROLINA STATE UNIV | Edger, Patrick | HORTICULTURE ANR | VACCINIUMCAP: LEVERAGING GENETIC AND GENOMIC RESOURCES TO ENABLE DEVELOPMENT OF IMPROVED BLUEBERRY AND CRANBERRY CULTIVARS TO GROWERS AND CONSUMERS |
| 64 | \$160,249 | CORNELL UNIV | Einhorn, Todd | HORTICULTURE ANR | PRECISION CROP LOAD MANAGEMENT FOR APPLES |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----|-----------|--------------------------------------|-------------------------------------|-----------------------------------|---|
| 65 | \$10,165 | MICHIGAN STATE HORTICULTURAL SOCIETY | Lang, Gregory | HORTICULTURE ANR | OPTIMIZING FUTURE STONE FRUIT PRODUCTION SYSTEMS |
| 66 | \$14,000 | INTL FRUIT TREE ASSOC | Lang, Gregory | HORTICULTURE ANR | UNRESTRICTED GIFT IN ORCHARD RESEARCH PROGRAMS |
| 67 | \$29,300 | DUMMEN N.A., INC. | Lopez, Roberto | HORTICULTURE ANR | UNRESTRICTED GIFT IN FLORICULTURE RESEARCH |
| 68 | \$49,150 | FINE AMERICAS INC | Lopez, Roberto | HORTICULTURE ANR | UNRESTRICTED GIFT IN FLORICULTURE RESEARCH. |
| 69 | \$7,000 | SIGNIFY | Lopez, Roberto | HORTICULTURE ANR | UNRESTRICTED GIFT IN SUPPORT OF FLORICULTURE RESEARCH PROGRAM. |
| 70 | \$48,450 | AGRICULTURAL RESEARCH SERVICE | Runkle, Erik | HORTICULTURE ANR | ENVIRONMENTAL STRATEGIES AND PGR APPLICATIONS TO INCREASE PLANT RESILIENCE |
| 71 | \$72,744 | MICHIGAN CHRISTMAS TREE ASSOC | Saha, Debalina | HORTICULTURE ANR | DEVELOPMENT OF INTEGRATED WEED CONTROL PROGRAM FOR MICHIGAN CHRISTMAS TREE PRODUCTION |
| 72 | \$401,112 | NATIONAL SCIENCE FOUNDATION | Rabnawaz, Muhammad | PACKAGING | CAREER: BRIDGING THE GAPS AMONG COMMODITY THERMOPLASTICS, ENGINEERING POLYMERS AND THERMOSETS VIA THERMALLY REVERSIBLE CROSSLINKING |
| 73 | \$27,756 | AGRICULTURAL RESEARCH SERVICE | Chilvers, Martin | PLANT SOIL AND MICROBIAL SCIENCES | INTEGRATED MANAGEMENT OF FHB AND DON IN SOFT WHITE WINTER WHEAT AND WINTER BARLEY IN MICHIGAN |
| 74 | \$40,000 | AGRICULTURAL RESEARCH SERVICE | Chilvers, Martin | PLANT SOIL AND MICROBIAL SCIENCES | ESTABLISHING THE INFRASTRUCTURE TO DEVELOP PREDICTION TOOLS FOR DISEASES AND MYCOTOXINS AFFECTING CORN TO BETTER INFORM MANAGEMENT DECISIONS |
| 75 | \$311,597 | NATIONAL SCIENCE FOUNDATION | Day, Brad | PLANT SOIL AND MICROBIAL SCIENCES | CYTOSKELETAL REGULATION OF IMMUNITY. |
| 76 | \$12,000 | MICHIGAN TURFGRASS FOUNDATION | Frank, Kevin | PLANT SOIL AND MICROBIAL SCIENCES | 2021-22 TURFGRASS RESEARCH |
| 77 | \$55,000 | AGRICULTURAL RESEARCH SERVICE | Gomez, Francisco | PLANT SOIL AND MICROBIAL SCIENCES | EVALUATION AND OPTIMIZATION OF GENOMIC SELECTION FOR DURABLE WHITE MOLD RESISTANCE IN DRY BEAN |
| 78 | \$13,400 | UNIVERSITY OF NEBRASKA - LINCOLN | Gomez, Francisco | PLANT SOIL AND MICROBIAL SCIENCES | IMPROVED WHITE MOLD RESISTANCE IN DRY AND SNAP BEANS THROUGH MULTI-SITE SCREENING AND PATHOGEN CHARACTERIZATION THROUGHOUT MAJOR PRODUCTION AREAS |
| 79 | \$22,000 | PICKLE PACKERS INTL INC | Hausbeck, Mary | PLANT SOIL AND MICROBIAL SCIENCES | DOWNY MILDEW ON PICKLING CUCUMBERS: COMPARING DIAGNOSTIC TOOLS FOR MICHIGAN GROWERS |
| 80 | \$13,750 | PICKLE PACKERS INTL INC | Hausbeck, Mary | PLANT SOIL AND MICROBIAL SCIENCES | MONITORING THE DOWNY MILDEW PATHOGEN FOR RESISTANCE TO FUNGICIDES USING FIELD AND MOLECULAR TOOLS |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----|-----------|--------------------------------------|-------------------------------------|-----------------------------------|---|
| 81 | \$56,575 | AGRICULTURAL RESEARCH SERVICE | Horgan, Brian | PLANT SOIL AND MICROBIAL SCIENCES | ACQUISITION OF GOODS AND SERVICES |
| 82 | \$23,530 | AGRICULTURAL RESEARCH SERVICE | Horgan, Brian | PLANT SOIL AND MICROBIAL SCIENCES | HOSTING THE MANAGER OF THE USWBSI'S NETWORKING AND FACILITATION OFFICE |
| 83 | \$122,771 | AGRICULTURAL RESEARCH SERVICE | Horgan, Brian | PLANT SOIL AND MICROBIAL SCIENCES | ACQUISITION OF GOODS AND SERVICES |
| 84 | \$51,084 | AGRICULTURAL RESEARCH SERVICE | Horgan, Brian | PLANT SOIL AND MICROBIAL SCIENCES | ACQUISITION OF GOODS AND SERVICES |
| 85 | \$43,131 | AGRICULTURAL RESEARCH SERVICE | Horgan, Brian | PLANT SOIL AND MICROBIAL SCIENCES | ACQUISITION OF GOODS AND SERVICES |
| 86 | \$12,957 | MICHIGAN POTATO INDUSTRY COMMISSION | Long, Christopher | PLANT SOIL AND MICROBIAL SCIENCES | MICHIGAN POTATO RESEARCH TECHNICIAN |
| 87 | \$5,533 | MICHIGAN POTATO INDUSTRY COMMISSION | Long, Christopher | PLANT SOIL AND MICROBIAL SCIENCES | MICHIGAN POTATO RESEARCH SALARY FUNDING |
| 88 | \$195,500 | POTATOES USA | Long, Christopher | PLANT SOIL AND MICROBIAL SCIENCES | NATIONAL CHIP POTATO VARIETY COMMERCIALIZATION PROGRAM MANAGEMENT |
| 89 | \$12,000 | MICHIGAN TURFGRASS FOUNDATION | Merewitz Holm, Emily | PLANT SOIL AND MICROBIAL SCIENCES | 2021-22 TURFGRASS RESEARCH |
| 90 | \$15,000 | MICHIGAN STATE HORTICULTURAL SOCIETY | Miles, Timothy | PLANT SOIL AND MICROBIAL SCIENCES | IDENTIFYING A ONE-SIZE FITS ALL APPROACH FOR FUNGAL PATHOGENS IN MICHIGAN VINEYARDS |
| 91 | \$12,000 | MICHIGAN TURFGRASS FOUNDATION | Nikolai, Thomas | PLANT SOIL AND MICROBIAL SCIENCES | 2021-22 TURFGRASS RESEARCH |
| 92 | \$17,400 | US GOLF ASSOC | Rogers, John | PLANT SOIL AND MICROBIAL SCIENCES | GOLF BALL REACTION AND SOIL STRENGTH STUDY |
| 93 | \$12,000 | MICHIGAN TURFGRASS FOUNDATION | Rogers, John | PLANT SOIL AND MICROBIAL SCIENCES | 2021-22 TURFGRASS RESEARCH |
| 94 | \$27,824 | UNIVERSITY OF WISCONSIN MADISON | Singh, Maninderpal | PLANT SOIL AND MICROBIAL SCIENCES | BOOTS ON THE GROUND: VALIDATION OF BENCHMARKING PROCESS THROUGH AN INTEGRATED ON-FARM NETWORK |
| 95 | \$294,051 | INTL INST FOR TROPICAL AGRICULTURE | Snapp, Sieglinde | PLANT SOIL AND MICROBIAL SCIENCES | TRANSFORMING KEY PRODUCTION SYSTEMS: MAIZE MIXED EAST AND SOUTHERN AFRICA |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|------------------------------------|---------------|--|---|---|---|
| 96 | \$9,850 | MICHIGAN TREE FRUIT COMMISSION | Sundin, George | PLANT SOIL AND MICROBIAL SCIENCES | ESTABLISHMENT OF A MULTI-CULTIVAR HIGH DENSITY APPLE ORCHARD FOR APPLE SCAB AND FRUIT ROT FUNGICIDE TRIALS |
| 97 | \$12,000 | MICHIGAN TURFGRASS FOUNDATION | Vargas, Joseph | PLANT SOIL AND MICROBIAL SCIENCES | 2021-22 TURFGRASS RESEARCH |
| 98 | \$76,353 | AGRICULTURAL RESEARCH SERVICE | Wang, Dechun | PLANT SOIL AND MICROBIAL SCIENCES | ENHANCING SOYBEAN FOR RESISTANCE TO SCLEROTINIA STEM ROT |
| 99 | \$29,050 | OHIO STATE UNIV | Wang, Dechun | PLANT SOIL AND MICROBIAL SCIENCES | INCREASING SOYBEAN GENETIC GAIN FOR YIELD BY DEVELOPING TOOLS, KNOW-HOW AND COMMUNITY AMOUNT PUBLIC BREEDERS IN THE NORTH CENTRAL US |
| 100 | \$58,209 | OHIO STATE UNIV | Wang, Dechun | PLANT SOIL AND MICROBIAL SCIENCES | DEVELOPING THE PERFECT MOLECULAR MARKERS AND NEW GERMPLASM FOR RAPID INCORPORATION OF RESISTANCE TO SOIL BORNE PATHOGENS OF SOYBEAN |
| 101 | \$30,486 | OREGON STATE UNIV | Werner, Sarah | PLANT SOIL AND MICROBIAL SCIENCES | IDENTIFYING PLANT GENES ASSOCIATED WITH BENEFICIAL FOLIAR YEASTS IN POPULUS TRICHOCARPA |
| 102 | \$106,011 | US ARMY CORPS OF ENGINEERS | Cui, Yue | SCHOOL OF PLANNING DES CONSTRUCTION ANR | ALGORITHM FOR INVENTORY AND SPATIAL ANALYSIS IN NATURAL RESOURCES MANAGEMENT, INSTITUTE FOR WATER RESOURCES |
| 103 | \$32,103 | NATIONAL SCIENCE FOUNDATION | Mollaoglu, Sinem | SCHOOL OF PLANNING DES CONSTRUCTION ANR | UNDERSTANDING IMPACTS OF SOCIAL NETWORK INTERVENTIONS ON ENGINEERING PROJECT OUTCOMES |
| 104 | \$163,073 | US DEPT OF HOUSING & URBAN DEVELOPMENT | Sohn, Won Min | SCHOOL OF PLANNING DES CONSTRUCTION ANR | DEVELOPMENT OF COMPREHENSIVE CLIMATE VULNERABILITY AND RESILIENCE CAPACITY INDEXES FOR ENHANCING URBAN RECOVERY IN MIDWESTERN COMMUNITIES |
| 105 | \$50,546 | AGRICULTURAL RESEARCH SERVICE | Williams, Zachary | SOUTH CAMPUS ANIMAL FARMS CANR | EFFECT OF MAREK'S DISEASE CVRM VACCINE ON THE ENHANCEMENT OF SPONTANEOUS AVIAN LEUKOSIS-LIKE TUMORS |
| COLLEGE OF ARTS AND LETTERS | | | | | |
| 106 | \$74,514 | SPENCER FOUNDATION | Brown, Ruth | AFRICAN AMERICAN AND AFRICAN STUDIES | FORMS OF FREEDOM: THE ART AND DESIGN OF BLACK AND INDIGENOUS CREATIVE PUBLIC PEDAGOGIES |
| 107 | \$650,000 | THE ANDREW W MELLON FOUNDATION | Long, Christopher | AL RESEARCH AND SCHOLARSHIP | HUMETRICSHSS - LIVE YOUR VALUES; TRANSFORM THE ACADEMY |
| 108 | \$15,000 | NATIONAL WRITING PROJECT CORP | Smith, Trixie | ARTS AND LETTERS WRITING CENTER | C3WP PROFESSIONAL DEVELOPMENT SITE INQUIRY |
| 109 | \$218,000 | THE ANDREW W MELLON FOUNDATION | Baker Bell, April | ENGLISH | A CROSS-DISCIPLINARY APPROACH TO ANTI-RACIST MEDICAL EDUCATION |
| 110 | \$27,469 | UNIVERSITY OF MICHIGAN | Khalil, Mohammad | RELIGIOUS STUDIES | DIGITAL ISLAMIC STUDIES CURRICULUM (DISC) |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|---|-----------|--|-------------------------------------|--------------------------------------|---|
| 111 | \$10,977 | BRANDEIS UNIVERSITY | Yares, Laura | RELIGIOUS STUDIES | JEWISH LEARNING THROUGH THE CULTURAL ARTS |
| ELI BROAD COLLEGE OF BUSINESS | | | | | |
| 112 | \$133,590 | US DEPT OF THE ARMY | Fraye, David | EXECUTIVE DEVELOPMENT PROGRAMS | ARMY WORKSPACE EXTENSION |
| 113 | \$304,000 | US DEPT OF EDUCATION | Kirca, Ahmet | INTERNATIONAL BUSINESS CENTER | CENTER FOR INTERNATIONAL BUSINESS EDUCATION RESEARCH: STRATEGIC AND SUSTAINABLE VALUE CHAINS FOR INCREASED INTERNATIONAL COMPETITIVENESS |
| 114 | \$36,015 | MICHIGAN ECONOMIC DEVELOPMENT CORP | Kirca, Ahmet | INTERNATIONAL BUSINESS CENTER | MEDC INTERNATIONAL INTERNSHIP PROGRAM |
| 115 | \$10,000 | NEGOTIATION & TEAM RESOURCES | Hollenbeck, John | MANAGEMENT | WORKING TOGETHER TO OUR COLLECTIVE DEMISE: THE ROLE OF INTEGRATIVE STRATEGY ON ESCALATION OF COMMITMENT IN MULTI-PHASE NEGOTIATIONS |
| 116 | \$19,998 | NATIONAL SCIENCE FOUNDATION | Hollenbeck, John | MANAGEMENT | RAPID: THE CHANGING NATURE OF WORK: DYNAMIC RECONFIGURATION AND VISUALIZATION IN THE CONTEXT OF COVID-19 CONTACT TRACING |
| COLLEGE OF COMMUNICATION ARTS SCIENCES | | | | | |
| 117 | \$10,000 | ERIKSON INSTITUTE | Alade, Fashina | ADVERTISING AND PUBLIC RELATIONS | ZOOM PROJECT |
| 118 | \$21,450 | CAPITAL AREA UNITED WAY INC | Elkins, Susanne | BROADCASTING SERVICES | ENGAGING FAMILIES IN EARLY LITERACY |
| 119 | \$184,021 | CORP FOR PUBLIC BROADCASTING | Elkins, Susanne | BROADCASTING SERVICES | AMERICAN RESCUE PLAN ACT STABILIZATION GRANT |
| 120 | \$74,996 | CENTERS FOR DISEASE CONTROL & PREVENTION | Dearing, James | COMMUNICATION | DEARING INTERGOVERNMENTAL PERSONNEL ACT (IPA) - CDC/PPEB |
| 121 | \$153,305 | ANHEUSER BUSCH FOUNDATION | Martell, Dennis | COMMUNICATION ARTS AND SCIENCES DEAN | NATIONAL SOCIAL NORMS CENTER |
| 122 | \$435,525 | NATIONAL INST OF HEALTH | Yaruss, J Scott | COMMUNICATIVE SCIENCES DISORDERS CAS | STUTTERING IN THE REAL WORLD: QUANTIFYING VARIABILITY TO IMPROVE MEASUREMENT RELIABILITY AND VALIDITY |
| 123 | \$539,390 | ROBERT WOOD JOHNSON FOUNDATION | Chinni, Dante | JOURNALISM | EXPLORING THE SOCIAL DETERMINANTS OF HEALTH AND ENABLING POLICYMAKERS TO UNDERSTAND CULTURAL, SOCIOECONOMIC, AND POLITICAL CHANGES AT THE LOCAL LEVEL |
| 124 | \$306,300 | ARTHUR M BANK FAMILY FOUNDATION | Chinni, Dante | JOURNALISM | STUDYING DEATHS OF DESPAIR |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----------------------------|---------------|---|---|--|---|
| 125 | \$351,498 | NATIONAL SCIENCE FOUNDATION | Takahashi, Bruno | JOURNALISM | COLLABORATIVE RESEARCH: BROADENING PARTICIPATION AMONG SCIENCE COMMUNICATION PRACTITIONERS: SCIENCE COMMUNICATION AND REPRESENTATION FELLOWSHIP (SCARF) |
