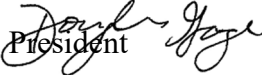


# **MICHIGAN STATE UNIVERSITY**

August 26, 2022

## **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 28, 2022, through August 11, 2022. The report is a compilation of 600 Gifts, Grants and Contracts plus 52 Consignment/Non-Cash Gifts, with a total value of \$192,019,749.



### FY 2022-23 TOTALS:

- |   |               |
|---|---------------|
| a) Gifts, Grants and Contracts only:              | \$191,712,098 |
| b) Gifts, Grants and Contracts plus Consignments: | \$192,019,749 |
- (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.

Douglas A. Gage, Ph.D.  
Vice President

Hannah Administration Bldg.  
426 Auditorium Rd, Rm 249  
East Lansing, MI 48824

517/355-0306  
Fax: 517/432-1171

[gage@msu.edu](mailto:gage@msu.edu)

## Current Period / Year to Date

### Gift & Grant Awards

Meeting Date: 09/09/2022

Current Period: May 28, 2022 - Aug 11, 2022

#### AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$131,854,243	\$131,854,243	92.2%
State of Michigan	\$1,392,140	\$1,392,140	1.0%
Other	\$3,140,340	\$3,140,340	2.2%
Industry/CO	\$2,347,159	\$2,347,159	1.6%
Foundation	\$3,604,179	\$3,604,179	2.5%
Association	\$649,919	\$649,919	0.5%
<b>Research - Total</b>	<b>\$142,987,981</b>	<b>\$142,987,981</b>	<b>100%</b>
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$14,136,713	\$14,136,713	29.0%
State of Michigan	\$141,067	\$141,067	0.3%
Other	\$1,563,336	\$1,563,336	3.2%
Industry/CO	\$109,075	\$109,075	0.2%
Foundation	\$686,282	\$686,282	1.4%
Association	\$224,846	\$224,846	0.5%
Various Donors - Advancement	\$31,862,798	\$31,862,798	65.4%
<b>Non-Research - Total</b>	<b>\$48,724,117</b>	<b>\$48,724,117</b>	<b>100%</b>
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$145,990,957	\$145,990,957	76.2%
State of Michigan	\$1,533,207	\$1,533,207	0.8%
Other	\$4,703,676	\$4,703,676	2.5%
Industry/CO	\$2,456,234	\$2,456,234	1.3%
Foundation	\$4,290,461	\$4,290,461	2.2%
Association	\$874,765	\$874,765	0.5%
Various Donors - Advancement	\$31,862,798	\$31,862,798	16.6%
<b>TOTAL</b>	<b>\$191,712,098</b>	<b>\$191,712,098</b>	<b>100%</b>

#### # OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	306	306	63.8%
State of Michigan	16	16	3.3%
Other	60	60	12.5%
Industry/CO	51	51	10.6%
Foundation	19	19	4.0%
Association	28	28	5.8%
<b>Research - Total</b>	<b>480</b>	<b>480</b>	<b>100%</b>
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	64	64	53.3%
State of Michigan	5	5	4.2%
Other	24	24	20.0%
Industry/CO	7	7	5.8%
Foundation	14	14	11.7%
Association	5	5	4.2%
Various Donors - Advancement	1	1	0.8%
<b>Non-Research - Total</b>	<b>120</b>	<b>120</b>	<b>100%</b>
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	370	370	61.7%
State of Michigan	21	21	3.5%
Other	84	84	14.0%
Industry/CO	58	58	9.7%
Foundation	33	33	5.5%
Association	33	33	5.5%
Various Donors - Advancement	1	1	0.2%
<b>TOTAL</b>	<b>600</b>	<b>600</b>	<b>100%</b>

## Current Year / Previous Year

### Gift & Grant Awards

Meeting Date: 09/09/2022

Current Period: May 28, 2022 - Aug 11, 2022

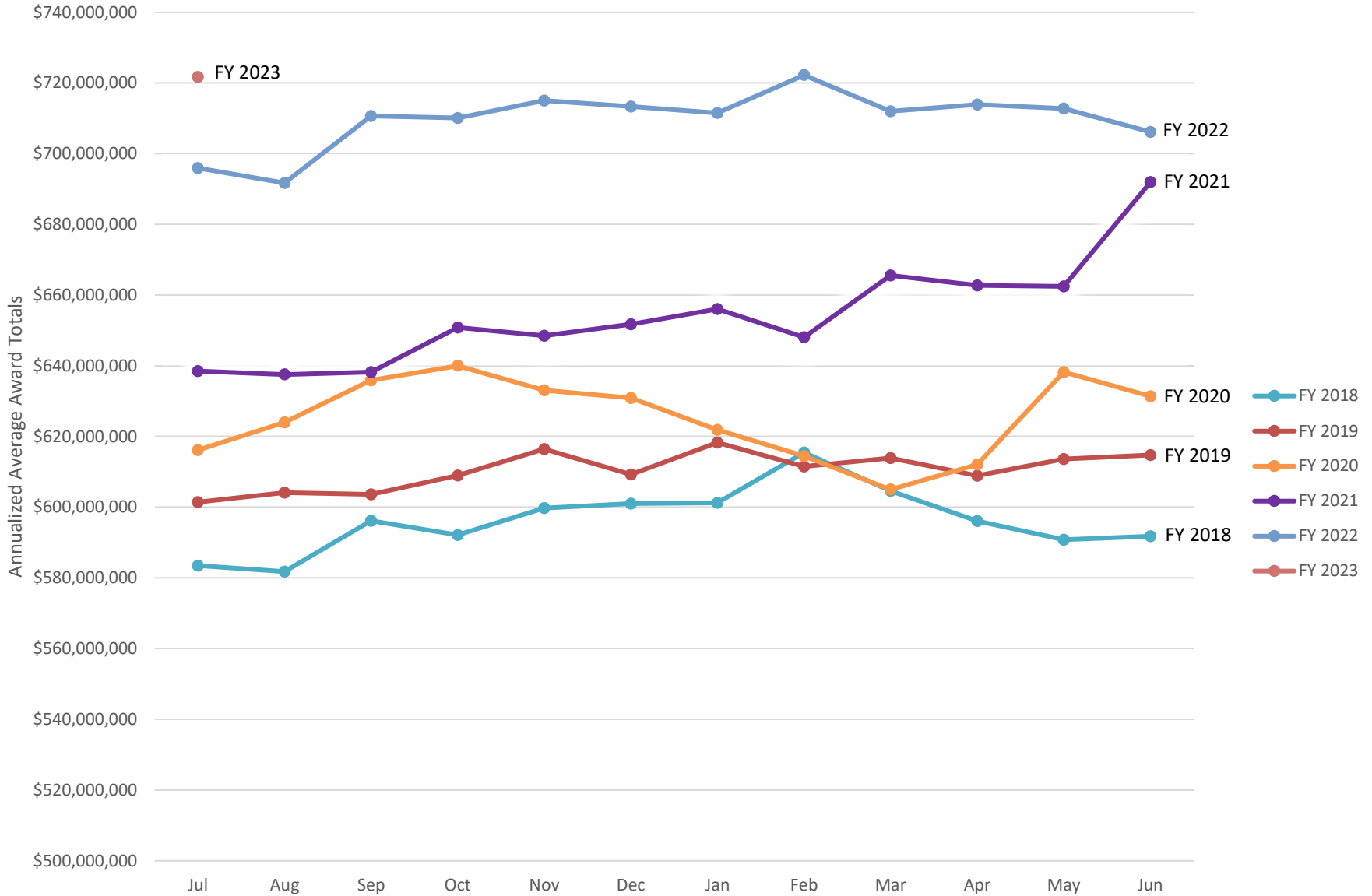
#### AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$110,148,814	\$131,854,243	19.7%
State of Michigan	\$5,504,210	\$1,392,140	-74.7%
Other	\$3,117,675	\$3,140,340	0.7%
Industry/CO	\$2,910,972	\$2,347,159	-19.4%
Foundation	\$5,255,430	\$3,604,179	-31.4%
Association	\$681,219	\$649,919	-4.6%
<b>Research - Total</b>	<b>\$127,618,321</b>	<b>\$142,987,981</b>	<b>12.0%</b>
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$10,138,287	\$14,136,713	39.4%
State of Michigan	\$1,111,618	\$141,067	-87.3%
Other	\$1,256,878	\$1,563,336	24.4%
Industry/CO	\$29,300	\$109,075	272.3%
Foundation	\$1,177,171	\$686,282	-41.7%
Association	\$46,450	\$224,846	384.1%
Various Donors - Advancement	\$43,137,345	\$31,862,798	-26.1%
<b>Non-Research - Total</b>	<b>\$56,897,050</b>	<b>\$48,724,117</b>	<b>-14.4%</b>
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	\$120,287,101	\$145,990,957	21.4%
State of Michigan	\$6,615,828	\$1,533,207	-76.8%
Other	\$4,374,553	\$4,703,676	7.5%
Industry/CO	\$2,940,272	\$2,456,234	-16.5%
Foundation	\$6,432,601	\$4,290,461	-33.3%
Association	\$727,669	\$874,765	20.2%
Various Donors - Advancement	\$43,137,345	\$31,862,798	-26.1%
<b>TOTAL</b>	<b>\$184,515,370</b>	<b>\$191,712,098</b>	<b>3.9%</b>

#### # OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	317	306	-3.5%
State of Michigan	24	16	-33.3%
Other	48	60	25.0%
Industry/CO	51	51	0.0%
Foundation	21	19	-9.5%
Association	47	28	-40.4%
<b>Research - Total</b>	<b>508</b>	<b>480</b>	<b>-5.5%</b>
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	66	64	-3.0%
State of Michigan	9	5	-44.4%
Other	15	24	60.0%
Industry/CO	1	7	600.0%
Foundation	25	14	-44.0%
Association	2	5	150.0%
Various Donors - Advancement	1	1	0.0%
<b>Non-Research - Total</b>	<b>119</b>	<b>120</b>	<b>0.8%</b>
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	383	370	-3.4%
State of Michigan	33	21	-36.4%
Other	63	84	33.3%
Industry/CO	52	58	11.5%
Foundation	46	33	-28.3%
Association	49	33	-32.7%
Various Donors - Advancement	1	1	0.0%
<b>TOTAL</b>	<b>627</b>	<b>600</b>	<b>-4.3%</b>