| 126 | \$11,067 | MICHIGAN DEPT OF LICENSING & REGULATORY AFFAIRS | Swierenga, Sarah | MEDIA AND INFORMATION | MICHIGAN WORKFORCE BACKGROUND CHECK FY21 |
| COLLEGE OF EDUCATION | | | | | |
| 127 | \$12,577 | YORK UNIVERSITY | Morley, Alyssa | CED INTERNATIONAL STUDIES IN EDUCATION | RETURNS AT RISK: COVID-19 AND GIRLS' EDUCATION IN MALAWI |
| 128 | \$192,251 | BRADY EDUCATION FOUNDATION | Carter Andrews, Dorinda | CED OUTREACH | RACIAL EQUITY IN SCHOOL DISCIPLINE FOR BLACK STUDENTS |
| 129 | \$25,000 | MICHIGAN DEPT OF HUMAN SERVICES | Carlson, John | COUNSELING, EDUC PSYCH & SPEC EDUC | INFANT AND EARLY CHILDHOOD MENTAL HEALTH CONSULTATION EVALUATION (ECMHC) |
| 130 | \$10,000 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Carlson, John | COUNSELING, EDUC PSYCH & SPEC EDUC | WRAPAROUND EVALUATION PROJECT |
| 131 | \$461,206 | INST OF EDUCATION SCIENCES | Cho, Eunsoo | COUNSELING, EDUC PSYCH & SPEC EDUC | PROJECT I-SMART: INTERVENTION TO SUPPORT MINDSET AND READING TOGETHER |
| 132 | \$19,757 | DREXEL UNIV | Plavnick, Joshua | COUNSELING, EDUC PSYCH & SPEC EDUC | PREVALENCE AND PROFILE OF TREATMENT NON-RESPONDERS IN AUTISM EARLY INTERVENTION |
| 133 | \$411,286 | US DEPT OF EDUCATION | Truckenmiller, Adrea | COUNSELING, EDUC PSYCH & SPEC EDUC | WRITING ARCHITECT: A WEB-BASED TOOL FOR ADAPTING WRITING INSTRUCTION TO MEET STUDENTS' NEEDS |
| 134 | \$404,463 | NATIONAL SCIENCE FOUNDATION | Krajcik, Joseph | CREATE FOR STEM | SUPPORTING INSTRUCTIONAL DECISION MAKING: THE POTENTIAL OF AUTOMATICALLY SCORED THREE-DIMENSIONAL ASSESSMENT SYSTEM |
| 135 | \$245,000 | DETROIT PUBLIC SCHOOLS | Reimann, Christopher | CREATE FOR STEM | DETROIT PS PROFESSIONAL DEVELOPMENT |
| 136 | \$10,000 | MICHIGAN COLLEGE ACCESS NETWORK | Beverly, Christel | EDUCATION DEAN | DESIGNING A MOBILE APP TO IMPROVE STUDENT AWARENESS OF AND ACCESS TO COLLEGE AND CAREER PATHWAYS: ARE YOU INIT2WINIT©? |
| 137 | \$50,000 | VARIOUS SCHOOLS | Paine, Lynn | EDUCATION DEAN | CHINESE TEACHER CERTIFICATION PROGRAM |
| 138 | \$674,691 | US DEPT OF EDUCATION | Imberman, Scott | EDUCATION POLICY CENTER | IMPROVING EDUCATION SYSTEMS THROUGH INTERDISCIPLINARY TRAINING AND PRACTICE: APPLYING SOCIAL SCIENCE TO EDUCATION POLICY AND IMPLEMENTATION RESEARCH |
| 139 | \$131,133 | NATIONAL INST OF HEALTH | Baez, Shelby | KINESIOLOGY - ED | VIRTUAL REALITY MINDFULNESS MEDITATION IN PATIENTS AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-------------------------------|-----------|---|-------------------------------------|--|--|
| 140 | \$26,287 | TUFTS MEDICAL CENTER | Harkey, Matthew | KINESIOLOGY - ED | INTERPRETATION AND UTILITY OF NOVEL COMPOSITE STRUCTURAL ENDPOINTS OF CUMULATIVE DAMAGE AND DISEASE ACTIVITY IN KNEE OSTEOARTHRITIS (GRANT 1R01AR076411) |
| 141 | \$8,867 | NEW YORK UNIV | Hauck, Janet | KINESIOLOGY - ED | PLAY & LEARNING ACROSS A YEAR (PLAY) |
| 142 | \$18,527 | NEW YORK UNIV | Lee, Mei Hua | KINESIOLOGY - ED | PLAY & LEARNING ACROSS A YEAR (PLAY) |
| 143 | \$99,692 | MICHIGAN HEALTH ENDOWMENT FUND | Malete, Leapetswe | KINESIOLOGY - ED | ENHANCING YOUTH PHYSICAL ACTIVITY AND WELL-BEING (YPAW) |
| 144 | \$29,990 | US DEPT OF THE ARMY | Pontifex, Matthew | KINESIOLOGY - ED | NEUROCOGNITIVE ASSESSMENT OF THE READINESS OF ELITE OPERATORS |
| 145 | \$33,131 | UNIVERSITY OF MICHIGAN | Halvorsen, Anne-Lise | TEACHER EDUCATION | THE GREAT FIRST EIGHT CURRICULUM |
| 146 | \$579,823 | NATIONAL SCIENCE FOUNDATION | Richmond, Gail | TEACHER EDUCATION | TEACHING SCIENCE OUTDOORS: A NEXT GENERATION APPROACH FOR ADVANCING ELEMENTARY SCIENCE TEACHING IN URBAN COMMUNITIES |
| COLLEGE OF ENGINEERING | | | | | |
| 147 | \$21,966 | NATIONAL SCIENCE FOUNDATION | Boehlert, Carl | CHEMICAL ENGINEERING AND MATERIALS SCI | INTERNATIONAL SUPPLEMENT TO EXISTING NSF DMR AWARD |
| 148 | \$898,526 | GENERAL MOTORS CORP | Boeman, Raymond | CHEMICAL ENGINEERING AND MATERIALS SCI | GM-SURF: DEVELOPMENT OF TAILORED FIBER PLACEMENT, MULTI-FUNCTIONAL, STRUCTURAL BATTERY ENCLOSURE |
| 149 | \$192,373 | COLLABORATIVE COMPOSITE SOLUTIONS CORP | Boeman, Raymond | CHEMICAL ENGINEERING AND MATERIALS SCI | SORF: TRIMER POLYURETHANE PLAQUE AND COMPONENT HP RTM MOLDING |
| 150 | \$442,956 | REMADE INST | Dorgan, John | CHEMICAL ENGINEERING AND MATERIALS SCI | COMBICLEAN: AN OPEN ACCESS DATABASE FOR FACILITATING CONTAMINANT REMOVAL FROM RECYCLED PLASTICS |
| 151 | \$37,382 | GENERAL MOTORS CORP | Fang, Chengcheng | CHEMICAL ENGINEERING AND MATERIALS SCI | STUDYING DISSOLVED METAL MIGRATION, WETTING, AND THERMAL STABILITY OF HIGHLY CONCENTRATED ELECTROLYTE SYSTEM |
| 152 | \$199,286 | GENERAL MOTORS CORP | Fang, Chengcheng | CHEMICAL ENGINEERING AND MATERIALS SCI | MSU ELECTROLYTE SCREENING |
| 153 | \$32,250 | NATIONAL SCIENCE FOUNDATION | Garratt, Elias | CHEMICAL ENGINEERING AND MATERIALS SCI | INTERN: FMSG: INTEGRATING ARTIFICIAL INTELLIGENCE IN CHEMICAL VAPOR DEPOSITION FOR IN-SITU PREDICTIVE CRYSTAL GROWTH MANUFACTURING. |
| 154 | \$77,404 | UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN | Mendoza Cortes, Jose | CHEMICAL ENGINEERING AND MATERIALS SCI | ENABLING FAST AND EFFICIENT NONAQUEOUS ION (CO-) INTERCALATION FOR HIGH ENERGY DENSITY CHARGE STORAGE VIA SYSTEMATIC INTERFACIAL DESIGN |
| 155 | \$156,758 | NATIONAL INST OF HEALTH | Szczepanski, Caroline | CHEMICAL ENGINEERING AND MATERIALS SCI | REINFORCING DENTAL ADHESIVES WITH MONOMERS CAPABLE DYNAMIC REARRANGEMENT AND SELF-RECOVERY |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|----------------------------------|-------------------------------------|--|---|
| 156 | \$406,358 | NATIONAL SCIENCE FOUNDATION | Zevalkink, Alexandra | CHEMICAL ENGINEERING AND MATERIALS SCI | COLLABORATIVE RESEARCH: DMREF: DESIGN OF SUPERIONIC CONDUCTORS BY TUNING LATTICE DYNAMICS |
| 157 | \$62,993 | NATIONAL SCIENCE FOUNDATION | Zevalkink, Alexandra | CHEMICAL ENGINEERING AND MATERIALS SCI | CAREER: DECOUPLING STRUCTURE AND COMPOSITION WITH ZINTL POLYMORPHS |
| 158 | \$90,001 | ARGONNE NATIONAL LABORATORY | Buch, Neeraj | CIVIL AND ENVIRONMENTAL ENGINEERING | INTEGRATING OPTIMAL ELECTRIC VEHICLE CHARGING INFRASTRUCTURE FOR LIGHT- TO HEAVY-DUTY VEHICLE CLASSES INTO POLARIS FOR METROPOLITAN AREAS |
| 159 | \$45,205 | NATIONAL SCIENCE FOUNDATION | Cetin, Bora | CIVIL AND ENVIRONMENTAL ENGINEERING | SUPPLEMENTAL FUNDING: COLLABORATIVE RESEARCH: ENGINEERED WATER REPELLENCY TO MITIGATE FROST SUSCEPTIBILITY: DECOUPLING OSMOTIC AND MATRIC POTENTIAL |
| 160 | \$184,389 | MINNESOTA DEPT OF TRANSPORTATION | Cetin, Bora | CIVIL AND ENVIRONMENTAL ENGINEERING | MNDOT HAUL/DETOUR ROUTES - IMPACT ON LOCAL ROADS |
| 161 | \$260,000 | MINNESOTA DEPT OF TRANSPORTATION | Cetin, Bora | CIVIL AND ENVIRONMENTAL ENGINEERING | COMPARISON OF COMPOST AND PROPRIETARY SOIL AMENDMENTS FOR VEGETATION ESTABLISHMENT |
| 162 | \$199,336 | MINNESOTA DEPT OF TRANSPORTATION | Cetin, Bora | CIVIL AND ENVIRONMENTAL ENGINEERING | EVALUATION OF PROPRIETARY REJUVENATORS |
| 163 | \$269,622 | NATIONAL SCIENCE FOUNDATION | Cupples, Alison | CIVIL AND ENVIRONMENTAL ENGINEERING | NSF-BSF: DEVELOPING SUSTAINABLE APPROACHES FOR CO-METABOLIC DEGRADATION OF TCE AND DCE IN GROUNDWATER THROUGH STABLE ISOTOPE TEC |
| 164 | \$19,957 | APPLIED RESEARCH ASSOCIATES INC | Haider, Syed | CIVIL AND ENVIRONMENTAL ENGINEERING | NCHRP/LTPP DATA ANALYSIS: DEVELOP PRACTICAL TOOLS AND PROCEDURES TO IMPROVE WIM DATA QUALITY |
| 165 | \$70,000 | EATON CORP | Haq, Mahmoodul | CIVIL AND ENVIRONMENTAL ENGINEERING | PHASE II LARGE FORMAT POLYMER AM - INTEGRATION ON PROCESSING MONITORING DATA IN MULTISCALE MODELING |
| 166 | \$183,264 | US GEOLOGICAL SURVEY | Mantha, Phanikumar | CIVIL AND ENVIRONMENTAL ENGINEERING | CLADOPHORA IN THE GREAT LAKES: FIELD OBSERVATIONS AND MODELING |
| 167 | \$314,999 | NATIONAL SCIENCE FOUNDATION | Pokhrel, Yadu | CIVIL AND ENVIRONMENTAL ENGINEERING | COLLABORATIVE RESEARCH: ANTHROPOGENIC WATER MANAGEMENT, CLIMATE CHANGE, AND ENVIRONMENTAL SUSTAINABILITY IN THE SOUTHWESTERN US (ACCESS) |
| 168 | \$130,157 | VANASSE HANGEN BRUSTLIN INC | Savolainen, Peter | CIVIL AND ENVIRONMENTAL ENGINEERING | INCORPORATING IMPACTS OF DRIVER DISTRACTION INTO HIGHWAY DESIGN AND TRAFFIC ENGINEERING |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-------------|--|-------------------------------------|--|--|
| 169 | \$85,000 | WSP MICHIGAN INC | Savolainen, Peter | CIVIL AND ENVIRONMENTAL ENGINEERING | CORRIDOR AND SYSTEMWIDE APPLICATION OF PERFORMANCE BASED PRACTICAL DESIGN |
| 170 | \$428,656 | NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM | Savolainen, Peter | CIVIL AND ENVIRONMENTAL ENGINEERING | UPDATE OF POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS GUIDANCE ON ACCELERATION/DECELERATION AND STOPPING SIGHT DISTANCE |
| 171 | \$32,000 | FORD MOTOR CO | Zockaie, Ali | CIVIL AND ENVIRONMENTAL ENGINEERING | SUMMER 2021 SABBATICAL |
| 172 | \$17,472 | COLLABORATIVE COMPOSITE SOLUTIONS CORP | Drzal, Lawrence | COMPOSITE MATERIALS AND STRUCTURES CTR | IACMI TASK 3.1 - SET UP AND M&O (MANAGEMENT AND OPERATIONS)-PROJECT AGREEMENT #: PA16-0349-3.1-01 |
| 173 | \$16,000 | FORD MOTOR CO | Lei, Huan | COMPUTATIONAL MATH SCI AND ENGR EGR | 2021 SUMMER SABBATICAL |
| 174 | \$90,464 | PURDUE UNIV | Boddeti, Vishnu | COMPUTER SCIENCE AND ENGINEERING | DEVELOPMENT OF ULTRAFAST CAMERAS FOR QUANTUM HEAT ASSISTED DETECTION AND RANGING (Q-HADAR) |
| 175 | \$200,000 | FORD MOTOR CO | Boddeti, Vishnu | COMPUTER SCIENCE AND ENGINEERING | HUMAN KEYPOINT LOCALIZATION AND TRACKING ON COMPUTE LIMITED HARDWARE |
| 176 | \$250,000 | NATIONAL SCIENCE FOUNDATION | Bonakdarpour, Borzoo | COMPUTER SCIENCE AND ENGINEERING | COLLABORATIVE RESEARCH: SHF: SMALL: RUNTIME VERIFICATION AT THE EDGE |
| 177 | \$444,000 | DEFENSE ADVANCED RESEARCH PROJECTS AGENCY | Liu, Xiaoming | COMPUTER SCIENCE AND ENGINEERING | INTELLIGENT DIAGNOSIS FOR MACHINE AND HUMAN-CENTRIC ADVERSARIES |
| 178 | \$469,949 | INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY | Ross, Arun | COMPUTER SCIENCE AND ENGINEERING | PRESENTATION ATTACK DETECTION: SOLUTIONS FOR FINGERPRINTS, FACE AND IRIS SYSTEMS |
| 179 | \$166,433 | NATIONAL SCIENCE FOUNDATION | Tan, Pang-Ning | COMPUTER SCIENCE AND ENGINEERING | III: SMALL: PREDICTION AND CHARACTERIZATION OF EXTREME EVENTS IN SPATIO-TEMPORAL DATA. |
| 180 | \$30,000 | PENNSYLVANIA STATE UNIV | Tang, Jiliang | COMPUTER SCIENCE AND ENGINEERING | TOWARD INTERPRETABLE AND STABLE GRAPH NEURAL NETWORKS |
| 181 | \$16,000 | NATIONAL SCIENCE FOUNDATION | Yan, Qiben | COMPUTER SCIENCE AND ENGINEERING | SATC: CORE: SMALL: URADIO: TOWARDS SECURE SMART HOME IOT COMMUNICATION USING HYBRID ULTRASONIC-RF RADIO |
| 182 | \$2,286,356 | NATIONAL INST OF HEALTH | Zhou, Jiayu | COMPUTER SCIENCE AND ENGINEERING | IDENTIFICATION OF MILD COGNITIVE IMPAIRMENT USING MACHINE LEARNING FROM LANGUAGE AND BEHAVIOR MARKERS |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|---|-------------------------------------|--|--|
| 183 | \$130,586 | KBR | Albrecht, John | ELECTRICAL AND COMPUTER ENGINEERING | DEVELOPMENT OF A HIGH-ELECTRIC FIELD CARRIER MOBILITY MODELING TOOL BASED ON THE FIRST-PRINCIPLES EPW PACKAGE |
| 184 | \$200,000 | WRIGHT BROTHERS INST | Albrecht, John | ELECTRICAL AND COMPUTER ENGINEERING | HIGH-EFFICIENCY KA-BAND GAN POWER AMPLIFIERS USING CLASS-J DESIGNS AND INNOVATIVE PACKAGING |
| 185 | \$22,626 | FRAUNHOFER USA | Asmussen, Jes | ELECTRICAL AND COMPUTER ENGINEERING | FRAUNHOFER CENTER RENEWAL |
| 186 | \$12,411 | UNIVERSITY OF MICHIGAN | Ayres, Virginia | ELECTRICAL AND COMPUTER ENGINEERING | MICHIGAN SPACE GRANT CONSORTIUM PROPOSAL FOR NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM - NASA STEM FY 2020 – 2024 |