### Michigan State University 3 Year Annualized Average Awards



## Top 10 Awards for the September 9, 2022 BOT Meeting

Rank	Sponsor Type	Award Amount	Principal Investigator	Sponsor	Department	New or Modification	Award Activity Type	Project Dates	Project Title
1	Federal Government	\$45,010,000	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	\$4,986,777	Lynmarie Posey	National Science Foundation	NATURAL SCIENCE DEAN	New	Education/Instruction	01/01/2023 12/31/2028	Natural Science Transfer Scholars: Natural Science Foundations for Innovation in the Data-Driven Economy
3	Federal Government	\$3,300,000	Douglas Buhler	US Agency for Intl Development	MSU AGBIORESEARCH DIR OFC	Modification	Research	08/23/2018 08/22/2023	Feed the Future Innovation Lab for Legume Systems Research (ILLSR)
4	Federal Government	\$3,200,000	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
5	Federal Government	\$2,290,000	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
6	Federal Government	\$2,264,054	Kenneth Merz	National Science Foundation	CHEMISTRY	New	Research	07/15/2022 06/30/2027	Collaborative Research: Frameworks: Interoperable High-Performance Classical, Machine Learning and Quantum Free Energy Methods in AMBER
7	Federal Government	\$2,152,487	Stacey Missmer	US Dept of the Army	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	New	Research	08/15/2021 08/14/2025	Defining Endometriosis Physiologic Sub-Phenotypes and Subsequent Cancer and Comorbidities Risk Through Discovery of Novel Genetic Variants
8	Federal Government	\$1,800,000	Shinhan Shiu	National Science Foundation	PLANT BIOLOGY CNS	New	Research	01/01/2023 12/31/2025	RESEARCH-PGR: Combining machine learning and experimental analysis to define trichome and root-specific gene regulatory networks in cultivated tomato and related Solanaceae species
9	Federal Government	\$1,615,000	Heatherlun Uphold	Centers for Disease Control & Prevention	CHM FLINT	Modification	Public Service	07/31/2021 07/30/2024	The National Network to Innovate for COVID-19 and Adult Vaccine Equity (NNICE)
10	Federal Government	\$1,500,000	Kei Minamisono	National Science Foundation	NAT'L SUPERCONDUCTING CYCLOTRON LAB	Modification	Research	09/01/2021 08/31/2024	The precision frontier at FRIB: masses, radii, moments, and fundamental interactions
	<b>TOTAL</b>	<b>\$68,118,318</b>							

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
<b>COLLEGE OF AGRICULTURE AND NAT RESOURCES</b>					
1	\$49,473	WORLD BANK	Jin, Songqing	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ANALYTICAL WORK ON CLIMATE CHANGE AND AGRICULTURAL FACTOR MARKETS IN UKRAINE.
2	\$794,872	NATIONAL INST OF FOOD & AGRICULTURE	Loveridge, Scott	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	PARTNERSHIP: MEASURING AND MAPPING RURAL PRICE INFLATION
3	\$100,149	DAIRY MANAGEMENT INC	Bradford, Barry	ANIMAL SCIENCE DEPARTMENT ANR	ASSESSMENT OF GREENHOUSE GAS FOOTPRINTS ON SMALL AND MID SIZED U.S. DAIRY FARMS
4	\$77,053	NATIONAL INST OF ANIMAL SCIENCE	Gondro, Cedric	ANIMAL SCIENCE DEPARTMENT ANR	DEVELOPMENT OF ADVANCED TECHNOLOGIES TO ESTABLISH A HIGH-QUALITY, HIGHLY PRODUCTIVE JERSEY HERD
5	\$25,000	PERDUE AGRIBUSINESS LLC	Lock, Adam	ANIMAL SCIENCE DEPARTMENT ANR	RESEARCH GIFT
6	\$25,941	MICHIGAN PORK PRODUCERS ASSOC	Rozeboom, Dale	ANIMAL SCIENCE DEPARTMENT ANR	UNDERSTANDING THE HEALTH BENEFITS OF FEEDING TREATED WHEAT STRAW TO WEANLING PIGS
7	\$135,303	CLEMSON UNIV	Siegford, Janice	ANIMAL SCIENCE DEPARTMENT ANR	IMPACT OF LITTER TRAINING STRATEGIES ON EGG-LAYING, PILING, AND WELFARE OF LAYING HENS IN AVIARIES
8	\$340,000	NATIONAL SCIENCE FOUNDATION	Wang, Yuan	ANIMAL SCIENCE DEPARTMENT ANR	CAREER: SPECIFY GERM CELL LINEAGES FROM PLURIPOTENT STATE
9	\$55,000	FOOD & DRUG ADMINISTRATION	Alocilja, Evangelyn	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	STUDY FOR THE CONVERSION OF FDA DNA SIGNATURES ONTO A NANO-BIOSENSOR ASSAY
10	\$20,000	MICHIGAN BLUEBERRY COMMISSION	Dong, Younsuk	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	IMPROVING BLUEBERRY IRRIGATION MANAGEMENT UTILIZING SENSOR-BASED IRRIGATION SCHEDULING
11	\$25,000	MICHIGAN POTATO INDUSTRY COMMISSION	Dong, Younsuk	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	IMPROVEMENT OF DISEASE MANAGEMENT IN IRRIGATED POTATO FIELDS USING A REAL-TIME SENSOR MONITORING SYSTEM
12	\$50,000	NATIONAL SCIENCE FOUNDATION	Dong, Younsuk	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	I-CORPS: LOCOMOS (IOT-BASED LOW-COST SENSOR MONITORING SYSTEM)
13	\$49,920	NATIONAL INST OF FOOD & AGRICULTURE	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	SUSTAINABLE ENERGY FOR A SUSTAINABLE FUTURE – AN ASABE GLOBAL ENGAGEMENT CONFERENCE

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
14	\$53,460	AGRICULTURAL RESEARCH SERVICE	Marks, Bradley	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	ACQUISITION OF GOODS AND SERVICES
15	\$167,422	NATIONAL SCIENCE FOUNDATION	Saffron, Christopher	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	NSF-DFG ECHEM: FUTURE FUELS AND CHEMICALS FROM ELECTROCATALYTIC UPGRADING: ADVANCING KINETIC UNDERSTANDING USING OPERANDO SPECTROSCOPIC APPROACHES AND QUANTUM CHEMICAL MODELING
16	\$31,120	DTE ENERGY	Surbrook, Truman	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	MAEC DUES 2022
17	\$50,852	TWO SIX LABS	Gray, Steven	DEPARTMENT OF COMMUNITY SUSTAINABILITY	MULTI-INFORMED MODELS EMERGING FROM SOCIAL INVESTIGATIONS AND SEMIOTICS (MIMESIS)
18	\$198,079	US DEPT OF AGRICULTURE	Graziani, Maria	DEPARTMENT OF COMMUNITY SUSTAINABILITY	INCREASING RECORDKEEPING AND FINANCIAL MANAGEMENT OPPORTUNITIES FOR UNDERSERVED PRODUCERS IN MICHIGAN: YEAR TWO OF FARM BUSINESS RECORDKEEPING FOR THE GLOBAL MAJORITY
19	\$50,000	MICHIGAN DEPT OF EDUCATION	Matts, Colleen	DEPARTMENT OF COMMUNITY SUSTAINABILITY	MICHIGAN 10 CENTS EVALUATION (2021-2022)
20	\$26,820	KANSAS STATE UNIV	Perry, Elizabeth	DEPARTMENT OF COMMUNITY SUSTAINABILITY	UNDERSTANDING THE DRIVERS AND EFFECTS OF RECREATION DISPLACEMENT IN SOUTHERN CALIFORNIA NATIONAL FORESTS
21	\$264,208	NATIONAL SCIENCE FOUNDATION	Chung, Henry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MOLECULAR AND EVOLUTIONARY MECHANISMS UNDERLYING DESICCATION RESISTANCE ACROSS DROSOPHILA SPECIES
22	\$58,327	APPLICATION INSIGHT LLC	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	A NOVEL PERMANENTLY INSTALLED SPRAY DELIVERY SYSTEM FOR IMPROVED PESTICIDE APPLICATION IN SPECIALTY CROPS
23	\$195,000	FOREIGN AGRICULTURAL SERVICE	Jiang, Wayne	ENTOMOLOGY AGRICULTURE AND NATURAL RES	AFRICA RESIDUE SURVEY PROJECT
24	\$70,000	AFRICAN AGRICULTURAL TECHNOLOGY FOUNDATION	Maredia, Karimbhai	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SUSTAINABLE DEPLOYMENT OF SCALING-UP OF POD BORER RESISTANT B.T. COWPEA IN WEST AFRICA
25	\$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

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
26	\$111,469	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MI FY22 BLACK ASH AND EAB
27	\$101,707	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATING EFFECTS OF SYSTEMIC INSECTICIDES APPLIED FOR HEMLOCK WOOLLY ADELGID CONTROL ON HEMLOCK RADIAL GROWTH AND RECOVERY
28	\$17,404	MICHIGAN POTATO INDUSTRY COMMISSION	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGEMENT OF VERTICILLIUM DAHLIAE USING BIO-FUNGICIDES
29	\$10,000	MICHIGAN TREE FRUIT COMMISSION	Szucs, Marianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BIOLOGICAL CONTROL OF BROWN MARMORATED STINK BUG IN SOUTHWESTERN MICHIGAN
30	\$182,600	MICHIGAN DEPT OF NATURAL RESOURCES	Szucs, Marianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	ESTABLISHING HYPENA OPULENTA FOR BIOLOGICAL CONTROL OF INVASIVE SWALLOW-WORTS IN MICHIGAN
31	\$13,574	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	2022 APPLE ENTOMOLOGY RESEARCH
32	\$13,000	BAYER CROPSCIENCE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BAYER INSECTICIDE FIELD TESTING (MICHIGAN SERVICE ORDER 101)
33	\$19,717	MICHIGAN APPLE COMMITTEE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RAINFASTNESS OF FUNGICIDES FOR DISEASE CONTROL IN APPLES
34	\$90,000	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
35	\$110,650	MICHIGAN DEPT OF NATURAL RESOURCES	Bence, James	FISHERIES AND WILDLIFE	IMPROVING FISHERY STOCK ASSESSMENTS IN THE GREAT LAKES
36	\$14,446	UNIVERSITY OF MICHIGAN	Brenden, Travis	FISHERIES AND WILDLIFE	EVALUATION OF LAMPICIDE TREATMENT DEPLOYMENT STRATEGIES IN AN OPERATING MODEL OF THE CONTROL PROGRAM TO MAXIMIZE REDUCTIONS IN SEA LAMPREY ABUNDANCE
37	\$350,000	MICHIGAN DEPT OF NATURAL RESOURCES	Budnick, William	FISHERIES AND WILDLIFE	MITIGATING RISK OF INVASIVE CRAYFISH INTRODUCTIONS AND SPREAD IN THE GREAT LAKES THROUGH STANDARDIZED EARLY DETECTION PROTOCOLS, SITE PRIORITIZATIONS, AND TRAINING OPPORTUNITIES