| 187 | \$24,000 | RIVERSIDE RESEARCH | Balasubramaniam, Shanker | ELECTRICAL AND COMPUTER ENGINEERING | COMPUTATIONAL ELECTROMAGNETICS, OPTICS AND DISTRIBUTED RADAR |
| 188 | \$183,000 | GREAT LAKES CRYSTAL TECHNOLOGIES INC | Baryshev, Sergey | ELECTRICAL AND COMPUTER ENGINEERING | LARGE DIFFRACTION-GRADE SINGLE CRYSTAL DIAMOND FOR APPLICATIONS AT NEW GENERATION SYNCHROTRON AND FEL X-RAY SOURCES |
| 189 | \$20,000 | AMER SOCIETY FOR NONDESTRUCTIVE TESTING | Deng, Yiming | ELECTRICAL AND COMPUTER ENGINEERING | APPLICATION OF GUIDED WAVES FOR CONTROLLED ELECTROMAGNETIC TARGETED HEATING OF CONTINUOUS BOND LINE |
| 190 | \$116,279 | DEFENSE ADVANCED RESEARCH PROJECTS AGENCY | Nanzer, Jeffrey | ELECTRICAL AND COMPUTER ENGINEERING | KNOWLEDGE-ENHANCED MICROWAVE BEAMFORMING FOR THERMAL ABLATION OF TUMORS |
| 191 | \$38,261 | NATIONAL SCIENCE FOUNDATION | Sepulveda Alancastro, Nelson | ELECTRICAL AND COMPUTER ENGINEERING | RELIABLE, FLEXIBLE PATCH FOR MONITORING HEAD INJURIES IN HIGH-CONTACT SPORTS--INTERN |
| 192 | \$50,370 | US DEPT OF EDUCATION | Sepulveda Alancastro, Nelson | ELECTRICAL AND COMPUTER ENGINEERING | ENABLING TALENTED STUDENTS TO SUCCESSFUL CAREERS IN AREAS OF NATIONAL NEED - SUPPLEMENT REQUEST |
| 193 | \$33,322 | PRINCETON UNIV | Srivastava, Vaibhav | ELECTRICAL AND COMPUTER ENGINEERING | RESILIENCE AND ROBUSTNESS IN ECOLOGICAL DISTRIBUTED DECISION-MAKING DYNAMICS |
| 194 | \$36,411 | US NAVAL RESEARCH LABORATORY | Tan, Xiaobo | ELECTRICAL AND COMPUTER ENGINEERING | ACTIVE FLEXIBLE SURFACE FOR BOUNDARY FLOW STUDIES |
| 195 | \$154,000 | US DEPT OF ENERGY | Verboncoeur, John | ELECTRICAL AND COMPUTER ENGINEERING | STUDIES OF KEY MECHANISMS AND CONTROL STRATEGIES FOR PLASMAS IN MICRO/SUB-MICRO SCALES |
| 196 | \$250,000 | UNIVERSITY OF NEW MEXICO | Verboncoeur, John | ELECTRICAL AND COMPUTER ENGINEERING | EXPLORATION OF FUNDAMENTAL LIMITS TO HIGH POWER ELECTROMAGNETIC (HPM) AMPLIFICATION |
| 197 | \$48,001 | NATIONAL INST OF HEALTH | Aguirre, Aitor | INSTITUTE FOR QUANTITATIVE HEALTH | OXYLIPIN SIGNALING IN CONGENITAL HEART DISEASE |
| 198 | \$477,403 | NATIONAL INST OF HEALTH | Bhattacharya, Sudin | INSTITUTE FOR QUANTITATIVE HEALTH | INTEGRATIVE TRANSCRIPTIONAL AND EPIGENOMIC MODELING OF XENOBIOTIC- ACTIVATED GENE REGULATORY NETWORKS |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----------------------------------|-----------|---|-------------------------------------|-----------------------------------|---|
| 199 | \$332,381 | NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES | Gilad, Assaf | INSTITUTE FOR QUANTITATIVE HEALTH | MOLECULAR IMAGING FOR DETECTION OF SYNTHETIC BIOLOGY CIRCUITS, OSCILLATORS AND TOGGLE SWITCHES IN REGENERATIVE MEDICINE |
| 200 | \$248,189 | NATIONAL INST OF HEALTH | Johnson, Brian | INSTITUTE FOR QUANTITATIVE HEALTH | ELUCIDATING AHR SIGNALING INTERPLAY IN OROFACIAL CLEFTING AND ENDOCRINE DISRUPTION USING MICROPLATE MICROFLUIDICS |
| 201 | \$514,865 | NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES | Pelled, Galit | INSTITUTE FOR QUANTITATIVE HEALTH | BIOENGINEERING A NOVEL ELECTROMAGNETIC PERSPECTIVE GENE AS A TOOL FOR WIRELESS CONTROL OF EXCITABLE CELLS |
| 202 | \$37,118 | NATIONAL INST OF HEALTH | Riggins, Tiair | INSTITUTE FOR QUANTITATIVE HEALTH | NEUROTECHNOLOGY DESIGN FEATURES' IMPACT ON THE IDENTITY AND FUNCTION OF REACTIVE ASTROCYTES |
| 203 | \$42,455 | STANFORD UNIV | Smith, Bryan | INSTITUTE FOR QUANTITATIVE HEALTH | PRECISION NANOTHERAPIES FOR CARDIOVASCULAR DISEASE |
| 204 | \$32,538 | NATIONAL SCIENCE FOUNDATION | Anthony, Rebecca | MECHANICAL ENGINEERING | CAREER: CONTINUOUS, VAPOR-PHASE MANUFACTURING OF ANISOTROPIC SILICON NANOSTRUCTURES |
| 205 | \$343,561 | OREGON STATE UNIV | Benard, Andre | MECHANICAL ENGINEERING | FRESHWATER RECOVERY SYSTEM FOR HYDRAULIC FRACTURING (FRESH-FRAC) USING A THERMALLY-ACTUATED NOZZLE-DEMISTER |
| 206 | \$550,000 | NATIONAL SCIENCE FOUNDATION | Bush, Tamara | MECHANICAL ENGINEERING | SIXTH SENSE - A WHEELCHAIR THAT KNOWS YOUR NEEDS BEFORE YOU DO |
| 207 | \$14,000 | NATIONAL SCIENCE FOUNDATION | Gao, Tong | MECHANICAL ENGINEERING | CAREER: UNVEILING THE STABILITY, RHEOLOGY, AND TOPOLOGY OF ACTIVE FLUIDS |
| 208 | \$80,000 | AGRICULTURAL RESEARCH SERVICE | Li, Zhaojian | MECHANICAL ENGINEERING | DEVELOPMENT OF A CONTROL AND PLANNING SYSTEM FOR AN APPLE ROBOTIC HARVESTER |
| 209 | \$55,000 | LOS ALAMOS NATL LABORATORY | Mejia-Alvarez, Ricardo | MECHANICAL ENGINEERING | EXPERIMENTAL MEASUREMENTS OF KELVIN-HELMHOLTZ INSTABILITIES WITH HIGH VISCOSITY RATIOS |
| 210 | \$80,864 | OFFICE OF NAVAL RESEARCH | Mukherjee, Ranjan | MECHANICAL ENGINEERING | PERFORMANCE OPTIMIZATION OF AN UNDERWATER VEHICLE PROPELLED BY A FLUTTERING TAIL |
| 211 | \$54,941 | OFFICE OF NAVAL RESEARCH | Nadimpalli, Siva | MECHANICAL ENGINEERING | DEVELOPMENT OF STRAIN-BASED HEALTH MONITORING AND THERMAL RUNAWAY DETECTION METHOD |
| 212 | \$96,864 | BROWN UNIV | Zayernouri, Mohsen | MECHANICAL ENGINEERING | FRACTIONAL PDES FOR CONSERVATION LAWS AND BEYOND: THEORY, NUMERICS AND APPLICATIONS |
| 213 | \$115,000 | MID MICHIGAN RESEARCH LLC | Zhu, Guoming | MECHANICAL ENGINEERING | TESTING OF A JETFIRE ENGINE - PHASE II |
| COLLEGE OF HUMAN MEDICINE | | | | | |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|---------------|---|---|--------------------------------|---|
| 214 | \$27,345 | SEATTLE GENETICS INC | Isaac, Daniel | CANCER CENTER | A STUDY OF ENFORTUMAB VEDOTIN (ASG-22CE) AS MONOTHERAPY OR IN COMBINATION WITH OTHER ANTICANCER THERAPIES FOR THE TREATMENT OF UROTHELIAL CANCER. |
| 215 | \$502,709 | NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT | Custack, Amy | CHM FLINT | INNOVATIVE NUTRITION PRACTICES IN PEDIATRIC HEALTH CARE: ASSESSMENT OF A FRUIT AND VEGETABLE PRESCRIPTION PROGRAM FOR CHILDREN IN NEED |
| 216 | \$75,000 | COMMUNITY FOUNDATION OF GREATER FLINT | Hanna-Attisha, Mona | CHM FLINT | EXPANSION OF NUTRITION PRESCRIPTION PROGRAM: A PRENATAL PILOT |
| 217 | \$175,000 | THE JPB FOUNDATION | Hanna-Attisha, Mona | CHM FLINT | PEDIATRIC PUBLIC HEALTH INITIATIVE ALICE HAMILTON SCHOLARS TRAINING PROGRAM |
| 218 | \$251,700 | GEORGE MASON UNIV | Johnson, Jennifer | CHM FLINT | EVALUATION OF STEPPING UP EFFORTS TO IMPROVE MH SERVICES AND JUSTICE UTILIZATION |
| 219 | \$664,218 | NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT | Johnson, Jennifer | CHM FLINT | IPT FOR MAJOR DEPRESSION FOLLOWING PERINATAL LOSS |
| 220 | \$32,061 | UNIVERSITY OF MICHIGAN | Key, Kent | CHM FLINT | RECRUITING AND RETAINING OLDER AFRICAN AMERICANS INTO RESEARCH (ROAR) |
| 221 | \$177,404 | NATIONAL HEART LUNG & BLOOD INST | Lucas, Todd | CHM FLINT | THE RESEARCH TO REDUCE DISPARITIES IN DISEASE (R2D2) |
| 222 | \$50,000 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Ondersma, Steven | CHM FLINT | MICHIGAN STATE OPIOID RESPONSE 2 PROJECT |
| 223 | \$150,000 | UNIVERSITY OF MICHIGAN | Ondersma, Steven | CHM FLINT | COMPREHENSIVE MC3 FOR MOMS |
| 224 | \$377,490 | NATIONAL INST OF HEALTH | Ondersma, Steven | CHM FLINT | ACCELERATING COLLABORATIVE, CUMULATIVE, AND OPEN INTERVENTION SCIENCE WITH AN E-INTERVENTION AUTHORIZING PLATFORM |
| 225 | \$283,062 | NATIONAL INST OF ALCOHOL ABUSE & ALCOHOLISM | Ondersma, Steven | CHM FLINT | SCALING UP: A MULTI-SITE TRIAL OF E-SBI FOR ALCOHOL USE IN PREGNANCY |
| 226 | \$34,829 | UNIVERSITY OF MICHIGAN | Bohnert, Kipling | EPIDEMIOLOGY AND BIOSTATISTICS | FACILITATING USE OF THE NATIONAL SUICIDE PREVENTION LIFELINE IN ALCOHOL PATIENTS |
| 227 | \$75,256 | UNIVERSITY OF FLORIDA | Li, Chenxi | EPIDEMIOLOGY AND BIOSTATISTICS | METHODS AND SOFTWARE FOR HIGH-DIMENSIONAL RISK PREDICTION RESEARCH |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|---------------|---|---|--|--|
| 228 | \$381,888 | NATIONAL INST OF HEALTH | Margerison, Claire | EPIDEMIOLOGY AND BIOSTATISTICS | POLICY CHANGE AND WOMEN'S HEALTH |
| 229 | \$365,958 | NATIONAL INST OF HEALTH | Misra, Dawn | EPIDEMIOLOGY AND BIOSTATISTICS | FATHERS MATTER: FATHERS CONTRIBUTIONS TO BIRTH OUTCOMES IN BLACK FAMILIES |
| 230 | \$328,232 | NATIONAL INST ON DEAFNESS & OTHER COMMUNICATION DISORDERS | Talge, Nicole | EPIDEMIOLOGY AND BIOSTATISTICS | FALSE POSITIVE NEWBORN HEARING SCREENING RESULTS AND AUTISM SPECTRUM DISORDER |
| 231 | \$78,250 | NATIONAL INST OF HEALTH | de los Campos, Gustavo | EPIDEMIOLOGY AND BIOSTATISTICS | PLEIOR: A POWERFUL AND FAST TEST AND SOFTWARE FOR THE STUDY OF PLEIOTROPY IN SYSTEMS INVOLVING MANY TRAITS WITH BIOBANK-SIZED DATA |
| 232 | \$195,081 | HEALTH RESOURCES & SERVICES ADMINISTRATION | Edwards-Johnson, Jennifer | FAMILY MEDICINE, DEPARTMENT OF | DEVELOPMENT OF A CURRICULUM IN PRIMARY CARE OF UNDERSERVED PATIENTS |
| 233 | \$541,248 | NATIONAL INST OF HEALTH | Morishita, Masako | FAMILY MEDICINE, DEPARTMENT OF | REDUCING PARTICULATE MATTER-ASSOCIATED CARDIOVASCULAR HEALTH EFFECTS FOR SENIORS |
| 234 | \$53,855 | NATIONAL INST ON DRUG ABUSE | Vanderziel, Alyssa | FAMILY MEDICINE, DEPARTMENT OF | CANNABIS LEGALIZATION AND USE DURING PREGNANCY: A MICHIGAN STUDY |
| 235 | \$100,000 | MICHIGAN HEALTH ENDOWMENT FUND | Hirko, Kelly | HUMAN MEDICINE DEAN | TELEMEDICINE TO IMPROVE HEALTHCARE ACCESS FOR RURAL SENIORS |
| 236 | \$66,390 | NATIONAL INST OF HEALTH | Heyza, Joshua | INSTITUTE FOR QUANTITATIVE HEALTH | DEFINING THE MECHANISM OF SHIELDIN COMPLEX IN DNA END JOINING |
| 237 | \$7,825 | NATIONAL INST OF HEALTH | Wang, Ping | INSTITUTE FOR QUANTITATIVE HEALTH | MAGNETIC PARTICLE IMAGING OF TRANSPLANTED ISLETS IN TYPE 1 DIABETES ANIMAL MODELS |
| 238 | \$183,840 | NATIONAL INST OF FOOD & AGRICULTURE | Bates, Ronald | MEDICINE | MICHIGAN AGRABILITY |
| 239 | \$50,000 | CENTERS FOR DISEASE CONTROL & PREVENTION | Rosenman, Kenneth | MEDICINE | EVALUATING THE LONG-TERM IMPACT OF COVID-19 WITHIN WORKERS' COMPENSATION SYSTEMS |
| 240 | \$606,819 | NATIONAL INST OF HEALTH | Jeong, Jaewook | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | EPIGENETIC REGULATION OF RECEPTIVE ENDOMETRIUM |
| 241 | \$219,491 | NATIONAL CANCER INST | MacKeigan, Jeffrey | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | THERAPEUTIC POTENTIAL OF TARGETING DNA REPAIR DEFICIENCY IN TSC |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|--|-------------------------------------|--|---|
| 242 | \$36,815 | NATIONAL INST OF HEALTH | Marquardt, Ryan | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | THE ROLE OF ARID1A IN ENDOMETRIOSIS-RELATED INFERTILITY |
| 243 | \$170,078 | NATIONAL INST OF HEALTH | Meghea, Cristian | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | A SMARTPHONE INTERVENTION FOR PREGNANCY SMOKING CESSATION WITH PEER SUPPORT |
| 244 | \$20,000 | SOCIETY FOR REPRODUCTIVE INVESTIGATION | Paul, Emmanuel | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | ROLE OF MESENCHYMAL STEM CELLS ON UTERINE FIBROIDS |
| 245 | \$130,000 | SPECTRUM HEALTH SYSTEM | Roman, Leeanne | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | HEALTHY START INITIATIVE: ELIMINATING DISPARITIES IN PERINATAL HEALTH |
| 246 | \$205,542 | NATIONAL INST OF HEALTH | Teixeira, Jose | OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO | STEM CELL EPIGENETICS IN UTERINE FIBROIDS |
| 247 | \$416,266 | NATIONAL INST OF HEALTH | Chen, Bin | PEDIATRICS AND HUMAN DEVELOPMENT | REPURPOSE OPEN DATA TO DISCOVER THERAPEUTICS FOR UNDERSTUDIED DISEASES |
| 248 | \$60,000 | HEMOPHILIA FOUNDATION OF MICHIGAN | Jobe, Shawn | PEDIATRICS AND HUMAN DEVELOPMENT | MATERNAL CHILD HEALTH BUREAU (MCHB) GRANT |