**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
38	\$6,957	NATIONAL SCIENCE FOUNDATION	Cheruvellil, Kendra	FISHERIES AND WILDLIFE	COLLABORATIVE RESEARCH: ECR EIE DCL: BROADENING PARTICIPATION OF UNDERREPRESENTED SCHOLARS IN ACADEMIC STEM: THE INFLUENCE OF AN INCLUSIVE CLIMATE ON EARLY-CAREER OUTCOMES
39	\$40,000	GREAT LAKES FISHERY COMMISSION	Jones, Michael	FISHERIES AND WILDLIFE	GREAT LAKES FISHERY COMMISSION SUPPORT FOR THE QUANTITATIVE FISHERIES CENTER
40	\$301,173	NATIONAL SCIENCE FOUNDATION	Liu, Jianguo	FISHERIES AND WILDLIFE	COLLABORATIVE RESEARCH: COMPLEX EFFECTS OF TELECOUPLED ACTIVITIES IN THE CHANGING ENVIRONMENT OF THE ARCTIC
41	\$10,518	MISSISSIPPI STATE UNIV	Loch, Thomas	FISHERIES AND WILDLIFE	IDENTIFICATION OF NOVEL FLAVOBACTERIUM COLUMNARE VACCINE CANDIDATES FOR CATFISH AND OTHER AQUACULTURE FISH SPECIES IN THE SOUTHERN REGION
42	\$82,279	MICHIGAN DEPT OF NATURAL RESOURCES	Murphy, Cheryl	FISHERIES AND WILDLIFE	PFAS IN THE HURON RIVER WATERSHED: TRANSPORT AND UPTAKE BY AQUATIC ORGANISMS
43	\$74,000	US GEOLOGICAL SURVEY	Owen, Jennifer	FISHERIES AND WILDLIFE	RESEARCH MANAGEMENT AND COMMUNICATION PERTAINING TO CONSERVATION GENETICS AND BIODIVERSITY OF AQUATIC SPECIES WITHIN THE GREAT LAKES BASIN
44	\$19,200	NATIONAL COUNCIL FOR AIR & STREAM IMPROVEMENT	Roloff, Gary	FISHERIES AND WILDLIFE	NON-TRADITIONAL SILVICULTURAL SYSTEMS TO RECRUIT DIVERSE NORTHERN HARDWOODS IN LANDSCAPES IMPACTED BY DEER
45	\$249,638	SAULT STE MARIE TRIBE OF CHIPPEWA INDIANS	Roloff, Gary	FISHERIES AND WILDLIFE	MIDWEST TRIBAL WILD RICE MANOOMIN COORDINATION AND PLANNING
46	\$41,645	THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND	Rose, Joan	FISHERIES AND WILDLIFE	DEVELOPMENT OF AN INTEGRATED RAPID NANOPORE PLATFORM FOR BUILDING THE VIROME OF MARINE MAMMALS AND THEIR ASSOCIATED ENVIRONMENTS
47	\$638,000	TEMPLE UNIV	Rose, Joan	FISHERIES AND WILDLIFE	WASTEWATER ANALYSIS FOR SARS-COV2, CITY OF PHILADELPHIA
48	\$310,000	MICHIGAN DEPT OF NATURAL RESOURCES	Roth, Brian	FISHERIES AND WILDLIFE	IMPLEMENTING ADAPTIVE RESPONSES AND ADDRESSING CRITICAL UNCERTAINTIES FOR RED SWAMP CRAYFISH IN MICHIGAN
49	\$221,400	NATIONAL SCIENCE FOUNDATION	Soranno, Patricia	FISHERIES AND WILDLIFE	NSF IPA FOR DR. SORANNO
50	\$68,822	GREAT LAKES FISHERY COMMISSION	Vandergoot, Christopher	FISHERIES AND WILDLIFE	ESTIMATING POPULATION DYNAMICS PARAMETERS USING ACOUSTIC TELEMETRY IN THE GREAT LAKES BASIN
51	\$53,475	ENVIRONMENTAL DEFENSE FUND	Cooper, Lauren	FORESTRY	FOREST + CLIMATE STATE POLICY INITIATIVE
52	\$115,951	CALIFORNIA DEPT OF FORESTRY & FIRE PROTECTION	Cooper, Lauren	FORESTRY	IMPACT OF FOREST MANAGEMENT ON CARBON SEQUESTRATION AND STORAGE IN CALIFORNIA

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
53	\$91,327	NATIONAL SCIENCE FOUNDATION	Stark, Scott	FORESTRY	COLLABORATIVE RESEARCH: ARE AMAZON FOREST TREES SOURCE OR SINK LIMITED? MAPPING HYDRAULIC TRAITS TO CARBON ALLOCATION STRATEGIES TO DECIPHER FOREST FUNCTION DURING DROUGHT
54	\$25,866	MICHIGAN APPLE COMMITTEE	Beaudry, Randolph	HORTICULTURE ANR	APPLE RIPENING AFTER DCA STORAGE: ASSESSING THE RISK OF FLAVOR LOSS
55	\$30,000	MICHIGAN APPLE COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	NEW THINNING STRATEGIES TO IMPROVE APPLE PROFITABILITY AND PREDICTABILITY
56	\$24,773	MICHIGAN APPLE COMMITTEE	Hollender, Courtney	HORTICULTURE ANR	THE BIOLOGICAL MECHANISM BEHIND EARLY AND LATE APPLE SPORTS
57	\$36,000	PROVEN WINNERS NORTH AMERICA LLC	Lopez, Roberto	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF FLORICULTURE RESEARCH
58	\$48,450	AGRICULTURAL RESEARCH SERVICE	Runkle, Erik	HORTICULTURE ANR	ENVIRONMENTAL STRATEGIES AND PGR APPLICATIONS TO INCREASE PLANT RESILIENCE
59	\$12,500	MICHIGAN NURSERY & LANDSCAPE ASSOC	Saha, Debalina	HORTICULTURE ANR	NEW HERBICIDES AND NEW USES FOR MI NURSERY SHRUB CONTAINERS.
60	\$1,355,811	US DEPT OF ENERGY	Rabnawaz, Muhammad	PACKAGING	ALL-POLYESTER MULTILAYER PLASTICS ('ALL-POLYESTER MLPS'): A REDESIGN FOR INHERENTLY RECYCLABLE PLASTICS
61	\$24,991	US ENVIRONMENTAL PROTECTION AGENCY	Rabnawaz, Muhammad	PACKAGING	ELIMINATION OF MICROPLASTICS AND PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) PROBLEMS UPON THE DISPOSAL OF SINGLE-USE PACKAGING
62	\$14,342	MICHIGAN POTATO INDUSTRY COMMISSION	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATING NEW POTATO VARIETIES FOR HERBICIDE SENSITIVITY AND INVESTIGATING INTEGRATED WEED MANAGEMENT STRATEGIES FOR POTATOES
63	\$6,930	BAYER CROPSCIENCE	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	TESTING OF BAYER CROPSCIENCE PRODUCTS
64	\$38,000	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
65	\$91,777	AGRICULTURAL RESEARCH SERVICE	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	MANAGING FHB THROUGH LAB AND FIELD STUDIES
66	\$155,297	NATIONAL SCIENCE FOUNDATION	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	CYTOSKELETAL REGULATION OF IMMUNITY.

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
67	\$30,000	MICHIGAN POTATO INDUSTRY COMMISSION	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	ENHANCING POTATO QUALITY THROUGH GENETIC IMPROVEMENT AND VARIETY DEVELOPMENT
68	\$6,000	MICHIGAN POTATO INDUSTRY COMMISSION	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	INCREASING POTATO PRODUCTION EFFICIENCY USING FOLIAR GROWTH RETARDANTS
69	\$22,225	MICHIGAN TURFGRASS FOUNDATION	Frank, Kevin	PLANT SOIL AND MICROBIAL SCIENCES	2021-22 TURFGRASS RESEARCH
70	\$83,686	AGRICULTURAL RESEARCH SERVICE	Gomez, Francisco	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATION AND OPTIMIZATION OF GENOMIC SELECTION FOR DURABLE WHITE MOLD RESISTANCE IN DRY BEAN
71	\$66,500	AGRICULTURAL RESEARCH SERVICE	Gomez, Francisco	PLANT SOIL AND MICROBIAL SCIENCES	IMPROVED WHITE MOLD RESISTANCE IN DRY AND SNAP BEANS THROUGH MULTI-SITE SCREENING THROUGHOUT MAJOR PRODUCTION AREAS
72	\$201,640	CLEMSON UNIV	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	SOLUTIONS TO THE ARMILLARIA ROOT ROT THREAT AFFECTING THE U.S. STONE FRUIT INDUSTRY
73	\$126,324	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
74	\$17,248	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
75	\$13,310	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
76	\$18,601	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
77	\$57,013	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
78	\$139,834	NATIONAL SCIENCE FOUNDATION	Lebeis, Sarah	PLANT SOIL AND MICROBIAL SCIENCES	CAREER: DEFINING COLONIZATION MECHANISMS AND FUNCTIONS OF STREPTOMYCES STRAINS IN ROOT MICROBIOMES

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
79	\$70,332	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN POTATO RESEARCH TECHNICIAN
80	\$64,977	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN POTATO RESEARCH SALARY FUNDING
81	\$199,500	NATIONAL POTATO PROMOTION BOARD	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	NATIONAL CHIP POTATO VARIETY COMMERCIALIZATION PROGRAM MANAGEMENT
82	\$14,900	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	SCREENING OF YELLOW FLESH AND RED SKINNED POTATO VARIETIES FOR ADAPTATION TO A MICHIGAN PRODUCTION ENVIRONMENT
83	\$7,700	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	SCREENING OF NOVEL RUSSET VARIETIES FOR ADAPTATION TO A MICHIGAN PRODUCTION ENVIRONMENT
84	\$10,600	MICHIGAN TURFGRASS FOUNDATION	Merewitz Holm, Emily	PLANT SOIL AND MICROBIAL SCIENCES	2021-22 TURFGRASS RESEARCH
85	\$10,000	OJ NOER FOUNDATION	Merewitz Holm, Emily	PLANT SOIL AND MICROBIAL SCIENCES	SOIL WATER CONTENT AND ETHYLENE EFFECTS ON ANNUAL BLUEGRASS WINTERKILL
86	\$168,569	CALIFORNIA DEPT OF FORESTRY & FIRE PROTECTION	Miesel, Jessica	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATING FOREST RESILIENCE AND CARBON RECOVERY USING A CHRONOSEQUENCE OF CO-LOCATED PRE-, ACTIVE-, AND POST-WILDFIRE MEASUREMENTS IN CALIFORNIA MIXED-CONIFER FORESTS (PHASE II)
87	\$164,250	MARRONE BIO INNOVATIONS INC	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	GIFT FOR DISEASE MANAGEMENT IN HORTICULTURAL CROPS EXTENSION AND RESEARCH PROGRAM
88	\$31,000	CALIFORNIA DEPT OF FOOD & AGRICULTURE	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MARTIN/MILES - DEVELOPMENT OF A MOLECULAR DIAGNOSTIC ASSAY FOR PYTHIUM UNCINULATUM
89	\$12,100	MICHIGAN TURFGRASS FOUNDATION	Nikolai, Thomas	PLANT SOIL AND MICROBIAL SCIENCES	2021-22 TURFGRASS RESEARCH
90	\$111,507	AGRICULTURAL RESEARCH SERVICE	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	FUSARIUM HEAD BLIGHT RESISTANCE BREEDING AT MSU