| 249 | \$8,368 | BIOVERATIV THERAPEUTICS INC | Kulkarni, Roshni | PEDIATRICS AND HUMAN DEVELOPMENT | EFC16293 XTEND-1: A PHASE 3 OPEN LABEL, MULTICENTER STUDY OF THE SAFETY, EFFICACY, PHARMACOKINETICS OF RFVIIIIFC-VWF-XTEN;BVV001 IN PREVIOUSLY TREATED PATIENTS 12 YO OR OLDER WITH SEVERE HEMOPHILIA A |
| 250 | \$70,000 | CYSTIC FIBROSIS RESEARCH INC | Li, Xiaopeng | PEDIATRICS AND HUMAN DEVELOPMENT | TARGETING V-TYPE ATPASE IN HUMAN SMALL AIRWAYS FOR CF LUNG DISEASE TREATMENT |
| 251 | \$153,198 | SPECTRUM HEALTH SYSTEM | Prokop, Jeremy | PEDIATRICS AND HUMAN DEVELOPMENT | ENHANCING THE DIAGNOSTIC ACCURACY OF RAPID WHOLE GENOME SEQUENCING IN NEONATES WITH RARE OR UNKNOWN DISEASES |
| 252 | \$79,150 | CYSTIC FIBROSIS FOUNDATION | Thomas, Ryan | PEDIATRICS AND HUMAN DEVELOPMENT | MICHIGAN STATE UNIVERSITY CYSTIC FIBROSIS CENTER GRANT 2021 |
| 253 | \$204,716 | NATIONAL INST OF HEALTH | Upham, Brad | PEDIATRICS AND HUMAN DEVELOPMENT | HIGH-THROUGHPUT TOXICITY SCREENING OF ENVIRONMENTAL CONTAMINANTS AND DRUG CANDIDATES USING A NOVEL GAP JUNCTION INTERCELLULAR COMMUNICATION BIOASSAY IN LUNG AND LIVER CELLS |
| 254 | \$704,249 | US DEPT OF THE ARMY | Vogt, Daniel | PEDIATRICS AND HUMAN DEVELOPMENT | UNCOVERING MECHANISMS UNDERLYING COGNITIVE CHANGES AND SLEEP IN NF1 |
| 255 | \$383,687 | NATIONAL INST OF HEALTH | Galligan, James | PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE | IDENTIFICATION OF ENTERIC NERVE CIRCUITS CONTROLLING GUT MOTILITY |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|------------------------------|---------------|---|---|--|--|
| 256 | \$345,078 | NATIONAL INST OF HEALTH | Galligan, James | PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE | IDENTIFICATION OF ENTERIC NERVE CIRCUITS CONTROLLING GUT MOTILITY |
| 257 | \$568,220 | NATIONAL INST OF HEALTH | Moore, Anna | RADIOLOGY HUMAN MEDICINE | ANTI-MIR-10B NANODRUG FOR TREATMENT OF BREAST CANCER METASTASIS: STUDY IN COMPANION ANIMALS |
| 258 | \$55,000 | RESEARCH CORP FOR SCIENCE ADVANCEMENT | Wang, Ping | RADIOLOGY HUMAN MEDICINE | LIGHT-SHEET IMAGING OF 3D BIOPRINTED ISLET ORGANOID STRUCTURE AND FUNCTION |
| 259 | \$430,375 | NATIONAL INST OF HEALTH | Wang, Ping | RADIOLOGY HUMAN MEDICINE | IN VIVO TRACKING OF INHALED ACE2 TARGETING THERANOSTIC NANODRUGS DELIVERY TO THE LUNGS USING MAGNETIC PARTICLE IMAGING |
| 260 | \$60,000 | MICHIGAN COUNCIL FOR MATERNAL & CHILD HEALTH | Ford, Sabrina | THE INSTITUTE FOR HEALTH POLICY | MCMCH-MSU IHP |
| 261 | \$138,065 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Oberst, Kathleen | THE INSTITUTE FOR HEALTH POLICY | NURSING FACILITY DATA TRACKING |
| 262 | \$352,125 | NATIONAL INST OF HEALTH | Benskey, Matthew | TRANSLATIONAL NEUROSCIENCE | TARGETING COMPLEMENT COMPONENT 3 IN A MODEL OF SYNUCLEINOPATHY |
| 263 | \$1,376,153 | REGENXBIO INC | Collier, Kathy | TRANSLATIONAL NEUROSCIENCE | DEVELOPMENT AND FUNCTIONAL TESTING OF MIRNA CAV1.3 KNOCKDOWN IN STRIATAL MSNS AND SNC DA NEURONS |
| 264 | \$568,415 | NATIONAL INST OF HEALTH | Collier, Kathy | TRANSLATIONAL NEUROSCIENCE | GENETIC SILENCING OF STRIATAL CAV1.3 CALCIUM CHANNELS AS A POTENT ANTIDYSKINETIC THERAPY FOR PD |
| 265 | \$595,649 | DIGNITY HEALTH - ST. JOSEPH'S HOSPITAL AND MEDICAL CENTER | Counts, Scott | TRANSLATIONAL NEUROSCIENCE | NEUROFIBRILLARY TANGLE EVOLUTION IN MILD COGNITIVE IMPAIRMENT |
| 266 | \$194,515 | WAYNE STATE UNIV | Counts, Scott | TRANSLATIONAL NEUROSCIENCE | MAGNETIC SUSCEPTIBILITY AND VOLUME OF MICROVASCULAR LESIONS AS PROOF-OF-CONCEPT BIOMARKERS FOR MIXED DEMENTIA |
| 267 | \$589,482 | NATIONAL INST OF HEALTH | Gordon, Marcia | TRANSLATIONAL NEUROSCIENCE | GEROSCIENCE APPROACHES TO MITIGATE TAUOPATHY IN AGED MOUSE BRAIN |
| 268 | \$182,093 | UNIVERSITY OF NORTH TEXAS | Morgan, David | TRANSLATIONAL NEUROSCIENCE | DISCOVERY OF FUNCTIONALLY SELECTIVE ALZHEIMER'S DISEASE THERAPEUTICS |
| 269 | \$491,334 | NATIONAL INST OF HEALTH | Sortwell, Caryl | TRANSLATIONAL NEUROSCIENCE | STN DBS EFFECTS ON NEUROINFLAMMATION AND DEGENERATION INDUCED BY ALPHA-SYNUCLEIN INCLUSIONS |
| JAMES MADISON COLLEGE | | | | | |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----------------------------------|-----------|-------------------------------------|-------------------------------------|------------------------------------|---|
| 270 | \$24,681 | ELECTRIC POWER RESEARCH INST | Moore, Sharlissa | JAMES MADISON COLLEGE DEAN | SOLAR PANEL AND LAND USE WHITE PAPER |
| LYMAN BRIGGS COLLEGE | | | | | |
| 271 | \$45,810 | NATIONAL SCIENCE FOUNDATION | Brandt, Marisa | LYMAN BRIGGS DEAN | COLLABORATIVE RESEARCH: COLLABORATIVE RESEARCH AND EDUCATION ARCHITECTURE FOR TRANSFORMATIVE ENGAGEMENT WITH STS (CREATE/STS) |
| COLLEGE OF MUSIC | | | | | |
| 272 | \$20,000 | PNC FOUNDATION | Demott, Jaime | COMMUNITY MUSIC SCHOOL | EARLY CHILDHOOD MUSIC WITH GROW UP GREAT |
| 273 | \$25,000 | CHRISTOPHER & DANA REEVE FOUNDATION | Demott, Jaime | COMMUNITY MUSIC SCHOOL | INCREASING ACCESS TO FOSTER ENGAGEMENT AND SOCIAL CONNECTEDNESS DURING COVID-19 TIMES |
| 274 | \$10,000 | AT&T FOUNDATION | Woodward, Jill | COMMUNITY MUSIC SCHOOL | AT&T FOUNDATION VIRTUAL SUMMER PROGRAM AWARD |
| 275 | \$65,000 | ERB FAMILY FOUNDATION | Woodward, Jill | COMMUNITY MUSIC SCHOOL | MSU COMMUNITY MUSIC SCHOOL-DETROIT JAZZ EDUCATION AND MENTORSHIP PROGRAM |
| COLLEGE OF NATURAL SCIENCE | | | | | |
| 276 | \$72,265 | NATIONAL SCIENCE FOUNDATION | Della Penna, Dean | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | SUPPLEMENT TO: RESEARCH-PGR: A GENOME-LEVEL APPROACH TO BALANCING THE VITAMIN CONTENT OF MAIZE GRAIN |
| 277 | \$255,537 | NATIONAL SCIENCE FOUNDATION | Dickson, Alexander | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | KINETICS-DRIVEN DRUG DISCOVERY USING PERSISTENT HOMOLOGY, RARE-EVENT MOLECULAR DYNAMICS AND EXPERIMENTAL DATA |
| 278 | \$210,074 | UNIVERSITY OF NORTH TEXAS | Grotewold, Erich | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | FUNCTIONAL ANALYSIS OF CANDIDATE GENES INVOLVED IN OIL STORAGE AND STABILITY IN PENNYCRESS |
| 279 | \$228,260 | NATIONAL SCIENCE FOUNDATION | Kuo, Min | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | TRIACYLGLYCEROL AND LIFESPAN CONTROL IN A MODEL ORGANISM SACCHAROMYCES CEREVISIAE |
| 280 | \$292,577 | NATIONAL INST OF HEALTH | Last, Robert | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | PLANT BIOTECHNOLOGY FOR HEALTH AND SUSTAINABILITY |
| 281 | \$200,000 | AG SPECTRUM CO | Lundquist, Peter | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | ADAPTIVE BIOCHEMICAL AND PHYSIOLOGICAL RESPONSES OF MAIZE HYBRID LINES TO MANAGED VARIABLES UNDER ABIOTIC STRESS |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|-----------------------------------|-------------------------------------|--|--|
| 282 | \$181,445 | NATIONAL SCIENCE FOUNDATION | Parent, Kristin | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | CAREER: UNCOVERING THE STRANGE BIOLOGY OF ELUSIVE SHIGELLA PHAGES AND THEIR ROLES IN HORIZONTAL GENE TRANSFER |
| 283 | \$730,527 | NATIONAL INST OF HEALTH | Quinn, Robert | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | DETERMINING HOW A DYNAMIC MICROBIOME CONTRIBUTES TO CYSTIC FIBROSIS LUNG DISEASE |
| 284 | \$32,967 | NATIONAL INST OF HEALTH | Raicu, Ana-Maria | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | THE RETINOBLASTOMA COREPRESSOR FAMILY: PRECISION TARGETING FOR DISCERNING GENE REGULATORY MECHANISMS IN THE DROSOPHILA EYE |
| 285 | \$150,000 | ARNOLD & MABEL BECKMAN FOUNDATION | TerAvest, Michaela | BIOCHEMISTRY MOLECULAR BIOLOGY CNS | A BACTERIAL CHASSIS TO CONVERT ELECTRICITY AND CARBON DIOXIDE INTO SUSTAINABLE FUELS |
| 286 | \$190,663 | US DEPT OF ENERGY | Beck, Warren | CHEMISTRY | LIGHT HARVESTING IN SEMICONDUCTOR QUANTUM DOTS |
| 287 | \$186,491 | US DEPT OF ENERGY | Beck, Warren | CHEMISTRY | ENERGY TRANSFER AND RADIATIONLESS DECAY IN LIGHT-HARVESTING PROTEINS |
| 288 | \$307,271 | NATIONAL INST OF HEALTH | Borhan, Babak | CHEMISTRY | PROTEIN/CHROMOPHORE INTERACTIONS VIA PROTEIN DESIGN: INTERROGATION AND APPLICATION |
| 289 | \$33,922 | NATIONAL SCIENCE FOUNDATION | Dantus, Marcos | CHEMISTRY | COVID SUPPLEMENT QLC: EAGER: QUANTUM CONTROL OF ENERGY TRANSFER PATHWAYS AND CHEMICAL REACTIONS |
| 290 | \$476,186 | NATIONAL SCIENCE FOUNDATION | Harel, Elad | CHEMISTRY | MEASURING ELECTRONIC COHERENCE AT THE SINGLE-MOLECULE LEVEL WITH NONLINEAR COHERENT SPECTROSCOPY |
| 291 | \$75,000 | OFFICE OF NAVAL RESEARCH | Harel, Elad | CHEMISTRY | ULTRASENSITIVE AND RAPID MULTI-DIMENSIONAL SPECTRAL SENSING AT STANDOFF DISTANCES BY NON-UNIFORM SAMPLING AND STATISTICAL RECONSTRUCTION |
| 292 | \$212,182 | NATIONAL INST OF HEALTH | Huang, Xuefei | CHEMISTRY | ENABLING SYNTHESIS AND BIOLOGICAL STUDIES OF HOMOGENEOUS HEPARAN SULFATE AND CHONDROITIN SULFATE GLYCO-POLYPEPTIDES AND PROTEOGLYCANS |
| 293 | \$300,000 | NATIONAL INST OF HEALTH | Huang, Xuefei | CHEMISTRY | SYNTHETIC GLYCAN CONJUGATES WITH BACTERIOPHAGE QBETA FOR BROAD SPECTRUM ANTI-SALMONELLA VACCINES |
| 294 | \$529,758 | NATIONAL INST OF HEALTH | Merz, Kenneth | CHEMISTRY | MODELING TRANSITION METAL ION BINDING TO PROTEINS |
| 295 | \$224,943 | US DEPT OF ENERGY | Smith, Milton | CHEMISTRY | ELECTROCATALYTIC OXIDATION OF AMMONIA FOR ENERGY CONVERSION AND STORAGE |
| 296 | \$116,679 | OFFICE OF NAVAL RESEARCH | Swain, Greg | CHEMISTRY | INHIBITING GALVANIC CORROSION OF ALUMINUM ALLOYS JOINED WITH CARBON FIBER COMPOSITES |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|--|-------------------------------------|-------------------------------------|---|
| 297 | \$9,000 | US ARMY RESEARCH OFFICE | Swain, Greg | CHEMISTRY | SPECTROELECTROCHEMICAL STUDIES OF REDOX REACTIONS AND ELECTRIFIED INTERFACES AT NANOSTRUCTURED CARBON ELECTRODES IN ROOM TEMPERATURE IONIC LIQUIDS |
| 298 | \$428,566 | NATIONAL INST OF HEALTH | Tepe, Jetze | CHEMISTRY | SMALL MOLECULE INDUCED PROTEOLYTIC DESTRUCTION OF INTRINSICALLY DISORDERED PROTEINS |
| 299 | \$357,254 | NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES | Weliky, David | CHEMISTRY | SOLID-STATE NMR OF VIRAL FUSION PEPTIDES AND PROTEINS |
| 300 | \$170,766 | REATA PHARMACEUTICALS | Wilson, Angela | CHEMISTRY | MEDICINAL CHEMISTRY |
| 301 | \$454,075 | NATIONAL SCIENCE FOUNDATION | Wilson, Angela | CHEMISTRY | MOLECULAR-LEVEL INSIGHT INTO PFAS ADSORPTION AND DYNAMICS IN THE ENVIRONMENT |
| 302 | \$66,000 | UNIVERSITY OF IOWA | Bazavov, Alexei | COMPUTATIONAL MATH SCI AND ENGR CNS | FOUNDATIONS OF QUANTUM COMPUTING FOR GAUGE THEORIES AND QUANTUM GRAVITY |
| 303 | \$79,896 | NATIONAL SCIENCE FOUNDATION | Hirn, Matthew | COMPUTATIONAL MATH SCI AND ENGR CNS | CAREER: UNDERSTANDING INVARIANT CONVOLUTIONAL NEURAL NETWORKS THROUGH MANY PARTICLE PHYSICS |
| 304 | \$72,563 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Hirn, Matthew | COMPUTATIONAL MATH SCI AND ENGR CNS | MAKING QUANTUM COMPUTERS LESS NOISY AND MORE USEFUL |
| 305 | \$360,120 | NATIONAL INST OF HEALTH | Krishnan, Arjun | COMPUTATIONAL MATH SCI AND ENGR CNS | RESOLVING AND UNDERSTANDING THE GENOMIC BASIS OF HETEROGENEOUS COMPLEX TRAITS AND DISEASE |
| 306 | \$63,338 | NATIONAL SCIENCE FOUNDATION | Lei, Huan | COMPUTATIONAL MATH SCI AND ENGR CNS | MACHINE-LEARNING BASED MODELING OF MULTISCALE DYNAMIC SYSTEMS WITH NON-MARKOVIAN STATE-DEPENDENT MEMORY |
| 307 | \$70,458 | NATIONAL INST OF HEALTH | Mancuso, Christopher | COMPUTATIONAL MATH SCI AND ENGR CNS | INCORPORATING MOLECULAR NETWORK KNOWLEDGE INTO PREDICTIVE DATA-DRIVEN MODELS |
| 308 | \$325,001 | NATIONAL INST OF HEALTH | Wang, Jianrong | COMPUTATIONAL MATH SCI AND ENGR CNS | STATISTICAL MODELING OF LONG-RANGE CHROMATIN INTERACTIONS ON GENE REGULATION AND UNDERLYING MOLECULAR MECHANISMS |