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
91	\$10,000	MICHIGAN CROP IMPROVEMENT ASSOC	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT OF SOFT WINTER WHEAT VARIETIES FOR MICHIGAN AND THE GREAT LAKES REGION
92	\$17,400	US GOLF ASSOC	Rogers, John	PLANT SOIL AND MICROBIAL SCIENCES	GOLF BALL REACTION AND SOIL STRENGTH STUDY
93	\$12,700	MICHIGAN TURFGRASS FOUNDATION	Rogers, John	PLANT SOIL AND MICROBIAL SCIENCES	2021-22 TURFGRASS RESEARCH
94	\$20,000	MICHIGAN CROP IMPROVEMENT ASSOC	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATING IMPACTS OF PLANTING DATE AND SEEDING RATE ON WHITETAIL SOFT WHITE WINTER WHEAT
95	\$413,425	INTL INST FOR TROPICAL AGRICULTURE	Snapp, Sieglinde	PLANT SOIL AND MICROBIAL SCIENCES	TRANSFORMING KEY PRODUCTION SYSTEMS: MAIZE MIXED EAST AND SOUTHERN AFRICA
96	\$27,720	BAYER CROPSCIENCE	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	TESTING OF BAYER CROPSCIENCE PRODUCTS
97	\$12,250	MICHIGAN POTATO INDUSTRY COMMISSION	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	SLOW-RELEASE POTASSIUM AND IMPACTS ON POTATO DEVELOPMENT AND YIELD
98	\$6,000	MICHIGAN APPLE COMMITTEE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	FINE-TUNING SHOOT BLIGHT MANAGEMENT WITH APOGEE AND ACTIGARD
99	\$500,000	NATIONAL SCIENCE FOUNDATION	Thomashow, Michael	PLANT SOIL AND MICROBIAL SCIENCES	RESEARCH PGR: THE TEMPERATURE-IMMUNITY NEXUS: ACTIVATION OF IMMUNITY BY LOW TEMPERATURE
100	\$12,400	US GOLF ASSOC	Vargas, Joseph	PLANT SOIL AND MICROBIAL SCIENCES	USGA
101	\$77,025	AGRICULTURAL RESEARCH SERVICE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING SOYBEAN VARIETIES WITH RESISTANCE TO SCLEROTINIA STEM ROT
102	\$30,000	MICHIGAN POTATO INDUSTRY COMMISSION	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	IMPROVEMENT OF INTEGRATED MANAGEMENT STRATEGIES FOR POTATO FOLIAR, SEED, AND POSTHARVEST DISEASE CONCERNS IN MICHIGAN

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
103	\$109,042	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
104	\$121,174	NATIONAL SCIENCE FOUNDATION	Zhao, Dong	SCHOOL OF PLANNING DES CONSTRUCTION ANR	SRS: U.S.-CHINA: INFRASTRUCTURE-DRIVEN DECISION SYSTEM FOR SUSTAINABLE AND EQUITABLE URBAN-RURAL DEVELOPMENT
<b>COLLEGE OF ARTS AND LETTERS</b>					
105	\$155,911	NOVO FOUNDATION	Brown, Ruth	AFRICAN AMERICAN AND AFRICAN STUDIES	SAVING OUR LIVES HEAR OUR TRUTHS (SOLHOT)
106	\$76,000	ISRAEL INST	Aronoff, Yael	AL RESEARCH AND SCHOLARSHIP	SERLING ISRAELI VISITING SCHOLAR AND ISRAEL INSTITUTE VISITING PROFESSOR
107	\$69,000	NATIONAL WRITING PROJECT CORP	Smith, Trixie	ARTS AND LETTERS WRITING CENTER	WELCOME BACK TO CADL
108	\$168,927	US DEPT OF EDUCATION	Kronenberg, Felix	CENTER FOR LANGUAGE TEACHING ADVANCEMENT	NATIONAL LESS COMMONLY TAUGHT LANGUAGES RESOURCE CENTER
<b>ELI BROAD COLLEGE OF BUSINESS</b>					
109	\$10,000	NEGOTIATION & TEAM RESOURCES	Hollenbeck, John	ELI BROAD COLLEGE OF BUSINESS DEAN	EMBRACING THE OPEN SYSTEM PARADIGM: A MULTITEAM SYSTEM APPROACH TO BETWEEN-TEAM NEGOTIATIONS
110	\$304,230	US DEPT OF EDUCATION	Kirca, Ahmet	INTERNATIONAL BUSINESS CENTER	CENTER FOR INTERNATIONAL BUSINESS EDUCATION RESEARCH: GLOBAL MINDSET DEVELOPMENT, ENGAGEMENT AND DISCOVERY FOR INTERNATIONAL COMPETITIVENESS
111	\$113,277	US ARMY RESEARCH INST FOR THE BEHAVIORAL & SOCIAL SCIENCES	Morgeson, Frederick	MANAGEMENT	THE CONTEXT OF UNIT RESILIENCE: EXPLORING THE ROLE OF DISRUPTIVE EVENTS IN CHALLENGING OR PROMOTING UNIT RESILIENCE AND EFFECTIVENESS (RESEARCH TOPIC C.1)
<b>COLLEGE OF COMMUNICATION ARTS SCIENCES</b>					
112	\$300,259	NATIONAL SCIENCE FOUNDATION	Alade, Fashina	ADVERTISING AND PUBLIC RELATIONS	BCSER: IID: USING CHILD-CENTERED QUALITATIVE AND MULTI-METHOD APPROACHES TO INVESTIGATE CHILDREN'S UNDERSTANDING OF RACIAL DIVERSITY CUES IN STEM-FOCUSED EDUCATIONAL TELEVISION
113	\$706,524	NATIONAL SCIENCE FOUNDATION	Besley, John	ADVERTISING AND PUBLIC RELATIONS	COLLABORATIVE RESEARCH: ADVANCING PUBLIC ENGAGEMENT WITH SCIENCE ACROSS THE LONG-TERM ECOLOGICAL RESEARCH NETWORK

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
114	\$59,500	WGBH EDUCATIONAL FOUNDATION	Turner, Shawn	BROADCASTING SERVICES	NOVA SCIENCE STUDIOS
115	\$86,347	CALVIN UNIVERSITY	Eden, Allison	COMMUNICATION	CHARACTER ENGAGEMENT AND MORAL UNDERSTANDING IN SCREEN STORIES
116	\$80,389	HENRY FORD HEALTH SYSTEM	Turner, Monique	COMMUNICATION	ALL OF US RESEARCH PROGRAM
117	\$161,998	NATIONAL INST OF HEALTH	Searl, Jeffrey	COMMUNICATIVE SCIENCES DISORDERS CAS	TRACHEOSTOMY AND LARYNGECTOMY CARE: VIRTUAL REALITY TRAINING FOR HEALTH PROFESSIONALS
118	\$82,763	NATIONAL INST OF HEALTH	Walsh, Bridget	COMMUNICATIVE SCIENCES DISORDERS CAS	DEVELOPMENTAL TRAJECTORIES TO STUTTERING PERSISTENCE AND RECOVERY
119	\$442,860	NATIONAL INST OF HEALTH	Yaruss, J Scott	COMMUNICATIVE SCIENCES DISORDERS CAS	STUTTERING IN THE REAL WORLD: QUANTIFYING VARIABILITY TO IMPROVE MEASUREMENT RELIABILITY AND VALIDITY
120	\$10,000	SOLUTIONS JOURNALISM NETWORK	Poulson, David	JOURNALISM	SOLUTIONS SWAT
121	\$6,000	UNIVERSITY OF MICHIGAN	Poulson, David	JOURNALISM	REQUEST FOR CIGLR ECO PROGRAM SUPPORT
<b>COLLEGE OF EDUCATION</b>					
122	\$199,999	NATIONAL SECURITY AGENCY	Li, Jiahang	CED INTERNATIONAL STUDIES IN EDUCATION	STARTALK FOR CHINESE LANGUAGE TEACHERS: ASSESSMENT AND STEAM
123	\$92,667	VARIOUS SCHOOLS	Beverly, Bryan	CED OUTREACH	K-12 SCHOOL IMPROVEMENT TRAINING
124	\$500,000	FLINT COMMUNITY SCHOOLS	Beverly, Bryan	CED OUTREACH	FLINT FELLOWSHIP OF INSTRUCTIONAL LEADERS 2022-2023
125	\$382,834	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
126	\$24,997	HOPE NETWORK WEST MICHIGAN	Witmer, Sara	COUNSELING, EDUC PSYCH & SPEC EDUC	MICHIGAN EDUCATION CORPS (MEC) READING CORPS EVALUATION
127	\$449,960	NATIONAL SCIENCE FOUNDATION	He, Peng	CREATE FOR STEM	DEVELOPING AND TESTING A LEARNING PROGRESSION FOR MIDDLE SCHOOL PHYSICAL SCIENCE INCORPORATING DISCIPLINARY CORE IDEAS, SCIENCE AND ENGINEERING PRACTICES, AND CROSSCUTTING CONCEPTS
128	\$30,056	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
129	\$50,000	VARIOUS SCHOOLS	Paine, Lynn	EDUCATION DEAN	CHINESE TEACHER CERTIFICATION PROGRAM