| 309 | \$167,011 | NATIONAL SCIENCE FOUNDATION | Wang, Jianrong | COMPUTATIONAL MATH SCI AND ENGR CNS | CAREER: DELINEATE CONTEXT-SPECIFIC GENE REGULATION IN 3D CHROMATIN SPACE |
| 310 | \$259,724 | NATIONAL INST OF HEALTH | Bayer, Irene | CREATE FOR STEM | HEALTH IN OUR HANDS: BUILDING AND SUSTAINING STUDENT ENGAGEMENT IN GENOMIC AND ENVIRONMENTAL HEALTH SCIENCES THROUGH A COMMUNITY-SCHOOL PARTNERSHIP |
| 311 | \$75,484 | NATIONAL SCIENCE FOUNDATION | Libarkin, Julie | CREATE FOR STEM | PROJECT INCUBATION: BUILDING CAPACITY FOR ETHICAL COMMUNICATION BETWEEN VULNERABLE FENCELINE COMMUNITIES, AND ENVIRONMENTAL AGENCIES |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-------------|--|-------------------------------------|----------------------------------|---|
| 312 | \$194,523 | ECOSYSTEM SERVICES MARKET CONSORTIUM | Basso, Bruno | EARTH AND ENVIRONMENTAL SCIENCES | NOVEL SURROGATE MEASUREMENTS FOR ESTIMATING GHG EMISSIONS AND ECOSYSTEMS SERVICES THROUGH MACHINE LEARNING USING LONG-TERM EMPIRICAL DATA AND REMOTE SENSING IMAGERY |
| 313 | \$120,000 | WATTTIME | Basso, Bruno | EARTH AND ENVIRONMENTAL SCIENCES | ESTIMATING COUNTRY-LEVEL DIRECT N2O EMISSIONS FROM MANAGED AGRICULTURAL SOILS |
| 314 | \$304,714 | NATIONAL SCIENCE FOUNDATION | Burke, Janet | EARTH AND ENVIRONMENTAL SCIENCES | DEVELOPMENT AND APPLICATION OF THE FORAMINIFERAL I/CA PALEOREDOX PROXY |
| 315 | \$311,434 | NATIONAL SCIENCE FOUNDATION | Freymueller, Jeffrey | EARTH AND ENVIRONMENTAL SCIENCES | COLLABORATIVE RESEARCH: THE M7.8 SIMEONOF EARTHQUAKE: UNTANGLING SLIP FROM SECONDS TO YEARS ACROSS THE EDGE OF THE SHUMAGIN SEISMIC GAP |
| 316 | \$13,014 | PLANETARY SCIENCE INSTITUTE | Jacobson, Seth | EARTH AND ENVIRONMENTAL SCIENCES | THE SUBLIMATION-DRIVEN MIGRATION OF SMALL TERRESTRIAL PLANETS |
| 317 | \$141,886 | US DEPT OF STATE | Mackey, Kevin | EARTH AND ENVIRONMENTAL SCIENCES | RECOVERY, DIGITIZATION, AND ANALYSIS OF SOVIET PEACEFUL NUCLEAR EXPLOSION SEISMOGRAMS |
| 318 | \$7,675 | NATIONAL SCIENCE FOUNDATION | Rooney, Tyrone | EARTH AND ENVIRONMENTAL SCIENCES | COLLABORATIVE RESEARCH: CONSTRAINING THE TEMPORAL EVOLUTION OF MANTLE PLUME CONTRIBUTIONS TO MAGMATISM IN THE TURKANA DEPRESSION |
| 319 | \$114,269 | NATIONAL SCIENCE FOUNDATION | Wei, Songqiao | EARTH AND ENVIRONMENTAL SCIENCES | COLLABORATIVE RESEARCH: INTERACTIONS BETWEEN THE TONGA-LAU SUBDUCTION SYSTEM AND THE SAMOAN PLUME |
| 320 | \$80,200 | ANIMAL & PLANT HEALTH INSPECTION SERVICE | Cognato, Anthony | ENTOMOLOGY NATURAL SCIENCE | CONTINUATION OF MORPHOLOGICAL AND DNA DIAGNOSTIC TOOLS FOR LARVAL AND ADULT SOFTWOOD BORING BEETLES (CERAMBYCIDAE): COMPLETION AND EXPANSION OF LARVAL AND ADULT DIAGNOSTIC IDENTIFICATION TOOLS. |
| 321 | \$37,812 | ANIMAL & PLANT HEALTH INSPECTION SERVICE | Cognato, Anthony | ENTOMOLOGY NATURAL SCIENCE | XYLEBORINE AMBROSIA BEETLE ID TOOLS |
| 322 | \$1,425,634 | NATIONAL SCIENCE FOUNDATION | White, Peter | ENTOMOLOGY NATURAL SCIENCE | MOTHEd - AUTHENTIC SCIENCE FOR ELEMENTARY AND MIDDLE SCHOOL STUDENTS |
| 323 | \$17,386 | NATIONAL SCIENCE FOUNDATION | Boughman, Janette | INTEGRATIVE BIOLOGY | DIMENSIONS: COLLABORATIVE RESEARCH: DIVERSIFICATION OF SENSORY SYSTEMS IN NOVEL HABITAT: ENHANCED VISION OR COMPENSATION IN OTHER MODALITIES? |
| 324 | \$81,396 | NATIONAL SCIENCE FOUNDATION | Braasch, Ingo | INTEGRATIVE BIOLOGY | EDGE FGT: FUNCTIONAL GENOMICS IN GAR - DISCOVERY TOOLS FOR MAJOR VERTEBRATE TRANSITIONS |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-------------|-------------------------------------|-------------------------------------|------------------------------------|---|
| 325 | \$29,021 | MICHIGAN ENVIRONMENTAL COUNCIL | Doll, Julie | KELLOGG BIOLOGICAL STATION NAT SCI | SUSTAINABLE AGRICULTURE IN MICHIGAN BY INCORPORATING SOIL HEALTH |
| 326 | \$165,000 | NATIONAL INST OF FOOD & AGRICULTURE | Evans, Sarah | KELLOGG BIOLOGICAL STATION NAT SCI | USING SOIL MICROBIAL FUNCTIONAL TRAITS AND TRADE-OFFS TO EXPLAIN SOIL CARBON STORAGE AND CROP RESPONSE TO DROUGHT |
| 327 | \$546,852 | INDIANA UNIV | Evans, Sarah | KELLOGG BIOLOGICAL STATION NAT SCI | CNH2-L: RESILIENCE TO DROUGHT OR A DROUGHT OF RESILIENCE? THE POTENTIAL FOR INTERACTIONS AND FEEDBACKS BETWEEN HUMAN ADAPTATION AND ECOLOGICAL ADAPTATION |
| 328 | \$33,800 | NATIONAL SCIENCE FOUNDATION | Evans, Sarah | KELLOGG BIOLOGICAL STATION NAT SCI | COLLABORATIVE RESEARCH: MICROBES, MEMORY, AND MOISTURE: LEVERAGING DROUGHTNET TO PREDICT HOW MICROBIAL MOISTURE RESPONSES WILL IMPACT CARBON CYCLING |
| 329 | \$62,391 | NATIONAL SCIENCE FOUNDATION | Fitzpatrick, Sarah | KELLOGG BIOLOGICAL STATION NAT SCI | ROA SUPPLEMENT TO BEE: TESTING ECO-EVOLUTIONARY EFFECTS OF GENETIC DRIFT AND GENE FLOW IN STRESSFUL ENVIRONMENTS |
| 330 | \$6,809 | DUKE UNIV | Haddad, Nicholas | KELLOGG BIOLOGICAL STATION NAT SCI | MANAGING METAPOPOPULATIONS OF THREATENED SPECIES ACROSS JURISDICTIONAL BOUNDARIES: QUANTIFYING EFFECTS OF CLIMATE CHANGE, ENVIRONMENTAL SYNCHRONY, DISPERSAL, AND CORRIDORS |
| 331 | \$464,000 | US FISH & WILDLIFE SERVICE | Haddad, Nicholas | KELLOGG BIOLOGICAL STATION NAT SCI | POWESHIEK SKIPPERLING EX-SITU AND GENOMIC ANALYSIS |
| 332 | \$1,127,000 | NATIONAL SCIENCE FOUNDATION | Haddad, Nicholas | KELLOGG BIOLOGICAL STATION NAT SCI | LTER: MECHANISMS OF RESILIENCE IN AGRICULTURAL LANDSCAPES |
| 333 | \$425,872 | AGRICULTURAL RESEARCH SERVICE | Robertson, GPhilip | KELLOGG BIOLOGICAL STATION NAT SCI | COLLABORATIVE LONG-TERM AGRICULTURAL RESEARCH (LTAR): ECOSYSTEM SERVICES FROM ROW-CROP AGRICULTURE |
| 334 | \$161,607 | NATIONAL SCIENCE FOUNDATION | Hedden, Matthew | MATHEMATICS | FLOER HOMOLOGY, CONCORDANCE, AND COMPLEX CURVES |
| 335 | \$436,377 | NATIONAL SCIENCE FOUNDATION | Hedden, Matthew | MATHEMATICS | TOPOLOGY AND GEOMETRY AT THE INTERFACE OF DIMENSIONS 3 AND 4 |
| 336 | \$81,958 | NATIONAL SCIENCE FOUNDATION | Kachkovskiy, Ilya | MATHEMATICS | CAREER: QUANTUM SYSTEMS WITH DETERMINISTIC DISORDER |
| 337 | \$314,000 | NATIONAL SCIENCE FOUNDATION | Kulkarni, Rajesh | MATHEMATICS | NONCOMMUTATIVE ALGEBRAS AND THEIR INTERACTIONS WITH ALGEBRAIC AND ARITHMETIC GEOMETRY |
| 338 | \$365,000 | NATIONAL SCIENCE FOUNDATION | Shapiro, Michael | MATHEMATICS | COLLABORATIVE RESEARCH: GENERALIZED CLUSTER STRUCTURES ON POISSON VARIETIES AND APPLICATIONS |
| 339 | \$46,268 | NATIONAL SCIENCE FOUNDATION | Wake, Preston | MATHEMATICS | EXPLICIT GALOIS DEFORMATION THEORY, MODULAR FORMS, AND IWASAWA THEORY |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|---------------------------------|-------------------------------------|---|--|
| 340 | \$83,449 | NATIONAL SCIENCE FOUNDATION | Wang, Zhenqi | MATHEMATICS | CAREER: NEW METHODS AND APPLICATIONS FOR SMOOTH RIGIDITY OF ALGEBRAIC ACTIONS |
| 341 | \$318,268 | NATIONAL INST OF HEALTH | Wei, Guowei | MATHEMATICS | SYNERGISTIC INTEGRATION OF TOPOLOGY AND MACHINE LEARNING FOR THE PREDICTIONS OF PROTEIN-LIGAND BINDING AFFINITIES AND MUTATION IMPACTS |
| 342 | \$189,617 | UNIVERSITY OF CHICAGO | Crosson, Sean | MICROBIOLOGY MOLECULAR GENETICS CNS | HOST AND MICROBIAL BASIS OF HUMAN ULCERATIVE COLITIS AND POUCHITIS: IDENTIFICATION, ROLE, MECHANISMS, AND RESOURCE DEVELOPMENT OF HOST SUSCEPTIBILITY AND PATHOBIONT FACTORS |
| 343 | \$8,235 | NATIONAL INST OF HEALTH | Hammer, Neal | MICROBIOLOGY MOLECULAR GENETICS CNS | 27TH ANNUAL MIDWEST MICROBIAL PATHOGENESIS CONFERENCE (MMPC) |
| 344 | \$439,938 | NATIONAL SCIENCE FOUNDATION | Shade, Ashley | MICROBIOLOGY MOLECULAR GENETICS CNS | COLLABORATIVE RESEARCH: MICROBIAL PROCESSES AND CARBON TRANSFORMATION IN THE THAWING PERMAFROST |
| 345 | \$391,250 | NATIONAL INST OF HEALTH | Zheng, Yong-Hui | MICROBIOLOGY MOLECULAR GENETICS CNS | THE ROLE OF SERINC5 IN HIV-1 REPLICATION |
| 346 | \$378,842 | NATIONAL INST OF HEALTH | Atchison, William | NEUROSCIENCE PROGRAM | BRIDGE TO THE PHD IN NEUROSCIENCE |
| 347 | \$40,000 | RADIABEAM TECHNOLOGIES INC | Berz, Martin | PHYSICS ASTRONOMY | COMPACT, PORTABLE RACETRACK CYCLOTRON FOR HEAVY-ION RADIATION TESTING OF ELECTRONICS |
| 348 | \$459,239 | NATIONAL SCIENCE FOUNDATION | Chomiuk, Laura | PHYSICS ASTRONOMY | CONSTRAINING TYPE IA SUPERNOVA PROGENITORS VIA THEIR ENVIRONMENTS |
| 349 | \$500,688 | OFFICE OF NAVAL RESEARCH | Cocker, Tyler | PHYSICS ASTRONOMY | TERAHERTZ SCANNING TUNNELING MICROSCOPE FOR NOVEL ULTRAFAST IMAGING CONCEPTS |
| 350 | \$108,000 | OFFICE OF NAVAL RESEARCH | Cocker, Tyler | PHYSICS ASTRONOMY | RESOLVING FEW-FEMTOSECOND ELECTRON DYNAMICS IN GRAPHENE NANORIBBONS WITH MULTI-TERAHERTZ SCANNING TUNNELING MICROSCOPY |
| 351 | \$89,688 | UNIVERSITY OF PITTSBURGH | Cocker, Tyler | PHYSICS ASTRONOMY | TOPOLOGICAL SPIN QUBITS BASED ON GRAPHENE NANORIBBONS |
| 352 | \$35,300 | NATIONAL SCIENCE FOUNDATION | Comstock, Matthew | PHYSICS ASTRONOMY | NSF SUPPLEMENT TO: INVESTIGATION OF RNA-PROCESSING PROTEIN INTERACTIONS AND DYNAMICS WITH SIMULTANEOUS HIGH-RESOLUTION TWEEZERS AND FLUORESCENCE (1919439) |
| 353 | \$84,537 | UNIVERSITY OF WISCONSIN MADISON | DeYoung, Tyce | PHYSICS ASTRONOMY | MANAGEMENT AND OPERATIONS OF THE ICECUBE NEUTRINO OBSERVATORY 2021-2026 |
| 354 | \$11,279 | SPACE TELESCOPE SCIENCE INST | Donahue, Megan | PHYSICS ASTRONOMY | TESTING THE LIMITS OF AGN FEEDBACK IN STARBURST AND QSO CENTRAL CLUSTER GALAXIES |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|------------------------------------|-------------------------------------|----------------------------|---|
| 355 | \$415,000 | NATIONAL SCIENCE FOUNDATION | Huston, Joey | PHYSICS ASTRONOMY | INVESTIGATIONS IN PROTON-PROTON COLLISIONS AT THE LARGE HADRON COLLIDER |
| 356 | \$139,992 | US DEPT OF ENERGY | Ke, Xianglin | PHYSICS ASTRONOMY | TOPOLOGICAL MAGNONS AND TOPOLOGICAL ELECTRONIC PROPERTIES IN METALLIC KAGOME MAGNETS |
| 357 | \$63,212 | NATIONAL SCIENCE FOUNDATION | Lin, Huey-Wen | PHYSICS ASTRONOMY | AGEP SUPPLEMENT TO CAREER: CONSTRAINING PARTON DISTRIBUTION FUNCTIONS FOR NEW-PHYSICS SEARCHES |
| 358 | \$53,310 | COLORADO SCHOOL OF MINES | Maghrebi, Mohammad | PHYSICS ASTRONOMY | NON-EQUILIBRIUM STEADY STATES AND DYNAMICS IN A TRAPPED-ION QUANTUM SIMULATOR WITH ENGINEERED DISSIPATION |
| 359 | \$50,000 | EEROQ INC | Pollanen, Johannes | PHYSICS ASTRONOMY | PHASE 3: ON-CHIP CHARGE SENSOR FOR SINGLE ELECTRON DETECTION |
| 360 | \$226,180 | UNIVERSITY OF CHICAGO | Whitehorn, Nathan | PHYSICS ASTRONOMY | SOUTH POLE TELESCOPE OPERATIONS AND DATA PROJECTS |
| 361 | \$380,566 | NATIONAL INST OF HEALTH | Busik, Julia | PHYSIOLOGY NATURAL SCIENCE | ANTI-CERAMIDE IMMUNOTHERAPY FOR DIABETIC RETINOPATHY |
| 362 | \$34,879 | NATIONAL INST OF HEALTH | Crandall, Shane | PHYSIOLOGY NATURAL SCIENCE | MOTOR FEEDBACK CONTROL OF LAYER SIX CIRCUITS |
| 363 | \$38,723 | NATIONAL INST OF HEALTH | Gulbransen, Brian | PHYSIOLOGY NATURAL SCIENCE | THE ROLE OF ENTERIC GLIA IN VISCERAL HYPERSENSITIVITY |
| 364 | \$345,122 | NATIONAL INST OF HEALTH | Gulbransen, Brian | PHYSIOLOGY NATURAL SCIENCE | REGULATION OF ENTERIC MOTOR NEUROCIRCUITS BY ENTERIC GLIA IN HEALTH AND DISEASE |
| 365 | \$394,850 | NATIONAL INST OF HEALTH | Laumet, Geoffroy | PHYSIOLOGY NATURAL SCIENCE | NEUROIMMUNE INTERACTIONS REGULATING THE BALANCE BETWEEN REMISSION AND RELAPSE OF PAIN |
| 366 | \$23,334 | NATIONAL INST OF HEALTH | Perez-Bonilla, Patricia | PHYSIOLOGY NATURAL SCIENCE | ROLE OF VTA NEUROTENSIN RECEPTOR-1 EXPRESSING NEURONS IN ENERGY BALANCE |
| 367 | \$90,801 | BAYLOR COLLEGE OF MEDICINE | Robison, Alfred | PHYSIOLOGY NATURAL SCIENCE | ROLE OF DELTAFOSB IN HIPPOCAMPAL GENE EXPRESSION AND FUNCTION IN NEUROLOGICAL DISEASE |