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
130	\$970,129	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
131	\$400,000	SMITH RICHARDSON FOUNDATION	Strunk, Katharine	EDUCATION POLICY CENTER	EPIC MICHIGAN RESEARCH PARTNERSHIP
132	\$20,000	AMER INSTS FOR RESEARCH	Strunk, Katharine	EDUCATION POLICY CENTER	AIR CALDER WALTON
133	\$75,000	JOYCE FOUNDATION	Strunk, Katharine	EDUCATION POLICY CENTER	MICHIGAN TEACHER WORKFORCE - RESEARCH EXPLORATION
134	\$25,004	AMER INSTS FOR RESEARCH	Strunk, Katharine	EDUCATION POLICY CENTER	CALDER 4.0
135	\$28,851	UNIVERSITY OF WISCONSIN	Gonzales, Leslie	EDUCATIONAL ADMINISTRATION	COLLABORATIVE RESEARCH: NSF INCLUDES ALLIANCE: AN ALLIANCE TO DEVELOP AN INCLUSIVE AND DIVERSE NATIONAL FACULTY FOR BROADENING SUCCESS OF UNDERREPRESENTED 2-YEAR AND 4-YEAR STEM STUDENTS
136	\$10,000	ARIZONA STATE UNIV	Renn, Kristen (she/her)	EDUCATIONAL ADMINISTRATION	UIA DOCTORAL RESEARCH FELLOWSHIP PROGRAM
137	\$27,376	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)
138	\$22,999	NATIONAL ATHLETIC TRAINERS ASSOC	Harkey, Matthew	KINESIOLOGY - ED	CLINICALLY ACCESSIBLE STRATEGY FOR MONITORING EFFUSION-SYNOVITIS AND WALKING BIOMECHANICS TO PREDICT EARLY OSTEOARTHRITIS SYMPTOMS FOLLOWING ACL RECONSTRUCTION
139	\$47,785	INOVA HEALTH SYSTEMS	Kuenze, Christopher	KINESIOLOGY - ED	CLINICAL OUTCOMES AFTER ORTHOPAEDIC SURGERY
140	\$75,000	BOARD OF MEDICINE	Pontifex, Matthew	KINESIOLOGY - ED	DOUBLE-BLIND RANDOMIZED PLACEBO-CONTROLLED TRIAL OF THE EFFICACY OF THE APOLLO SYSTEM FOR CHILDREN WITH ADHD
141	\$31,765	STRATEGIC EDUCATION RESEARCH PARTNERSHIP INSTITUTE	Al-Adeimi, Shireen	TEACHER EDUCATION	ACADEMICALLY PRODUCTIVE TALK: STRENGTHENING THE INFRASTRUCTURE FOR RESEARCH AND PRACTICE
142	\$236,107	NATIONAL SCIENCE FOUNDATION	Bieda, Kristen	TEACHER EDUCATION	COLLABORATIVE RESEARCH: ADVANCING EQUITY GOALS IN SECONDARY CLASSROOMS BY INCORPORATING MATHEMATICAL JUSTIFICATION IN TEACHING
143	\$103,441	UNIVERSITY OF MICHIGAN	Halvorsen, Anne-Lise	TEACHER EDUCATION	GREAT FIRST EIGHT
144	\$475,886	NATIONAL SCIENCE FOUNDATION	Richmond, Gail	TEACHER EDUCATION	TEACHING SCIENCE OUTDOORS: A NEXT GENERATION APPROACH FOR ADVANCING ELEMENTARY SCIENCE TEACHING IN URBAN COMMUNITIES



**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
145	\$49,974	SPENCER FOUNDATION	Tortorelli, Laura	TEACHER EDUCATION	DOCUMENTING TEACHERS' TECHNOLOGICAL PEDAGOGICAL CONTENT KNOWLEDGE FOR READING INSTRUCTION: A COLLABORATIVE CONTENT ANALYSIS OF DIGITAL TEXT PROGRAMS
<b>COLLEGE OF ENGINEERING</b>					
146	\$300,000	NATIONAL SCIENCE FOUNDATION	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	IRES TRACK I: CHARACTERIZATION AND MODELING OF GRAIN BOUNDARIES IN HEXAGONAL AND BODY CENTERED CUBIC ALLOYS: LINKING PROCESSING AND PROPERTIES
147	\$26,384	MASSACHUSETTS GENERAL HOSPITAL	Gilad, Assaf	CHEMICAL ENGINEERING AND MATERIALS SCI	ARTIFICIAL INTELLIGENCE BOOSTED EVOLUTION AND DETECTION OF GENETICALLY ENCODED REPORTERS FOR IN VIVO IMAGING
148	\$64,567	NATIONAL SCIENCE FOUNDATION	Zevalkink, Alexandra	CHEMICAL ENGINEERING AND MATERIALS SCI	CAREER: DECOUPLING STRUCTURE AND COMPOSITION WITH ZINTL POLYMORPHS
149	\$515,000	US DEPT OF ENERGY	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	INDUSTRIAL ASSESSMENT CENTER AT MICHIGAN STATE UNIVERSITY
150	\$128,004	CHINA NATIONAL PETROLEUM CORP USA	Dargazany, Roozbeh	CIVIL AND ENVIRONMENTAL ENGINEERING	FEPM FAILURE MECHANISM STUDIES UNDER HPHT CORROSIVE ENVIRONMENTS: PREDICTING MATERIAL SERVICE LIFE
151	\$10,000	MICHIGAN OFFICE OF HIGHWAY SAFETY PLANNING	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	SEAT BELT AND HAND-HELD DEVICE USE DIRECT OBSERVATION SURVEY (FY22)
152	\$19,999	HNTB CORP	Ghamami, Mehrnaz	CIVIL AND ENVIRONMENTAL ENGINEERING	STRATEGIC PLAN FOR MDOT ELECTRIFICATION
153	\$120,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Ghamami, Mehrnaz	CIVIL AND ENVIRONMENTAL ENGINEERING	ANALYZING THE BENEFITS AND CHALLENGES OF 2ND-LIFE BATTERIES AS STORAGE SYSTEMS FOR DCFC STATIONS
154	\$300,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Ghamami, Mehrnaz	CIVIL AND ENVIRONMENTAL ENGINEERING	OPTIMIZE PLACEMENT OF LIGHT-DUTY ELECTRIC VEHICLE FAST-CHARGING INFRASTRUCTURE ACROSS MICHIGAN CONSIDERING STATE REQUIREMENTS AND IN ALIGNMENT WITH NATIONAL ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM
155	\$135,000	NATIONAL ACADEMY OF SCIENCES	Haider, Syed	CIVIL AND ENVIRONMENTAL ENGINEERING	LOW-COST SENSING SYSTEM FOR THE DETECTION AND CLASSIFICATION OF SUPER-SINGLE WHEEL TYPES AND DISTRIBUTION AT THE NETWORK LEVEL

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
156	\$103,550	NATIONAL SCIENCE FOUNDATION	Pokhrel, Yadu	CIVIL AND ENVIRONMENTAL ENGINEERING	CAREER: HUMANS, WATER, AND CLIMATE: ADVANCING RESEARCH AND EDUCATION ON WATER RESOURCE SUSTAINABILITY IN MANAGED LAND-WATER SYSTEMS USING AN INTEGRATED HYDROLOGICAL MODELING FRAMEWORK
157	\$106,053	NATIONAL SCIENCE FOUNDATION	Pokhrel, Yadu	CIVIL AND ENVIRONMENTAL ENGINEERING	BELMONT FORUM COLLABORATIVE RESEARCH: BIOSPHERE AND LAND USE EXCHANGES WITH GROUNDWATER AND SOILS IN EARTH SYSTEM MODELS (BLUEGEM)
158	\$281,817	NATIONAL SCIENCE FOUNDATION	Ravishankar, Saiprasad	COMPUTATIONAL MATH SCI AND ENGR EGR	CIF: MEDIUM: TAMING DEEP UNSUPERVISED REPRESENTATION LEARNING IN IMAGING: THEORY AND ALGORITHMS
159	\$303,254	NATIONAL SCIENCE FOUNDATION	Dolson, Emily	COMPUTER SCIENCE AND ENGINEERING	COLLABORATIVE RESEARCH: FROM ECOLOGICAL DYNAMICS TO ADAPTIVE EVOLUTION DURING THE ORIGIN OF LIFE
160	\$62,977	HENRY FORD HEALTH SYSTEM	Ghassemi, Mohammad	COMPUTER SCIENCE AND ENGINEERING	DEVELOPMENT AND IMPLEMENTATION OF MACHINE LEARNING BASED NOVEL CLINICAL DECISION SUPPORT TOOL FOR LUNG CANCER PATIENTS
161	\$113,000	NATIONAL SCIENCE FOUNDATION	Kordjamshidi, Parisa	COMPUTER SCIENCE AND ENGINEERING	CAREER: COMBINING LEARNING AND REASONING FOR SPATIAL LANGUAGE UNDERSTANDING
162	\$299,998	NATIONAL SCIENCE FOUNDATION	Mutka, Matt	COMPUTER SCIENCE AND ENGINEERING	EAGER: SYSTEMS OF HOLOGRAPHIC OPTICAL TAGS FOR SCALABLE AND COLLABORATIVE MOBILE INFRASTRUCTURES
163	\$15,000	NEW JERSEY INST OF TECHNOLOGY	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	KNOWLEDGE GRAPH COMPLETION
164	\$39,000	NATIONAL SCIENCE FOUNDATION	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	SDM2022 STUDENT TRAVEL GRANT
165	\$102,522	NATIONAL SCIENCE FOUNDATION	Zeng, Huacheng	COMPUTER SCIENCE AND ENGINEERING	CAREER: MIMO-BASED BLIND INTERFERENCE CANCELLATION FOR WIRELESS NETWORKING
166	\$118,507	NATIONAL SCIENCE FOUNDATION	Zhou, Jiayu	COMPUTER SCIENCE AND ENGINEERING	CAREER: HARNESS THE BIG DATA VIA LARGE-SCALE LIFELONG LEARNING
167	\$37,500	KBR	Albrecht, John	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPMENT OF A HIGH-ELECTRIC FIELD CARRIER MOBILITY MODELING TOOL BASED ON THE FIRST-PRINCIPLES EPW PACKAGE

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
168	\$55,871	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER CENTER RENEWAL
169	\$593,145	NATIONAL SCIENCE FOUNDATION	Aviyente, Selin	ELECTRICAL AND COMPUTER ENGINEERING	CIF: SMALL: MULTIVIEW GRAPH LEARNING WITH APPLICATIONS TO SINGLE CELL GENE EXPRESSION NETWORKS
170	\$31,485	MICHIGAN SPACE GRANT CONSORTIUM	Ayres, Virginia	ELECTRICAL AND COMPUTER ENGINEERING	MICHIGAN SPACE GRANT CONSORTIUM / MICHIGAN STATE
171	\$20,316	ARGONNE NATIONAL LABORATORY	Baryshev, Sergey	ELECTRICAL AND COMPUTER ENGINEERING	TRAVEL TO ADVANCED PHOTON SOURCE, ARGONNE NATIONAL LAB
172	\$98,000	OFFICE OF NAVAL RESEARCH	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	AI-ENABLED EFFICIENT FIBER-OPTIC SENSOR/ACTUATION SYSTEM USING DEEP NEURAL NETWORKS (DNNS) AND INFORMATION FUSION
173	\$690,000	GREAT LAKES PROTECTION FUND	Fan, Qi	ELECTRICAL AND COMPUTER ENGINEERING	PERMANENT DESTRUCTION OF PFAS IN LANDFILL LEACHATES AND WASTEWATER
174	\$144,295	OFFICE OF NAVAL RESEARCH	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	OPTICAL FIBER-COIL SENSORS FOR STRUCTURAL HEALTH MONITORING (TRACKING ID 20-000001103)
175	\$150,000	OFFICE OF NAVAL RESEARCH	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	ONR WHITE PAPER TRACKING NUMBER 22-000001728: FIBER-OPTIC ACOUSTIC EMISSION SENSOR SYSTEMS WITH SINGLE-SIDEBAND LASER INTERROGATION
176	\$93,049	NATIONAL SCIENCE FOUNDATION	Li, Tongtong	ELECTRICAL AND COMPUTER ENGINEERING	CCSS: BRAIN NETWORK ANALYSIS USING COMMUNICATION THEORY
177	\$30,000	SANDIA NATIONAL LABORATORIES	Mitra, Joydeep	ELECTRICAL AND COMPUTER ENGINEERING	2020 US DOE ENERGY STORAGE HANDBOOK
178	\$150,000	TOYOTA MOTOR CORP	Nicley, Shannon	ELECTRICAL AND COMPUTER ENGINEERING	RESEARCH FOR THE DEVELOPMENT OF ENHANCING THE SENSING CAPABILITY IN QUANTUM SENSING SYSTEMS WITH NV-CENTER MATERIALS
179	\$156,248	NATIONAL INST OF HEALTH	Purcell, Erin	ELECTRICAL AND COMPUTER ENGINEERING	SPATIAL TRANSCRIPTOMICS AT THE INTERFACE OF IMPLANTED ELECTRODES IN THE BRAIN

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
180	\$10,000	NATIONAL SCIENCE FOUNDATION	Udpa, Lalita	ELECTRICAL AND COMPUTER ENGINEERING	MANUFACTURING USA: MICROWAVE NDE WITH METAMATERIAL LENS FOR HIGH RESOLUTION CHARACTERIZATION OF MULTIMATERIAL INTERFACES IN COMPOSITE
181	\$1,116,650	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Verboncoeur, John	ELECTRICAL AND COMPUTER ENGINEERING	MULTIPACTOR AND BREAKDOWN SUSCEPTIBILITY AND MITIGATION IN SPACE-BASED RF SYSTEMS
182	\$44,394	NATIONAL INST OF HEALTH	Aguirre, Aitor	INSTITUTE FOR QUANTITATIVE HEALTH	OXYLIPIN SIGNALING IN CONGENITAL HEART DISEASE
183	\$468,541	NATIONAL INST OF HEALTH	Bhattacharya, Sudin	INSTITUTE FOR QUANTITATIVE HEALTH	INTEGRATIVE TRANSCRIPTIONAL AND EPIGENOMIC MODELING OF XENOBIOTIC-ACTIVATED GENE REGULATORY NETWORKS
184	\$564,380	NATIONAL INST OF HEALTH	Gilad, Assaf	INSTITUTE FOR QUANTITATIVE HEALTH	EVOLUTION AND OPTIMIZATION OF SYNTHETIC <READ/WRITE> FUNCTION FROM AND INTO CELLS USING GENETIC PROGRAMMING
185	\$20,000	SOCIETY FOR REPRODUCTIVE INVESTIGATION	Kim, Taeho	INSTITUTE FOR QUANTITATIVE HEALTH	DEVELOPMENT OF THERANOSTIC NANOPARTICLES FOR NONINVASIVE IMAGING AND TREATMENT OF ENDOMETRIOSIS
186	\$454,913	NATIONAL INST OF HEALTH	Smith, Bryan	INSTITUTE FOR QUANTITATIVE HEALTH	MACROPHAGE-SPECIFIC NANOTHERAPY FOR BREAST CANCER
187	\$42,469	STANFORD UNIV	Smith, Bryan	INSTITUTE FOR QUANTITATIVE HEALTH	PRECISION NANOTHERAPIES FOR CARDIOVASCULAR DISEASE
188	\$22,500	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Smith, Bryan	INSTITUTE FOR QUANTITATIVE HEALTH	BIONIC CELLS: CAR-T CELL NANOTOW-TRUCKS FOR ENHANCED TUMOR LOCALIZATION
189	\$43,805	NATIONAL INST OF HEALTH	Spence, Dana	INSTITUTE FOR QUANTITATIVE HEALTH	FROM SINGLE MOLECULE TO MICROFLUIDIC 3D TISSUE PLATFORMS: NOVEL MULTISCALE TOOLS TO INVESTIGATE HYPER-STIMULATED IMMUNE CELLS IN THE CIRCULATION
190	\$503,764	NATIONAL INST OF HEALTH	Spence, Dana	INSTITUTE FOR QUANTITATIVE HEALTH	AN IMPROVED RED BLOOD CELL STORAGE PRODUCT AND EXTENDED SHELF LIFE USING A NORMOGLYCEMIC ADDITIVE SOLUTION
191	\$50,000	NATIONAL SCIENCE FOUNDATION	Bush, Tamara	MECHANICAL ENGINEERING	APEX: AN INNOVATIVE WHEELCHAIR DESIGN THAT SHIFTS BODY PRESSURES AUTOMATICALLY TO PREVENT TISSUE DAMAGE AND INJURY
192	\$150,000	HYUNDAI MOTOR CO	Chung, Haseung	MECHANICAL ENGINEERING	SCALABLE AND EXPEDITIOUS ADDITIVE MANUFACTURING (SEAM) FOR AUTOMOTIVE APPLICATION

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
193	\$319,206	UNIVERSITY OF CONNECTICUT	Chung, Haseung	MECHANICAL ENGINEERING	TOPOLOGY OPTIMIZATION OF ADDITIVELY MANUFACTURED HEAT-EXCHANGER PLATES FOR ENHANCED PERFORMANCE (TOP-HEX)
194	\$263,288	NATIONAL SCIENCE FOUNDATION	Fan, Bei	MECHANICAL ENGINEERING	COLLABORATIVE PROPOSAL: ENHANCED ELECTRICITY GENERATION THROUGH LIQUID FLOW OVER DURABLE SLIPPERY SURFACES
195	\$152,806	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Khasawneh, Firas	MECHANICAL ENGINEERING	ZIGZAG PERSISTENT HOMOLOGY AND NETWORK METHODS FOR TOPOLOGICAL SIGNAL PROCESSING
196	\$160,228	CALIFORNIA MEDICAL INNOVATIONS INST	Lee, Lik-Chuan	MECHANICAL ENGINEERING	MECHANISMS OF CORONARY FLOW HETEROGENEITY: IMPLICATIONS FOR CORONARY SINUS OCCLUSION THERAPY
197	\$69,446	AMER HEART ASSOC	Lee, Lik-Chuan	MECHANICAL ENGINEERING	ROLE OF CORONARY PERFUSION IN RIGHT HEART FAILURE
198	\$150,871	UNIVERSITY OF KENTUCKY	Lee, Lik-Chuan	MECHANICAL ENGINEERING	DATA-DRIVEN OPTIMIZATION OF THERAPY FOR HEART FAILURE
199	\$200,496	US DEPT OF THE ARMY	Mejia, Ricardo	MECHANICAL ENGINEERING	LABORATORY BLAST OF HYBRID COMPOSITES
200	\$594,634	US DEPT OF ENERGY	Randhir, Kelvin	MECHANICAL ENGINEERING	SOLID STATE SOLAR THERMOCHEMICAL FUEL (SOFUEL) FOR LONG DURATION STORAGE
201	\$152,000	OFFICE OF NAVAL RESEARCH	Tai, Wei-Che	MECHANICAL ENGINEERING	CONCURRENT VIBRATION CONTROL AND ENERGY HARVESTING OF ELECTRICALLY INTERCONNECTED SUSPENSION WITH NONLINEAR ENERGY HARVESTING SHOCK ABSORBERS
202	\$194,775	NATIONAL SCIENCE FOUNDATION	Toulson, Elisa	MECHANICAL ENGINEERING	IGNITION AND FLAME SPEED CHARACTERISTICS OF H2/AIR/EXHAUST GAS MIXTURES
<b>COLLEGE OF HUMAN MEDICINE</b>					
203	\$18,447	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.
204	\$40,250	NATIONAL SURGICAL ADJUVANT BREAST & BOWEL PROJECT FOUNDATION	Rana, Jatin	CANCER CENTER	B-59 /GBG 96 GEPARDOUZA RANDOMIZED, DOUBLE-BLIND, PHASE III CLINICAL TRIAL OF NEOADJUVANT CHEMOTHERAPY WITH ATEZOLIZUMAB OR PLACEBO
205	\$23,455	BIG TEN CANCER RESEARCH CONSORTIUM	Rana, Jatin	CANCER CENTER	BTCRC-BRE-16-042 PHASE III STUDY OF PEMBROLIZUMAB PLUS FULVESTRANT IN HORMONE RECEPTOR POSITIVE HER-2 NEGATIVE ADVANCE/METASTATIC BREAST CANCER PATIENTS
206	\$497,790	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

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
207	\$100,000	COMMUNITY FOUNDATION OF GREATER FLINT	Custack, Amy	CHM FLINT	PEDIATRIC PRODUCE PRESCRIPTIONS FOR HEALTH
208	\$24,000	NATL ASSOC OF COUNTY & CITY HEALTH OFFICIALS	Esch, Gurbaksh	CHM FLINT	PEDIATRIC PUBLIC HEALTH INITIATIVE IN FLINT, MICHIGAN
209	\$203,561	UNIVERSITY OF IOWA	Hanna-Attisha, Mona	CHM FLINT	HEALTHY HOMES NEED HEALTHY WATER: DEVELOPING AND IMPLEMENTING A LEAD IN DRINKING WATER ASSESSMENT TOOL
210	\$659,046	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Johnson, Jennifer	CHM FLINT	IPT FOR MAJOR DEPRESSION FOLLOWING PERINATAL LOSS
211	\$66,665	UNIVERSITY OF MICHIGAN	Key, Kent	CHM FLINT	RECRUITING AND RETAINING OLDER AFRICAN AMERICANS INTO RESEARCH (ROAR)
212	\$25,000	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Lucas, Todd	CHM FLINT	A PRELIMINARY EXPLORATION OF CULTURALLY TARGETED COMMUNICATION TO REDUCE LUNG CANCER SCREENING DISPARITIES IN METROPOLITAN DETROIT
213	\$177,404	NATIONAL HEART LUNG & BLOOD INST	Lucas, Todd	CHM FLINT	THE RESEARCH TO REDUCE DISPARITIES IN DISEASE (R2D2)
214	\$18,464	OAKLAND UNIV	Lucas, Todd	CHM FLINT	COLORECTAL SCREENING FEAR-REDUCTION AND RACIALLY-TARGETED NORM MESSAGING ENTREATIES TO INCREASE COLORECTAL CANCER SCREENING RATES AMONG AFRICAN AMERICANS
215	\$34,274	NATIONAL INST OF HEALTH	Ondersma, Steven	CHM FLINT	ACCELERATING COLLABORATIVE, CUMULATIVE, AND OPEN INTERVENTION SCIENCE WITH AN E-INTERVENTION AUTHORIZING PLATFORM
216	\$77,592	HENRY FORD HEALTH SYSTEM	Ondersma, Steven	CHM FLINT	SBI-TECH MICHIGAN: OPTIMIZING SBI IMPLEMENTATION FOR ALCOHOL USE AMONG WOMEN OF CHILDBEARING AGE
217	\$100,000	MICHIGAN HEALTH ENDOWMENT FUND	Uphold, Heatherlun	CHM FLINT	HEALTH EQUITY REPORT CARD
218	\$1,615,000	CENTERS FOR DISEASE CONTROL & PREVENTION	Uphold, Heatherlun	CHM FLINT	THE NATIONAL NETWORK TO INNOVATE FOR COVID-19 AND ADULT VACCINE EQUITY (NNICE)
219	\$125,000	MERCY HEALTH SAINT MARYS	Dwyer, Jeffrey	CHM WEST MICHIGAN	MSU-ST. MARY'S TRANSLATIONAL MEDICINE IN GRAND RAPIDS
220	\$24,400	UNIVERSITY OF MICHIGAN	Bender, Andrew	EPIDEMIOLOGY AND BIOSTATISTICS	WHITE MATTER MICROSTRUCTURE AND COGNITIVE PLASTICITY: NEW MARKERS OF RESILIENCE IN ADRD
221	\$35,601	UNIVERSITY OF MICHIGAN	Bohnert, Kipling	EPIDEMIOLOGY AND BIOSTATISTICS	FACILITATING USE OF THE NATIONAL SUICIDE PREVENTION LIFELINE IN ALCOHOL PATIENTS
222	\$579,330	NATIONAL INST OF HEALTH	Chen, Honglei	EPIDEMIOLOGY AND BIOSTATISTICS	POOR SENSE OF SMELL AND THE HEALTH OF OLDER ADULTS