| 368 | \$169,616 | UNIVERSITY OF TEXAS MEDICAL BRANCH | Robison, Alfred | PHYSIOLOGY NATURAL SCIENCE | SMALL MOLECULE MODULATORS OF ΔFOSB FUNCTION |
| 369 | \$55,356 | NATIONAL SCIENCE FOUNDATION | Brudvig, Lars | PLANT BIOLOGY CNS | LTREB RENEWAL: COLLABORATIVE RESEARCH: UNDERSTANDING THE STRENGTH, DURATION, AND STABILITY OF CONNECTIVITY EFFECTS ON COMMUNITY DIVERSITY |
| 370 | \$71,238 | NATIONAL SCIENCE FOUNDATION | Brudvig, Lars | PLANT BIOLOGY CNS | RESOLVING DRIVERS OF VARIATION IN GRASSLAND COMMUNITY ASSEMBLY AND RESTORATION |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|---------------------------|---------------|-------------------------------|---|---------------------------------------|--|
| 371 | \$414,286 | 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 |
| 372 | \$2,062,618 | US DEPT OF ENERGY | Schnell, Danny | PLANT BIOLOGY CNS | A SYSTEMS APPROACH TO INCREASING CARBON FLUX TO SEED OIL FOR BIOFUELS AND BIOPRODUCTS PRODUCTION IN CAMELINA SATIVA |
| 373 | \$1,400,000 | NATIONAL SCIENCE FOUNDATION | Shiu, Shinhan | PLANT BIOLOGY CNS | TRTECH-PGR: CONNECTING SEQUENCES TO FUNCTIONS WITHIN AND BETWEEN SPECIES THROUGH COMPUTATIONAL MODELING AND EXPERIMENTAL STUDIES |
| 374 | \$57,611 | AGRICULTURAL RESEARCH SERVICE | Trail, Frances | PLANT BIOLOGY CNS | ELUCIDATING FUNGAL PROCESSES THAT EVADE HOST RESISTANCE AND CHEMICAL CONTROL - ELUCIDATING MODES OF INFECTION THAT EVADE HOST RESISTANCE AND CHEMICAL CONTROL |
| 375 | \$5,150 | US DEPT OF ENERGY | Brandizzi, Federica | PLANT RESEARCH LABORATORY NAT SCIENCE | 31ST INTERNATIONAL CONFERENCE ON ARABIDOPSIS RESEARCH (ICAR) |
| 376 | \$176,152 | US DEPT OF ENERGY | Kerfeld, Cheryl | PLANT RESEARCH LABORATORY NAT SCIENCE | ELUCIDATING THE MECHANISM OF OCP-MEDIATED ANTENNA QUENCHING |
| 377 | \$246,931 | US DEPT OF ENERGY | Kramer, David | PLANT RESEARCH LABORATORY NAT SCIENCE | THE DYNAMIC ENERGY BUDGET OF PHOTOSYNTHESIS |
| 378 | \$98,020 | NATIONAL SCIENCE FOUNDATION | Montgomery, Beronda | PLANT RESEARCH LABORATORY NAT SCIENCE | ASSESSING INSTITUTIONAL ASSETS, VULNERABILITIES, AND SYNERGIES AND USING A STEM MENTORING ECOSYSTEM FRAMEWORK: A MULTI-INSTITUTION, INTERDISCIPLINARY WORKSHOP |
| 379 | \$232,056 | NATIONAL SCIENCE FOUNDATION | Sharkey, Thomas | PLANT RESEARCH LABORATORY NAT SCIENCE | ISOPRENE EMISSION FROM PLANTS: AN EVOLUTIONARY BALANCING ACT |
| 380 | \$53,529 | NATIONAL SCIENCE FOUNDATION | Walker, Berkley | PLANT RESEARCH LABORATORY NAT SCIENCE | NSF REPS SUPPLEMENT TO 2015843: COLLABORATIVE RESEARCH: INVESTIGATING THE ROLE OF CYTOSOLIC ONE-CARBON METABOLISM IN PHOTORESPIRATION |
| 381 | \$32,083 | NATIONAL SCIENCE FOUNDATION | Hong, Hyokyoung | STATISTICS PROBABILITY | IMPACT OF MOLECULAR BIOMARKERS ON SURVIVAL OUTCOMES: SIGNAL DETECTION, MODEL SELECTION, AND STATISTICAL INFERENCE IN HIGH-DIMENSIONAL SETTINGS |
| 382 | \$40,980 | NATIONAL SCIENCE FOUNDATION | Maiti, Tapabrata | STATISTICS PROBABILITY | COLLABORATIVE RESEARCH: VARIATIONAL INFERENCE APPROACH TO COMPUTER MODEL CALIBRATION, UNCERTAINTY QUANTIFICATION, SCALABILITY AND ROBUSTNESS |
| 383 | \$45,028 | NATIONAL SCIENCE FOUNDATION | Sung, Chih-Li | STATISTICS PROBABILITY | COLLABORATIVE RESEARCH: EFFICIENT BAYESIAN GLOBAL OPTIMIZATION WITH APPLICATIONS TO DEEP LEARNING AND COMPUTER EXPERIMENTS |
| COLLEGE OF NURSING | | | | | |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|--|-----------|---|-------------------------------------|---------------------------------|--|
| 384 | \$433,526 | HEALTH RESOURCES & SERVICES ADMINISTRATION | Dontje, Katherine | NURSING | INCREASING ACCESS, RECRUITMENT AND RETENTION OF SEXUAL ASSAULT EXAMINERS |
| 385 | \$17,997 | HEALTH RESOURCES & SERVICES ADMINISTRATION | Lourens, Gayle | NURSING | NURSE ANESTHETIST TRAINEESHIP |
| 386 | \$48,250 | BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION | Wu, Horng-Shiuann | NURSING | CONSEQUENCES OF COVID-19: POST-COVID SYMPTOMS AND MANAGEMENT |
| COLLEGE OF OSTEOPATHIC MEDICINE | | | | | |
| 387 | \$39,177 | UNIVERSITY OF ROCHESTER | Seydel, Karl | COLLEGE OF OSTEOPATHIC MEDICINE | MRI ANCILLARY STUDY OF MALARIA FEVER CONTROL RCT |
| 388 | \$5,550 | REVANCE THERAPEUTICS INC | Goudreau, John | NEUROLOGY AND OPHTHALMOLOGY COM | A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL GROUP, MULTI-CENTER TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF A SINGLE TREATMENT OF DAXIBOTULINUMTOXINA FOR INJECTION IN ADULTS WIT |
| 389 | \$7,600 | AEON BIOPHARMA, INC. | Goudreau, John | NEUROLOGY AND OPHTHALMOLOGY COM | A PHASE 2, RANDOMIZED, DOUBLE-BLIND, MULTICENTER, PLACEBO-CONTROLLED STUDY TO EVALUATE THE SAFETY AND EFFICACY OF INTRAMUSCULAR ABP-450 (PRABOTULINUMTOXINA) INJECTION FOR THE TREATMENT OF CERVICAL |
| 390 | \$7,529 | SUNOVION PHARMACEUTICALS | Goudreau, John | NEUROLOGY AND OPHTHALMOLOGY COM | AN OPEN-LABEL, PHASE 3 STUDY EXAMINING THE LONGER-TERM SAFETY, TOLERABILITY AND EFFICACY OF APL-130277 IN LEVODOPA RESPONSIVE PATIENTS WITH PARKINSON'S DISEASE COMPLICATED BY MOTOR FLUCTUATIONS |
| 391 | \$25,000 | MUSCULAR DYSTROPHY ASSOC INC | Sachdev, Amit | NEUROLOGY AND OPHTHALMOLOGY COM | MSU DEPARTMENT OF NEUROLOGY MDA CARE CENTER |
| 392 | \$6,468 | RA PHARMACEUTICALS INC | Sachdev, Amit | NEUROLOGY AND OPHTHALMOLOGY COM | A PHASE 2, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE SAFETY, TOLERABILITY, AND PRELIMINARY EFFICACY OF RA101495 IN SUBJECTS WITH GENERALIZED MYASTHENIA GRAVIS |
| 393 | \$11,340 | ABBVIE INC | Sidiropoulos, Christos | NEUROLOGY AND OPHTHALMOLOGY COM | AN OPEN-LABEL EXTENSION OF STUDY M15-736 TO EVALUATE THE SAFETY AND TOLERABILITY OF 24-HOUR DAILY EXPOSURE OF ABBV-951 IN SUBJECTS WITH ADVANCED PARKINSON'S DISEASE |
| 394 | \$10,209 | ABBVIE INC | Sidiropoulos, Christos | NEUROLOGY AND OPHTHALMOLOGY COM | M15-736: A RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, ACTIVE-CONTROLLED STUDY COMPARING THE EFFICACY, SAFETY AND TOLERABILITY OF ABBV-951 TO ORAL CARBIDOPA/LEVODOPA IN ADVANCED PARKINSON'S DISEASE PATIEN |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|----------------------------------|---------------|---|---|--|---|
| 395 | \$34,990 | ALDEN HEALTH INC | Yassin-Kassab, Mounzer | NEUROLOGY AND OPHTHALMOLOGY COM | DIGITAL EPILEPSY MANAGEMENT: THE USE OF A TWO-WAY COMMUNICATION PLATFORM TO COLLECT PATIENT-ENTERED DATA AS A DIAGNOSTIC AID IN THE NEWLY DIAGNOSED AND REFRACTORY POPULATION |
| 396 | \$100,000 | AMER OSTEOPATHIC ASSOC | Nicodemus, Clarence | OSTEOPATHIC MANIPULATIVE MEDICINE | THE SHORT AND LONG TERM EFFECT OF OMT ON PAIN, OPIOID USAGE AND COST IN PATIENTS WITH CHRONIC LOW BACK PAIN: AN OBSERVATIONAL STUDY |
| 397 | \$35,000 | REATA PHARMACEUTICALS | Liby, Karen | PHARMACOLOGY TOXICOLOGY | UNRESTRICTED GRANT TO SUPPORT KAREN LIBY'S RESEARCH AT MSU ADDITIONAL FUNDING |
| 398 | \$373,935 | NATIONAL INST OF GENERAL MEDICAL SCIENCES | Neubig, Richard | PHARMACOLOGY TOXICOLOGY | INTEGRATIVE PHARMACOLOGICAL SCIENCES TRAINING PROGRAM (IPSTP) |
| 399 | \$375,752 | NATIONAL INST OF HEALTH | Neubig, Richard | PHARMACOLOGY TOXICOLOGY | MECHANISM OF ACTION OF INHIBITORS OF MRTF/SRF-REGULATED GENE TRANSCRIPTION |
| 400 | \$89,334 | THE BOW FOUNDATION | Neubig, Richard | PHARMACOLOGY TOXICOLOGY | PRECLINICAL TESTING OF GENE THERAPY AGENTS FOR GNAO1 DISORDERS |
| 401 | \$9,498 | UNIVERSITY OF CHICAGO | Boivin, Michael | PSYCHIATRY OSTEOPATHIC MEDICINE | IMPACT OF HOUSEHOLD AIR POLLUTION (HAP) IN-UTERO THROUGH EARLY CHILDHOOD ON CHILD NEUROCOGNITIVE DEVELOPMENT FROM INFANCY TO 8 YEARS (HAPCOG STUDY) |
| 402 | \$673,572 | 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 |
| 403 | \$21,241 | UNIVERSITY OF ROCHESTER | Shapiro, Erik | RADIOLOGY OSTEOPATHIC MEDICINE | COLLABORATIVE HIV INVESTIGATIONS OF ANTIRETROVIRAL NEUROPSYCHIATRIC TOXICITIES IN ZAMBIA (CHANTZ): PROTEASE INHIBITOR IMPACT AWD00003777 |
| COLLEGE OF SOCIAL SCIENCE | | | | | |
| 404 | \$21,864 | NATIONWIDE CHILDRENS HOSPITAL | Cavanagh, Caitlin | CRIMINAL JUSTICE | SCREENING AND SERVICES FOR TRAFFICKED AND EXPLOITED YOUTH |
| 405 | \$66,714 | UNIVERSITY OF ALABAMA AT BIRMINGHAM | Maxwell, Christopher | CRIMINAL JUSTICE | DAILY DYNAMICS AND LONG-TERM PATTERNS OF ELDER ABUSE AND NEGLECT IN DEMENTIA FAMILY CAREGIVING |
| 406 | \$21,278 | MICHIGAN STATE POLICE | Wolfe, Scott | CRIMINAL JUSTICE | TRAFFIC STOP ANALYSIS CONSULTING SERVICES FOR MSP |
| 407 | \$50,156 | NATIONAL SCIENCE FOUNDATION | Barnwal, Prabhat | ECONOMICS | COLLABORATIVE RESEARCH: INFORMAL RISK-SHARING AND PRIVATE INITIATIVE TO MITIGATE LOCAL ENVIRONMENTAL RISKS |
| 408 | \$5,940 | NATURAL RESOURCES CONSERVATION SERVICE | Bunting, Erin | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES | IMAGE INTERPRETATION FOR THE NRI ON-LINE COURSE – 11TH OPERATIONAL YEAR |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|---|-------------------------------------|--|---|
| 409 | \$770,894 | NATIONAL SCIENCE FOUNDATION | Dahlin, Kyla | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES | CAREER: PLANT TRAITS LINK DISTURBANCE HISTORY TO CARBON UPTAKE ACROSS SPATIOTEMPORAL SCALES |
| 410 | \$57,000 | USDA FOREST SERVICE | Zhong, Shiyuan | GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES | MODELING AND MONITORING SUPPORT FOR STUDIES OF SMOKE DISPERSION FROM WILDLAND FIRES |
| 411 | \$259,845 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Chen, Jiquan | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | INTERDEPENDENT DYNAMICS OF FOOD, ENERGY AND WATER IN KAZAKHSTAN AND MONGOLIA: CONNECTING LULCC TO THE TRANSITIONAL SOCIOECOLOGICAL SYSTEMS |
| 412 | \$351,272 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Henebry, Geoffrey | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | ATMOSPHERIC TELECONNECTIONS AND ANTHROPOGENIC TELECOUPLINGS DRIVE LAND CHANGE IN CENTRAL ASIAN HIGHLANDS: HOW ENVIRONMENTAL CHANGES, MIGRATION, AND REMITTANCES THREATEN MONTANE AGROPASTORALIST... |
| 413 | \$164,071 | NATIONAL INST OF FOOD & AGRICULTURE | Lindell, Catherine | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | CAN ATTRACTION OF PREDATORY BIRDS REDUCE FOOD SAFETY RISKS POSED BY PEST BIRDS IN ORCHARDS? |
| 414 | \$247,437 | NATIONAL AERONAUTICS & SPACE ADMINISTRATION | Yan, Lin | GLOBAL CHG AND EARTH OBSERVATION CTR FOR | FORCED AND TRUNCATED AGRARIAN TRANSITIONS IN ASIA THROUGH THE LENS OF FIELD SIZE CHANGE |
| 415 | \$379,669 | INST OF EDUCATION SCIENCES | Bowles, Ryan | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | DEVELOPMENT AND VALIDATION OF COMPLEMENTARY MEASURES OF EARLY WRITING: TEACHER PRACTICES AND CHILD OUTCOMES |
| 416 | \$407,856 | INST OF EDUCATION SCIENCES | Douglas, Sarah | HUMAN DEVELOPMENT AND FAMILY STUDIES CSS | ONLINE TRAINING FOR PARAEDUCATORS TO IMPROVE COMMUNICATION SUPPORTS FOR YOUNG CHILDREN WITH COMPLEX COMMUNICATION NEEDS |
| 417 | \$349,744 | NATIONAL ENDOWMENT FOR THE HUMANITIES | Rehberger, Dean | MATRIX HUM ARTS LETTERS SOC SCI ONLINE | EXPANDING ENSLAVED HUB: PEOPLES OF THE HISTORICAL SLAVE TRADE |
| 418 | \$444,272 | AFROBAROMETER | Logan, Carolyn | POLITICAL SCIENCE | AFROBAROMETER ROUNDS 8 AND 9: ANALYSIS UNIT SUPPORT |
| 419 | \$94,389 | CRIM FITNESS FOUNDATION | Acevedo, Ignacio | PSYCHOLOGY SOCIAL SCIENCE | FLINT COMMUNITY EDUCATION EVALUATION 2021 |
| 420 | \$35,800 | UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL | Brandt, Mark | PSYCHOLOGY SOCIAL SCIENCE | IDENTIFYING EFFICIENT TARGETS OF MORAL PERSUASION |
| 421 | \$75,213 | NATIONAL INST OF HEALTH | Burt, Alex | PSYCHOLOGY SOCIAL SCIENCE | FROM NEIGHBORHOOD DISADVANTAGE TO ANTISOCIAL BEHAVIOR: NEUROBIOLOGICAL PATHWAYS |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|--|-----------|--|-------------------------------------|--------------------------------|--|
| 422 | \$9,656 | RTI INTL | Campbell, Rebecca | PSYCHOLOGY SOCIAL SCIENCE | FY19 NATIONAL SEXUAL ASSAULT KIT INITIATIVE TRAINING AND TECHNICAL ASSISTANCE (TTA) |
| 423 | \$99,434 | INDIANA UNIV | McAuley, J | PSYCHOLOGY SOCIAL SCIENCE | UNDERSTANDING SPEECH IN NOISE: THE ROLES OF AGING AND ATTENTIONAL ENTRAINMENT |
| 424 | \$119,362 | NATIONAL SCIENCE FOUNDATION | Nye, Christopher | PSYCHOLOGY SOCIAL SCIENCE | EXAMINING THE EFFECTS OF WORK ON PERSONALITY TRAIT CHANGE IN YOUNG ADULTHOOD |
| 425 | \$480,103 | NATIONAL INST OF HEALTH | Thakkar, Katharine | PSYCHOLOGY SOCIAL SCIENCE | VISUAL PERCEPTION AS A WINDOW ONTO PREDICTION ANOMALIES IN SCHIZOPHRENIA |
| 426 | \$24,000 | CHARLES STEWART MOTT FOUNDATION | Santiago, Anna Maria | SOCIAL SCIENCE DEAN | FLINT COMMUNITY INITIATIVE |
| 427 | \$27,180 | MICHIGAN DISABILITIES RIGHTS COALITION | Brock, Michele | SOCIAL WORK | YOUTH ENGAGED IN LEADING AND LEARNING |
| 428 | \$195,000 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Brock, Michele | SOCIAL WORK | KINSHIP SUPPORT PROGRAM |
| 429 | \$10,000 | MICHIGAN PUBLIC HEALTH INST | Park, Keunhye | SOCIAL WORK | MICHIGAN CHILD WELFARE IMPROVEMENT TASK FORCE |
| ASC PROVOST FOR UNDERGRADUATE EDUCATION | | | | | |
| 430 | \$425,000 | US DEPT OF EDUCATION | Garcia, Luis | MIGRANT STUDENT SERVICES | COLLEGE ASSISTANCE MIGRANT PROGRAM |
| 431 | \$474,946 | US DEPT OF EDUCATION | Garcia, Luis | MIGRANT STUDENT SERVICES | MICHIGAN STATE UNIVERSITY HEP (HIGH SCHOOL EQUIVALENCY PROGRAM) |
| COLLEGE OF VETERINARY MEDICINE | | | | | |
| 432 | \$9,465 | AMER COLLEGE OF VETERINARY SURGEON | Colbath, Aimee | LARGE ANIMAL CLINICAL SCIENCES | THE EFFECTS OF CLODRONATE DISODIUM ON NORMAL AND INFLAMED EQUINE JOINT TISSUES |
| 433 | \$500,000 | NATIONAL INST OF FOOD & AGRICULTURE | Contreras, Andres | LARGE ANIMAL CLINICAL SCIENCES | ENDOTOXEMIA AND THE PATHOGENESIS OF LIPOLYSIS DYSREGULATION IN PERIPARTURIENT DAIRY COWS |
| 434 | \$10,000 | FOUNDATION FOR FOOD & AGRICULTURE RESEARCH | Moeser, Adam | LARGE ANIMAL CLINICAL SCIENCES | LONG-TERM EFFECTS OF EARLY WEANING STRESS ON GLUCONEOGENESIS AS A POTENTIAL MECHANISM FOR CHRONIC INFLAMMATORY DISEASE IN PIGS |
| 435 | \$445,564 | NATIONAL INST OF HEALTH | Moeser, Adam | LARGE ANIMAL CLINICAL SCIENCES | NEURO-IMMUNE MECHANISMS IN EARLY LIFE STRESS-INDUCED GASTROINTESTINAL DISEASE |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|--|---------------|---|---|--|--|
| 436 | \$9,899 | AMER COLLEGE OF VETERINARY SURGEONS FOUNDATIONS | Munsterman, Amelia | LARGE ANIMAL CLINICAL SCIENCES | IN VITRO EVALUATION OF AN EQUINE LAPAROSCOPIC BIOPSY TECHNIQUE |
| 437 | \$30,000 | DIAMOND V MILLS INC | Ruegg, Pamela | LARGE ANIMAL CLINICAL SCIENCES | DIAMOND V MILLS RESEARCH GIFT |
| 438 | \$89,756 | NATIONAL INST OF HEALTH | Hardy, Lauren | PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM | NOVEL MECHANISMS LINKING BLOOD COAGULATION TO LIVER FIBROSIS |
| 439 | \$15,041 | WEST VIRGINIA UNIV | Harkema, Jack | PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM | IMPACT OF PARTICLE AND OZONE INHALATION CO-EXPOSURE ON ALVEOLAR EPITHELIAL REGENERATION |
| 440 | \$407,913 | NATIONAL INST OF HEALTH | Luyendyk, James | PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM | NOVEL COAGULATION-DEPENDENT MECHANISMS OF LIVER REGENERATION TO DETECT AND PREVENT LIVER DYSFUNCTION AFTER PARTIAL HEPATECTOMY |
| 441 | \$46,036 | NATIONAL INST OF HEALTH | Kuszynski, Dawn | PHARMACOLOGY TOXICOLOGY | THE VASCULAR EFFECTS OF CLOPIDOGREL METABOLITES |
| 442 | \$350,000 | UNIVERSITY OF CALIFORNIA IRVINE | Petersen-Jones, Simon | SMALL ANIMAL CLINICAL SCIENCES | USE OF SYSTEMS PHARMACOLOGY TO PREVENT ROD AND CONE PHOTORECEPTOR DEGENERATION |
| 443 | \$40,800 | FOOD & DRUG ADMINISTRATION | Averill, James | VETERINARY DIAGNOSTIC LABORATORY | MICHIGAN STATE UNIVERSITY VDL VETLRN 2017 |
| FACILITY FOR RARE ISOTOPE BEAMS | | | | | |
| 444 | \$22,000,000 | US DEPT OF ENERGY | Glasmacher, Thomas | FACILITY FOR RARE ISOTOPE BEAMS | FACILITY FOR RARE ISOTOPE BEAMS TRANSITION TO OPERATION AND OPERATION AS SCIENTIFIC USER FACILITY |
| 445 | \$55,878 | BROOKHAVEN SCIENCE ASSOC LLC | Hao, Yue | FACILITY FOR RARE ISOTOPE BEAMS | RESEARCH AT BROOKHAVEN NATIONAL LABORATORY FOR MICHAEL BALCEWICZ ON EXTENSION OF SQUARE WELL METHOD FOR ACCELERATOR RING WITH HIGH SPACE CHARGE AND WAKE FIELD |
| 446 | \$63,396 | ARGONNE NATIONAL LABORATORY | Hao, Yue | FACILITY FOR RARE ISOTOPE BEAMS | USE OF ARTIFICIAL INTELLIGENCE TO OPTIMIZE ACCELERATOR OPERATIONS AND IMPROVE MACHINE PERFORMANCE |
| 447 | \$2,943,000 | ELECTRONIC WAREFARE ASSOCIATES INC | Lidia, Steven | FACILITY FOR RARE ISOTOPE BEAMS | PROPOSAL TO ADD A DEDICATED BEAMLINER FOR SINGLE-EVENT EFFECT ANALYSIS TO THE FOLDING SEGMENT 1 OF THE FRIB HEAVY-ION LINEAR ACCELERATOR |
| 448 | \$330,000 | US DEPT OF ENERGY | Ostroumov, Peter | FACILITY FOR RARE ISOTOPE BEAMS | MSU TRAINEESHIP PROGRAM TO ADDRESS CRITICAL WORKFORCE NEEDS IN ACCELERATOR SCIENCE & ENGINEERING |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-------------|-----------------------------|-------------------------------------|-------------------------------------|--|
| 449 | \$3,500,000 | US DEPT OF ENERGY | Severin, Gregory | FACILITY FOR RARE ISOTOPE BEAMS | ACCELERATOR IMPROVEMENT PROJECT: ISOTOPE HARVESTING AT FRIB |
| 450 | \$480,000 | US DEPT OF ENERGY | Severin, Gregory | FACILITY FOR RARE ISOTOPE BEAMS | CORE RESEARCH AND DEVELOPMENT SUPPORT FOR ISOTOPE HARVESTING AT FRIB |
| 451 | \$15,000 | NANOSONIC INC | Wei, Jie | FACILITY FOR RARE ISOTOPE BEAMS | LONG-TERM RADIATION RUGGED ROTARY VACUUM AND WATER SEALS IN HEAVY-ION ACCELERATORS |
| 452 | \$3,000,000 | US DEPT OF ENERGY | York, Richard | FACILITY FOR RARE ISOTOPE BEAMS | HIGH RIGIDITY SPECTROMETER PROJECT – FY20 TO FY22 |
| 453 | \$400,000 | NATIONAL SCIENCE FOUNDATION | Bogner, Scott | NAT'L SUPERCONDUCTING CYCLOTRON LAB | QUANTUM MANY-BODY THEORIES AND METHODS FOR NUCLEAR PHYSICS |
| 454 | \$36,785 | NATIONAL SCIENCE FOUNDATION | Brown, B | NAT'L SUPERCONDUCTING CYCLOTRON LAB | APPLICATIONS OF NUCLEAR STRUCTURE THEORY |
| 455 | \$200,000 | US DEPT OF ENERGY | Cook, Kaitlin | NAT'L SUPERCONDUCTING CYCLOTRON LAB | INTERTWINING NUCLEAR STRUCTURE AND REACTIONS WITH EXOTIC NUCLEI |
| 456 | \$1,224,000 | US DEPT OF ENERGY | Gade, Alexandra | NAT'L SUPERCONDUCTING CYCLOTRON LAB | NUCLEAR STRUCTURE STUDIES AT THE LIMITS OF STABILITY |
| 457 | \$175,000 | US DEPT OF ENERGY | Gueye, Paul | NAT'L SUPERCONDUCTING CYCLOTRON LAB | THE INSTITUTE FOR NUCLEAR SCIENCE TO INSPIRE THE NEXT GENERATION OF A HIGHLY TRAINED WORKFORCE (INSIGHT) AT FRIB |
| 458 | \$1,600,000 | NATIONAL SCIENCE FOUNDATION | Gueye, Paul | NAT'L SUPERCONDUCTING CYCLOTRON LAB | WINDOWS ON THE UNIVERSE: STUDY OF OPEN QUANTUM SYSTEMS IN ATOMIC NUCLEI |
| 459 | \$158,203 | US DEPT OF ENERGY | Hergert, Heiko | NAT'L SUPERCONDUCTING CYCLOTRON LAB | ADVANCED MANY-BODY METHODS FOR NUCLEAR STRUCTURE |
| 460 | \$250,000 | US DEPT OF ENERGY | Hjorth Jensen, Morten | NAT'L SUPERCONDUCTING CYCLOTRON LAB | FROM QUARKS TO STARS; A QUANTUM COMPUTING APPROACH TO THE NUCLEAR MANY-BODY PROBLEM |
| 461 | \$393,000 | US DEPT OF ENERGY | Nazarewicz, Witold | NAT'L SUPERCONDUCTING CYCLOTRON LAB | NUCLEAR COMPUTATIONAL LOW ENERGY INITIATIVE (NUCLEI) |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|--|---------------|---|---|--|---|
| 462 | \$316,257 | NATIONAL SCIENCE FOUNDATION | Schatz, Hendrik | NAT'L SUPERCONDUCTING CYCLOTRON LAB | JINA CENTER FOR THE EVOLUTION OF THE ELEMENTS |
| 463 | \$130,000 | US DEPT OF ENERGY | Singh, Jaideep | NAT'L SUPERCONDUCTING CYCLOTRON LAB | TOWARDS A NEXT GENERATION SEARCH FOR TIME-REVERSAL VIOLATION USING OPTICALLY ADDRESSABLE NUCLEI IN CRYOGENIC SOLIDS |
| 464 | \$991,985 | NATIONAL SCIENCE FOUNDATION | Spyrou, Artemisia | NAT'L SUPERCONDUCTING CYCLOTRON LAB | WINDOWS ON THE UNIVERSE: NUCLEAR ASTROPHYSICS AT THE NSCL |
| PROVOST AND ACADEMIC AFFAIRS | | | | | |
| 465 | \$50,000 | COMMUNITY FOUNDATION FOR SOUTHEAST MICHIGAN | Akmon, Devon | MUSEUM | COMMUNITY FOUNDATION FOR SOUTHEAST MI TRACKED AND TRACED GRANT |
| 466 | \$170,332 | INST OF MUSEUM & LIBRARY SERVICES | Worrall, Mary | MUSEUM | MICHIGAN STATE UNIVERSITY MUSEUM APPAREL AND TEXTILE COLLECTIONS REHOUSING AND PHOTOGRAPHY PROJECT |
| ASC PROV FOR UNIV OUTREACH ENGAGEMENT | | | | | |
| 467 | \$38,639 | MICHIGAN DEPT OF EDUCATION | Wu, Jamie | COMMUNITY EVALUATION AND RSCH COLLABRTVE | GREAT START READINESS PROGRAM EVALUATION GRANT |
| 468 | \$99,996 | UNIVERSITY OF NEBRASKA - LINCOLN | Martinez, Ruben | JULIAN SAMORA RESEARCH INSTITUTE | EDUCATING UNDERSERVED AND SOCIALLY DISADVANTAGE FARMERS ON RISK MANAGEMENT AND MITIGATION |
| 469 | \$100,000 | MICHIGAN HEALTH ENDOWMENT FUND | Barnes Najor, Jessica | PUBLIC ENGAGEMENT AND SCHOLARSHIP | DEVELOPING HEALTH EDUCATION LESSONS FOR TRIBAL HOME VISITING |
| INTERNATIONAL STUDIES AND PROGRAMS | | | | | |
| 470 | \$351,000 | US DEPT OF EDUCATION | Monson, Jamie | AFRICAN STUDIES CENTER | NATIONAL RESOURCE CENTER (TITLE VI)/FLAS |
| 471 | \$260,000 | US DEPT OF EDUCATION | Monson, Jamie | AFRICAN STUDIES CENTER | NATIONAL RESOURCE CENTER (TITLE VI)/FLAS |
| 472 | \$29,267 | PEACE CORPS | Green, Ashley | INTERNATIONAL STUDIES AND PROGRAMS DEAN | PROPOSAL TO SERVE AS PEACE CORPS RECRUITING OFFICE |
| 473 | \$22,500 | US AGENCY FOR INTL DEVELOPMENT | Richter, Kurt | INTERNATIONAL STUDIES AND PROGRAMS DEAN | GRAIN (GRAIN RESEARCH AND INNOVATION) - AFGHANISTAN PROJECT |
| MSU AGBIORESEARCH | | | | | |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|--|---------------|---|---|--|--|
| 474 | \$162,300 | MICHIGAN DEPT OF NATURAL RESOURCES | Hayes, Daniel | FISHERIES AND WILDLIFE MABR | STATUS OF AQUATIC MACROPHYTES IN NORTHERN LAKE HURON AND LAKE SUPERIOR MANAGEMENT UNITS |
| 475 | \$49,688 | GREAT LAKES FISHERY COMMISSION | Murphy, Cheryl | FISHERIES AND WILDLIFE MABR | ASSESSMENT OF SEA LAMPREY PARASITISM SUB-LETHAL IMPACTS ON SISCOWET AND LEAN LAKE TROUT POPULATIONS |
| 476 | \$3,000,000 | MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT | Smith, George | MSU AGBIORESEARCH DIR OFC | MICHIGAN ALLIANCE FOR ANIMAL AGRICULTURE - 2021 |
| 477 | \$796,725 | NATIONAL INST OF FOOD & AGRICULTURE | Douches, David | PLANT SOIL AND MICROBIAL SCIENCES | DEVELOPMENT OF MULTIPURPOSE POTATO CULTIVARS WITH ENHANCED QUALITY, DISEASE AND PEST RESISTANCE – NORTH CENTRAL REGION 2021-23 |
| 478 | \$215,559 | COLORADO STATE UNIV | Patterson, Eric | PLANT SOIL AND MICROBIAL SCIENCES | INTERNATIONAL WEED GENOMICS CONSORTIUM |
| 479 | \$349,808 | MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY | Asher, Aaron | WATER RESEARCH INSTITUTE MABR | INSTITUTIONAL CONTROLS FOR GROUNDWATER MANAGEMENT: LONG-TERM COSTS AND THEIR IMPACT FOR POLICY |
| MICHIGAN STATE UNIVERSITY EXTENSION | | | | | |
| 480 | \$10,125 | MICHIGAN STATE HORTICULTURAL SOCIETY | Irish-Brown, Amy | EXTENSION AGRICULTURE AND AGRIBUSINESS | APPLE MATURITY MANIPULATION - USE OF PGR'S AND OTHER PRODUCTS |
| 481 | \$209,620 | 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 |
| 482 | \$28,957 | MISSOURI STATE UNIV | Smith, Thomas | EXTENSION AGRICULTURE AND AGRIBUSINESS | VESTA NATIONAL CENTER OF EXCELLENCE |
| 483 | \$10,800 | NATIONAL ASSOC OF STATE DEPT OF AG | Tocco, Phillip | EXTENSION AGRICULTURE AND AGRIBUSINESS | FSMA ON-FARM READINESS REVIEW TRAINING DEVELOPMENT AND DELIVERY |