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
223	\$10,000	MICHIGAN PUBLIC HEALTH INST	Gartner, Danielle	EPIDEMIOLOGY AND BIOSTATISTICS	MI TRIBAL RISK FACTOR SURVEY ANALYSIS
224	\$30,004	UNIVERSITY OF MICHIGAN	Margerison, Claire	EPIDEMIOLOGY AND BIOSTATISTICS	STRUCTURAL RACISM AND ADVERSE BIRTH OUTCOMES IN THE US SOUTH: A MULTIGENERATIONAL PERSPECTIVE
225	\$381,888	NATIONAL INST OF HEALTH	Margerison, Claire	EPIDEMIOLOGY AND BIOSTATISTICS	POLICY CHANGE AND WOMEN'S HEALTH
226	\$150,000	WAYNE STATE UNIV	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	VACCINE EVALUATION
227	\$31,978	UNIVERSITY OF CENTRAL FLORIDA	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	SOCIAL STRESSORS AND INFLAMMATION: A MIXED METHODS APPROACH TO PRETERM BIRTH
228	\$332,563	NATIONAL INST ON DEAFNESS & OTHER COMMUNICATION DISORDERS	Talge, Nicole	EPIDEMIOLOGY AND BIOSTATISTICS	FALSE POSITIVE NEWBORN HEARING SCREENING RESULTS AND AUTISM SPECTRUM DISORDER
229	\$78,250	NATIONAL INST OF HEALTH	de los Campos, Gustavo	EPIDEMIOLOGY AND BIOSTATISTICS	PLEIOTROPY: A POWERFUL AND FAST TEST AND SOFTWARE FOR THE STUDY OF PLEIOTROPY IN SYSTEMS INVOLVING MANY TRAITS WITH BIOBANK-SIZED DATA
230	\$125,248	ARAB COMMUNITY CENTER FOR ECONOMIC & SOCIAL SERVICES	Arnetz, Bengt	FAMILY MEDICINE, DEPARTMENT OF	IMPACT OF EARNED INCOME TAX CREDIT RECEIPT ON REDUCING RISK FACTORS FOR AND ENHANCING PROTECTIVE FACTORS AGAINST ADVERSE CHILDHOOD EXPERIENCES
231	\$55,000	BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION	Cunningham, Natoshia	FAMILY MEDICINE, DEPARTMENT OF	ENGAGING SCHOOL NURSES AND ALLIED PROFESSIONAL TO MANAGE STUDENT PAIN IN RURAL COMMUNITIES
232	\$100,000	MICHIGAN HEALTH ENDOWMENT FUND	Cunningham, Natoshia	FAMILY MEDICINE, DEPARTMENT OF	EMPOWERING SCHOOL PROVIDERS TO ADDRESS CHILD PAIN
233	\$69,802	NATIONAL INST OF HEALTH	Heyza, Joshua	INSTITUTE FOR QUANTITATIVE HEALTH	DEFINING THE MECHANISM OF SHIELDIN COMPLEX IN DNA END JOINING
234	\$306,583	NATIONAL INST OF HEALTH	Schmidt, Jens	INSTITUTE FOR QUANTITATIVE HEALTH	DEFINING THE ROLE OF TCAB1 AND ITS PHASE SEPARATION IN TELOMERASE ASSEMBLY.
235	\$676,704	NATIONAL INST FOR OCCUPATIONAL SAFETY & HEALTH	Rosenman, Kenneth	MEDICINE	EXPANDED PROGRAM IN OCCUPATIONAL INJURY AND ILLNESS SURVEILLANCE
236	\$21,500	ASSOC OF OCCUPATIONAL & ENVIRONMENTAL CLINICS	Rosenman, Kenneth	MEDICINE	OEC EXPOSURE CODE SYSTEM UPDATES

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
237	\$74,857	AMGEN INC	Charleston, Larry	NEUROLOGY & OPHTHALMOLOGY CHM	COMPETITIVE GRANT PROGRAM IN MIGRAINE RESEARCH
238	\$5,250	BURROUGHS WELLCOME FUND	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	SUPPORT FOR URM STUDENTS TO ATTEND THE 2022 SSR MEETING
239	\$69,232	NATIONAL INST OF HEALTH	Latham, Keith	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	REPRODUCTIVE AND DEVELOPMENTAL SCIENCES TRAINING PROGRAM - T32
240	\$179,252	NATIONAL CANCER INST	MacKeigan, Jeffrey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THERAPEUTIC POTENTIAL OF TARGETING DNA REPAIR DEFICIENCY IN TSC
241	\$2,152,487	US DEPT OF THE ARMY	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	DEFINING ENDOMETRIOSIS PHYSIOLOGIC SUB-PHENOTYPES AND SUBSEQUENT CANCER AND COMORBIDITIES RISK THROUGH DISCOVERY OF NOVEL GENETIC VARIANTS
242	\$63,333	SPECTRUM HEALTH SYSTEM	Roman, Leeanne	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	HEALTHY START INITIATIVE: ELIMINATING DISPARITIES IN PERINATAL HEALTH
243	\$15,419	GENENTECH INC	Jobe, Shawn	PEDIATRICS AND HUMAN DEVELOPMENT	MO41787: A PHASE IIIB MULTICENTER OPEN-LABEL SINGLE-ARM STUDY TO EVALUATE THE EFFICACY, SAFETY, PK AND PD OF SUBCUTANEOUS EMICIZUMAB IN PATIENTS FROM BIRTH - 12 MO AGE WITH HEMOPHILIA A W/O INHIBITORS
244	\$30,000	HEMOPHILIA FOUNDATION OF MICHIGAN	Jobe, Shawn	PEDIATRICS AND HUMAN DEVELOPMENT	MATERNAL CHILD HEALTH BUREAU (MCHB) GRANT
245	\$300,000	CASCADE HEMOPHILIA CONSORTIUM	Jobe, Shawn	PEDIATRICS AND HUMAN DEVELOPMENT	CASCADE HEMOPHILIA CONSORTIUM
246	\$8,900	AMER THROMBOSIS & HEMOSTASIS NETWORK	Jobe, Shawn	PEDIATRICS AND HUMAN DEVELOPMENT	ATHN DATA QUALITY COUNTS 13
247	\$18,089	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
248	\$525,109	NATIONAL INST OF HEALTH	Li, Xiaopeng	PEDIATRICS AND HUMAN DEVELOPMENT	ROLE OF DISRUPTED ASL PH REGULATION IN SMALL AIRWAYS IN CF LUNG DISEASE PATHOGENESIS



**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
249	\$7,549	CHIESI USA INC	Omar, Said	PEDIATRICS AND HUMAN DEVELOPMENT	LISPAP CCD-050000-01: AN OPEN LABEL MULTICENTER RANDOMIZED CONTROLLED STUDY IN SPONTANEOUSLY BREATHING PRETERM NEONATES WITH RDS TO COMPARE 2 PROCEDURES FOR PORCINE SURFACTANT (CUROSURF) ADMIN. LISA
250	\$395,620	SPECTRUM HEALTH SYSTEM	Prokop, Jeremy	PEDIATRICS AND HUMAN DEVELOPMENT	MDHHS COVID GENOMIC SURVEILLANCE
251	\$19,166	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Bernard, Jamie	PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE	MODULATION OF THE ARYL HYDROCARBON RECEPTOR BY ADIPOSE TISSUE: IMPLICATIONS FOR SKIN CARCINOGENESIS
252	\$344,796	NATIONAL INST OF HEALTH	Galligan, James	PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE	IDENTIFICATION OF ENTERIC NERVE CIRCUITS CONTROLLING GUT MOTILITY
253	\$10,000	EMORY UNIV	Mahmoudi, Morteza	RADIOLOGY HUMAN MEDICINE	LEVERAGING 3D BIOPRINTED ORGANOID CONSTRUCTS TO PATTERN AND MODEL HUMAN BRAIN DEVELOPMENT
254	\$100,000	DMC FOUNDATION	Moore, Anna	RADIOLOGY HUMAN MEDICINE	INVESTIGATION OF MIRNA-10B EXPRESSION IN AFRICAN-AMERICAN WOMEN WITH BREAST CANCER: PATH TO NEW THERAPIES
255	\$11,250	COLUMBIA UNIV	Moore, Anna	RADIOLOGY HUMAN MEDICINE	T CELLS TO PROMOTE MIXED CHIMERISM FOR TOLERANCE TO ISLETS AND KIDNEYS FROM DECEASED AND LIVING DONORS
256	\$555,309	NATIONAL CANCER INST	Moore, Anna	RADIOLOGY HUMAN MEDICINE	THERAPY FOR METASTATIC BREAST CANCER BASED ON MICRO RNA SILENCING
257	\$556,856	NATIONAL INST OF HEALTH	Moore, Anna	RADIOLOGY HUMAN MEDICINE	ANTI-MIR-10B NANODRUG FOR TREATMENT OF BREAST CANCER METASTASIS: STUDY IN COMPANION ANIMALS
258	\$22,900	UNIVERSITY OF MICHIGAN	Benskey, Matthew	TRANSLATIONAL NEUROSCIENCE	INVESTIGATING MECHANISMS OF C1Q SYNAPTIC TAGGING IN A MODEL OF TAUOPATHY
259	\$468,320	NATIONAL INST OF HEALTH	Collier, Kathy	TRANSLATIONAL NEUROSCIENCE	GENETIC SILENCING OF STRIATAL CAV1.3 CALCIUM CHANNELS AS A POTENT ANTIDYSKINETIC THERAPY FOR PD
260	\$46,797	NATIONAL INST OF HEALTH	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	CENTRAL NORADRENERGIC MECHANISMS OF CEREBROVASCULAR PATHOLOGY IN ALZHEIMER'S DISEASE
261	\$154,758	INHIBIKASE THERAPEUTICS	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	GENERATION OF NOVEL PY39 A-SYNUCLEIN MONOCLONAL ANTIBODIES
262	\$185,530	UNIVERSITY OF NORTH TEXAS	Morgan, David	TRANSLATIONAL NEUROSCIENCE	DISCOVERY OF FUNCTIONALLY SELECTIVE ALZHEIMER'S DISEASE THERAPEUTICS
263	\$38,943	NATIONAL INST OF HEALTH	Mueller, Rebecca	TRANSLATIONAL NEUROSCIENCE	INVESTIGATING THE FUNCTIONAL CONSEQUENCES OF SEEDING IN MAMMALIAN PRIMARY NEURONS WITH ALZHEIMER'S DISEASE BRAIN-DERIVED TAU FILAMENTS