| 484 | \$22,756 | MICHIGAN 4H FOUNDATION | DeDecker, Jacob | EXTENSION CHILDREN AND YOUTH | MICHIGAN 4H FOUNDATION COUNTY PROGRAMS |
| 485 | \$6,555 | MICHIGAN 4H FOUNDATION | DeDecker, Jacob | EXTENSION CHILDREN AND YOUTH | MICHIGAN 4H FOUNDATION COUNTY PROGRAMS |
| 486 | \$11,725 | BARRY COUNTY UNITED WAY | Kilpatrick, Glenda | EXTENSION CHILDREN AND YOUTH | BARRY COUNTY MSU EXTENSION 4-H PROGRAM |
| 487 | \$52,830 | LAKESHORE CONNECTIONS, INC. | Rivetto, Laurie | EXTENSION CHILDREN AND YOUTH | GENERATION Z - FUTURE SQUAD |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|---------------|---|---|--|---|
| 488 | \$297,858 | NATIONAL INST OF FOOD & AGRICULTURE | Carpenter, Craig | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | LEVERAGING BIG DATA TO INVESTIGATE AND SUPPORT RURAL VETREPRENEURS |
| 489 | \$11,750 | THE NATURE CONSERVANCY | Elgin, Erick | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | INVASIVE AQUATIC PLANT SURVEILLANCE IN NEW YORK GREAT LAKES PORTS |
| 490 | \$20,000 | MICHIGAN ECONOMIC DEVELOPMENT CORP | Northrop, Carey | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | FIRST IMPRESSIONS: TOURISM ASSESSMENT PROGRAMS TO CERTIFIED REDEVELOPMENT READY COMMUNITIES |
| 491 | \$25,000 | MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY | Ortquist, Jinnifer | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | 2020-2021 HOUSING EDUCATION PROGRAM (HEP) |
| 492 | \$150,000 | MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY | Prykucki, Bethany | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | DEVELOPMENT OF RECYCLING LEADERS TRAINING COURSE FOR FY21 |
| 493 | \$40,000 | UNIVERSITY OF MICHIGAN | Triezenberg, Heather | EXTENSION COMMUNITY FOOD AND ENVIRONMENT | FY 2020 COVID-19 RELATE RAPID RESPONSE FOR FISH PRODUCERS AND CHARTER FISHING INDUSTRIES |
| 494 | \$24,178 | EXTENSION FOUNDATION | Eschbach, Cheryl | EXTENSION HEALTH AND NUTRITION | EXCITE: EXTENSION COLLABORATIVE ON IMMUNIZATION, TEACHING & ENGAGEMENT |
| 495 | \$727,268 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Henne, Rebecca | EXTENSION HEALTH AND NUTRITION | HEALTHY EATING TO MITIGATE LEAD EXPOSURE |
| 496 | \$69,977 | BOWLING GREEN STATE UNIVERSITY | Triezenberg, Heather | FISHERIES AND WILDLIFE MSUE | COHH3 - REVISION |
| 497 | \$31,745 | BOWLING GREEN STATE UNIVERSITY | Triezenberg, Heather | FISHERIES AND WILDLIFE MSUE | COMMUNITY-ENGAGED SCHOLARSHIP TRAINING FOR SCIENTISTS AND STAKEHOLDERS |
| 498 | \$38,989 | MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS | Badra, Peter | NATURAL FEATURES INVENTORY MSUE | WATERCRESS SNAIL SURVEYS AND SPECIES ABSTRACT |
| 499 | \$47,500 | MICHIGAN DEPT OF NATURAL RESOURCES | Badra, Peter | NATURAL FEATURES INVENTORY MSUE | TARGETED NATIVE MUSSEL SURVEYS IN SOUTHERN MICHIGAN LAKES AND RESERVIORS |
| 500 | \$100,000 | MICHIGAN DEPT OF NATURAL RESOURCES | Cohen, Joshua | NATURAL FEATURES INVENTORY MSUE | NATURAL FEATURES INVENTORY OF MICHIGAN STATE TRAILS 2021 |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|-----|-----------|---|-------------------------------------|---------------------------------|---|
| 501 | \$20,000 | MICHIGAN DEPT OF NATURAL RESOURCES | Cohen, Joshua | NATURAL FEATURES INVENTORY MSUE | 8 - NATURAL COMMUNITY SURVEYS OF FRD LANDS 2021 |
| 502 | \$114,110 | MICHIGAN DEPT OF NATURAL RESOURCES | Cohen, Joshua | NATURAL FEATURES INVENTORY MSUE | 9 - NATURAL FEATURES INVENTORY OF MICHIGAN STATE TRAILS 2021 |
| 503 | \$376,800 | US FISH & WILDLIFE SERVICE | Cole-Wick, Ashley | NATURAL FEATURES INVENTORY MSUE | MITCHELL'S SATYR BUTTERFLY CONSERVATION, HABITAT MANAGEMENT, AND CAPTIVE REARING |
| 504 | \$30,502 | MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS | Cole-Wick, Ashley | NATURAL FEATURES INVENTORY MSUE | RARE SPECIES SURVEYS USING MIFI NATURAL COMMUNITY RESULTS II |
| 505 | \$98,718 | EA ENGINEERING SCIENCE & TECHNOLOGY INC PBC | Cuthrell, David | NATURAL FEATURES INVENTORY MSUE | RUSTY PATCHED BUMBLE BEE SURVEYS |
| 506 | \$41,293 | MICHIGAN DEPT OF NATURAL RESOURCES | Cuthrell, David | NATURAL FEATURES INVENTORY MSUE | FRD-GNA-HMNF WILDLIFE SURVEYS 2021 |
| 507 | \$51,980 | USDA FOREST SERVICE | Cuthrell, David | NATURAL FEATURES INVENTORY MSUE | MODIFICATION 2 TO PD 33335/RC108810: SURVEY, INVENTORY, AND MONITOR PLANTS, ANIMALS, AND ECOSYSTEMS ON THE HIAWATHA NATIONAL FOREST 2018-2023 |
| 508 | \$85,000 | US FISH & WILDLIFE SERVICE | Hackett, Rachel | NATURAL FEATURES INVENTORY MSUE | DWARF LAKE IRIS SITE AND HABITAT MANAGEMENT AND EDUCATION |
| 509 | \$43,500 | USDA FOREST SERVICE | Higman, Phyllis | NATURAL FEATURES INVENTORY MSUE | MNFI INVENTORY, MONITORING AND PUBLIC EDUCATION ON THE HURON - MANISTEE NATIONAL FORESTS |
| 510 | \$159,372 | MICHIGAN DEPT OF TRANSPORTATION | Higman, Phyllis | NATURAL FEATURES INVENTORY MSUE | MDOT RARE PLANT SURVEYS 2021 |
| 511 | \$113,923 | MICHIGAN DEPT OF NATURAL RESOURCES | Higman, Phyllis | NATURAL FEATURES INVENTORY MSUE | DNR 14-FRD-GNA-HMNF BOTANY SURVEYS 2021 |
| 512 | \$41,497 | NATIONAL PARK SERVICE | Higman, Phyllis | NATURAL FEATURES INVENTORY MSUE | NPS SAND POINT WETLAND PLANT INVENTORY |
| 513 | \$49,114 | MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY | Klatt, Brian | NATURAL FEATURES INVENTORY MSUE | EGLE ANNUAL ACCESS TO NATURAL HERITAGE DATABASE |
| 514 | \$75,825 | MICHIGAN NATURE ASSOC | Lee, Yu Man | NATURAL FEATURES INVENTORY MSUE | FACILITATING AND IMPLEMENTING EASTERN MASSASAUGA CONSERVATION AND RECOVERY IN MICHIGAN |
| 515 | \$26,519 | MICHIGAN DEPT OF NATURAL RESOURCES | Lee, Yu Man | NATURAL FEATURES INVENTORY MSUE | UPPER MIDWEST TURTLE CONSERVATION - CSWG PHASE 3 |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|--------------------------------|-------------|--|-------------------------------------|--------------------------------------|--|
| 516 | \$19,622 | MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS | Lee, Yu Man | NATURAL FEATURES INVENTORY MSUE | EVALUATING EFFECTIVENESS OF INNOVATIVE AMPHIBIAN AND REPTILE MANAGEMENT TOOLS AT FORT CUSTER TRAINING CENTER - PHASE 1 |
| 517 | \$29,969 | NATIONAL PARK SERVICE | Monfils, Michael | NATURAL FEATURES INVENTORY MSUE | BARRED OWL SURVEY OF PICTURED ROCKS NATIONAL LAKESHORE |
| 518 | \$24,999 | MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS | Rowe, Logan | NATURAL FEATURES INVENTORY MSUE | FORT CUSTER SURVEYS AND HABITAT ASSESSMENTS FOR AT-RISK POLLINATORS |
| 519 | \$50,000 | MICHIGAN SUGARBEET ADVANCEMENT | Bublitz, Daniel | PLANT SOIL AND MICROBIAL SCIENCES | SUGARBEET ADVANCEMENT FUNDS - SALARY AND FRINGE FOR RG072614 BUBL |
| 520 | \$6,103 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Beyea, Wayne | SCHL OF PLANNING,DESIGN&CNST-MSUE | CLIMATE AND HEALTH COLLABORATION |
| RESEARCH AND INNOVATION | | | | | |
| 521 | \$6,453 | TRANSNETYX INC | Hankenson, Claire | CAMPUS ANIMAL RESOURCES | ASSESSMENT OF NONINVASIVE TISSUE SAMPLING FOR GENOTYPING AND ANIMAL WELFARE IN LABORATORY MICE |
| 522 | \$84,305 | CENTERS FOR DISEASE CONTROL & PREVENTION | Kasten, Eric | CLINICAL AND TRANSLATIONAL SCIENCES | CONTRACT 200-2016-89831 DATA COORDINATING CENTER FOR THE STUDY TO EXPLORE DEVELOPMENT (SEED 1,2,3) |
| 523 | \$47,224 | CENTERS FOR DISEASE CONTROL & PREVENTION | Kasten, Eric | CLINICAL AND TRANSLATIONAL SCIENCES | CONTRACT 200-2016-89831 DATA COORDINATING CENTER FOR THE STUDY TO EXPLORE DEVELOPMENT (SEED 1,2,3) |
| 524 | \$457,937 | NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES | LaPres, John | INSTITUTE FOR INTEGRATIVE TOXICOLOGY | MULTIDISCIPLINARY TRAINING IN ENVIRONMENTAL TOXICOLOGY |
| 525 | \$188,031 | JOLT ENERGY STORAGE TECHNOLOGIES LLC | Dan, Adina | MIDLAND ST ANDREWS | SYNTHETIC STRATEGIES |
| 526 | \$250,000 | MICHIGAN ECONOMIC DEVELOPMENT CORP | Chylla, Richard | MSU INNOVATION CENTER | MSU ADVANCE GRANT PROGRAM, RFP-CASE-317360 |
| 527 | \$2,858,800 | MICHIGAN STATE UNIV FOUNDATION | Gage, Douglas | OFFICE OF RESEARCH AND INNOVATION | TECHNOLOGY COMMERCIALIZATION - MSUT (RG100310) |
| GRADUATE SCHOOL DEAN | | | | | |
| 528 | \$56,408 | BOSTON UNIV | Campa, Henry | GRADUATE SCHOOL DEAN | POSTDOCTORAL PATHWAYS - BROADENING ACCESS TO CAREER ADVANCEMENT |

Gift, Grant and Contract Report
Board of Trustees
September 2021

| | Amount | Sponsor | Principal Investigator/ Director | Unit | Project Title |
|---|----------------------|---|---|---------------------------------------|---|
| 529 | \$1,889,533 | NATIONAL SCIENCE FOUNDATION | Stoddart, Judith | GRADUATE SCHOOL DEAN | GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP) |
| UNIVERSITY ADVANCEMENT | | | | | |
| 530 | \$43,137,345 | VARIOUS DONORS - ADVANCEMENT | Heil, Marti | VICE PRESIDENT UNIVERSITY ADVANCEMENT | GIFTS TO MSU FOR THE PERIOD 04/01/2021 TO 06/30/2021 |
| GENERAL UNIVERSITY ITEMS | | | | | |
| 531 | \$99,350 | MICHIGAN DEPT OF HEALTH & HUMAN SERVICES | Weismantel, David | CENTER FOR SURVIVORS | FY 2021 CVS-2021 - VOCA CRIME VICTIM ASSISTANCE |
| 532 | \$12,500 | INGHAM COUNTY | Rosen, Holly | DOMESTIC SHELTER | SHELTER, ADVOCACY AND SUPPORT FOR DOMESTIC VIOLENCE SURVIVORS |
| 533 | \$29,875 | CHILDRENS HOSPITAL OF MICHIGAN FOUNDATION | Martell, Dennis | MSU STUDENT HEALTH CENTER | IMPACTING OUTCOMES FOR STUDENTS IN RECOVERY |
| MICHIGAN STATE UNIVERSITY COLLEGE OF LAW | | | | | |
| 534 | \$19,820 | RECORDING INDUSTRY ASSOCIATION OF AMERICA | Pager, Sean | COLLEGE OF LAW DEAN | DEBUNKING DIGITAL DEMOCRATIZATION |
| VARIOUS | | | | | |
| 535 | \$188,942 | VARIOUS | Various | Various | 86 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION |
| | \$184,515,370 | Total September 2021 Board | | | |

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
September 10, 2021

| GIFT NO. | GIFT | DONOR | DEPARTMENT NAME | ESTIMATED VALUE | PURPOSE OR USE |
|----------|--|-------------------------------|--|-----------------|--|
| 1 | Original photographs & archival materials by Leonard Freed. | Brigitte Freed | Libraries | \$1,759,320.00 | Research in Special Collections |
| 2 | Access to TCDP facility & utilities. Access to 3,500 cattle & their health/production records. Intern housing during 2020. | Green Meadow Farms | Large Animal Clinical Sciences | \$184,000.00 | Education & research |
| 3 | Purina Pro Plan Veterinary Diets | Nestle Purina PetCare Company | Veterinary Medical Center | \$72,939.54 | Pet food for in-hospital use at the Veterinary Medical Center, Vivarium & MSU K9s. |
| 4 | Software & licenses | TechSmith Corporation | Computer Science & Engineering | \$51,828.80 | Capstone coursework & presentation |
| 5 | Kellogg Cabinets | Nestle Purina PetCare Company | Veterinary Medical Center | \$15,906.00 | Purina Nutrition Center |
| 6 | Hosted donor event | Crowley Sullivan | Intercollegiate Athletics/Spartan Fund | \$12,463.21 | Meet & greet with coaches, staff & donors. |
| 7 | Comic book collection | Bruce & Lynn Edwards | Libraries | \$12,422.69 | Research in Special Collections |

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|------|--|-----------------|------------------|-----------------------|--|
| 8 | 1970 Juzek Cello Robert Clark Cello Bow Bam Newtech Cello Case | Steve Schneider | College of Music | \$11,800.00 | For use by advanced cello students. |
| 9-60 | Various | Various | Various | \$22,158.07 | 52 Consolidated non-cash gifts for individual values less than \$5,000 Details on file in the Contract & Grant Administration office, Hannah Administration Bldg. 426 Auditorium Road, Room 2, East Lansing, MI 48824 |
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| | | | TOTAL | \$2,142,838.31 | |