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
<b>JAMES MADISON COLLEGE</b>					
264	\$20,000	ARIZONA STATE UNIV	Flaim, Amanda	JAMES MADISON COLLEGE DEAN	ADVANCING INTERDISCIPLINARY MEKONG STUDIES
<b>LYMAN BRIGGS COLLEGE</b>					
265	\$102,932	NATIONAL SCIENCE FOUNDATION	Pennock, Robert	LYMAN BRIGGS DEAN	ACTIVE LENS: LEARNING EVOLUTION AND THE NATURE OF SCIENCE USING EVOLUTION IN ACTION
<b>COLLEGE OF MUSIC</b>					
266	\$140,000	ERB FAMILY FOUNDATION	Johnson, Kristopher	COMMUNITY MUSIC SCHOOL	MSU COMMUNITY MUSIC SCHOOL-DETROIT JAZZ EDUCATION AND MENTORSHIP PROGRAM
<b>COLLEGE OF NATURAL SCIENCE</b>					
267	\$33,800	NATIONAL INST OF HEALTH	Arnosti, David	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	THE RETINOBLASTOMA COREPRESSOR FAMILY: PRECISION TARGETING FOR DISCERNING GENE REGULATORY MECHANISMS IN THE DROSOPHILA EYE
268	\$37,739	NATIONAL INST OF HEALTH	Feig, Michael	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MODELING AND DYNAMICS OF BIOMOLECULES ON CELLULAR SCALES
269	\$736,938	US DEPT OF ENERGY	Grotewold, Erich	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	A SYSTEMS FRAMEWORK TO ENHANCE THE POTENTIAL OF CAMELINA AS OILSEED CROP
270	\$91,374	US DEPT OF ENERGY	Hegg, Eric	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	DNRA: CATALYZING MULTI-ELECTRON REDUCTIONS USING A PENTAHEME SCAFFOLD
271	\$75,625	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Hoffmann-Benning, Susanne	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	IDENTIFYING ATTRACTIVE COMPONENTS OF PHLOEM SAP FOR SPOTTED LANTERNFLY CONTROL
272	\$100,082	WAYNE STATE UNIV	Kuo, Min	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	COUNTERING TAUOPATHY WITH HEPARAN SULFATE DERIVATIVES
273	\$1,337,894	NATIONAL INST OF HEALTH	Kuo, Min	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	HYPERPHOSPHORYLATED TAU AND THE MOLECULAR MECHANISMS OF TAUOPATHY
274	\$295,259	CAYMAN CHEMICAL CO INC	Kuo, Min	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	HYPERPHOSPHORYLATED TAU AGGREGATION AND CYTOTOXICITY TEST KITS TO IDENTIFY TAUOPATHY THERAPEUTICS AND RISK FACTORS

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
275	\$312,217	NATIONAL INST OF HEALTH	Last, Robert	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	PLANT BIOTECHNOLOGY FOR HEALTH AND SUSTAINABILITY
276	\$239,993	AG SPECTRUM CO	Lundquist, Peter	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	ADAPTIVE BIOCHEMICAL AND PHYSIOLOGICAL RESPONSES OF MAIZE HYBRID LINES TO MANAGED VARIABLES UNDER ABIOTIC STRESS
277	\$30,496	NATIONAL INST OF HEALTH	Martinez Hackert, Erik	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	TGF- SIGNALING AND REGULATION: ELUCIDATING MOLECULAR MECHANISMS AND PATHOGENIC FUNCTIONS OF THE 'CO-RECEPTOR' CRIPTO-1 AND THE RECEPTOR BMPRII
278	\$376,036	NATIONAL INST OF HEALTH	Orlando, Benjamin	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	STRUCTURAL BASIS OF ANTIMICROBIAL PEPTIDE SENSING AND RESISTANCE
279	\$38,573	NATIONAL INST OF HEALTH	Parent, Kristin	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	BACTERIOPHAGE INTERACTIONS WITH ENTERIC PATHOGENS
280	\$608,280	NATIONAL INST OF HEALTH	Quinn, Robert	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	DETERMINING HOW A DYNAMIC MICROBIOME CONTRIBUTES TO CYSTIC FIBROSIS LUNG DISEASE
281	\$194,822	US DEPT OF ENERGY	Beck, Warren	CHEMISTRY	LIGHT HARVESTING IN SEMICONDUCTOR QUANTUM DOTS
282	\$306,473	NATIONAL INST OF HEALTH	Borhan, Babak	CHEMISTRY	PROTEIN/CHROMOPHORE INTERACTIONS VIA PROTEIN DESIGN: INTERROGATION AND APPLICATION
283	\$100,000	ASSOC OF AMER UNIVERSITIES	Cooper, Melanie	CHEMISTRY	FACULTY REFLECTION AS A MECHANISM TO IMPROVE TEACHING AND LEARNING
284	\$165,000	US DEPT OF ENERGY	Hamann, Thomas	CHEMISTRY	CONTROLLING CHARGE TRANSFER AND TRANSPORT WITH FIRST ROW TRANSITION METAL COMPLEXES
285	\$500,000	DEFENSE THREAT REDUCTION AGENCY	Harel, Elad	CHEMISTRY	REAL-TIME DETECTION OF CONTAMINANTS IN BIOPHARMACEUTICALS BY AI-ENABLED QUANTUM COHERENCE SPECTROSCOPY
286	\$1,300,000	W M KECK FOUNDATION	Harel, Elad	CHEMISTRY	DIFFRACTION-LESS OPTICAL IMAGING – ACHIEVING THE RESOLUTION OF ELECTRON MICROSCOPY WITH LIGHT IN LIVING SYSTEMS
287	\$300,000	NATIONAL INST OF HEALTH	Huang, Xuefei	CHEMISTRY	SYNTHETIC GLYCAN CONJUGATES WITH BACTERIOPHAGE QBETA FOR BROAD SPECTRUM ANTI-SALMONELLA VACCINES
288	\$353,982	NATIONAL SCIENCE FOUNDATION	McCusker, James	CHEMISTRY	SPIN EFFECTS ON THE EXCITED-STATE DYNAMICS OF TRANSITION METAL COMPLEXES
289	\$238,340	US DEPT OF ENERGY	McCusker, James	CHEMISTRY	SYNTHESIS AND SPECTROSCOPY OF TRANSITION METAL-BASED CHROMOPHORES: TAILORING FIRST-ROW PHOTOPHYSICS FOR APPLICATIONS IN SOLAR ENERGY CONVERSION

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
290	\$320,515	NATIONAL INST OF HEALTH	Merz, Kenneth	CHEMISTRY	MODELING TRANSITION METAL ION BINDING TO PROTEINS
291	\$124,739	UNIVERSITY OF GEORGIA	Merz, Kenneth	CHEMISTRY	GENETICS AND QUANTUM CHEMISTRY AS TOOLS FOR UNKNOWN METABOLITE IDENTIFICATION
292	\$2,264,054	NATIONAL SCIENCE FOUNDATION	Merz, Kenneth	CHEMISTRY	COLLABORATIVE RESEARCH: FRAMEWORKS: INTEROPERABLE HIGH-PERFORMANCE CLASSICAL, MACHINE LEARNING AND QUANTUM FREE ENERGY METHODS IN AMBER
293	\$110,000	AMER CHEMICAL SOCIETY	Odom, Aaron	CHEMISTRY	EARTH-ABUNDANT CATALYSIS FOR ASYMMETRIC REDUCTIVE AMINATION WITH CO AS REDUCTANT
294	\$12,500	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Sun, Liangliang	CHEMISTRY	COMBINED SINGLE CELL TRANSCRIPTOME AND PROTEOME ANALYSIS UNVEILS INKT CELL FUNCTION IN PANCREATIC CANCER LIVER METASTASIS
295	\$32,699	NATIONAL INST OF HEALTH	Sun, Liangliang	CHEMISTRY	QUANTITATIVE PROTEOMICS OF ZEBRAFISH EMBRYOS AND BLASTOMERES
296	\$96,448	US ARMY RESEARCH OFFICE	Swain, Greg	CHEMISTRY	SPECTROELECTROCHEMICAL STUDIES OF REDOX REACTIONS AND ELECTRIFIED INTERFACES AT CARBON ELECTRODES
297	\$500,000	PORTERA THERAPEUTICS INC	Tepe, Jetze	CHEMISTRY	PRECLINICAL DEVELOPMENT OF 20S PROTEASOME ENHANCERS
298	\$366,910	NATIONAL INST OF HEALTH	Tepe, Jetze	CHEMISTRY	SMALL MOLECULE INDUCED PROTEOLYTIC DESTRUCTION OF INTRINSICALLY DISORDERED PROTEINS
299	\$383,928	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Tepe, Jetze	CHEMISTRY	DEVELOPMENT OF CELLULAR HTS FOR 20S PROTEASOME ENHANCERS
300	\$195,000	REATA PHARMACEUTICALS	Wilson, Angela	CHEMISTRY	MEDICINAL CHEMISTRY
301	\$150,000	NATIONAL SCIENCE FOUNDATION	Wilson, Angela	CHEMISTRY	EFFECTIVE COMPUTATIONAL STRATEGIES FOR TRANSITION METAL AND HEAVY ELEMENT SPECIES
302	\$401,853	NATIONAL SCIENCE FOUNDATION	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	COLLABORATIVE RESEARCH: HDR DSC: INCREASING ACCESSIBILITY THROUGH BUILDING ALTERNATIVE DATA SCIENCE PATHWAYS
303	\$82,318	NATIONAL SCIENCE FOUNDATION	Hirn, Matthew	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: UNDERSTANDING INVARIANT CONVOLUTIONAL NEURAL NETWORKS THROUGH MANY PARTICLE PHYSICS
304	\$139,350	NATIONAL SCIENCE FOUNDATION	Krishnan, Arjun	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: ASSIGNING COMPREHENSIVE, STANDARDIZED SAMPLE ANNOTATIONS TO ENHANCE THE ABILITY TO DISCOVER, USE, AND INTERPRET MILLIONS OF – OMICS PROFILES
305	\$76,610	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

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
306	\$147,425	NATIONAL SCIENCE FOUNDATION	Perea, Jose	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: MACHINE LEARNING, MAPPING SPACES, AND OBSTRUCTION THEORETIC METHODS IN TOPOLOGICAL DATA ANALYSIS
307	\$382,522	NATIONAL SCIENCE FOUNDATION	Wang, Jianrong	COMPUTATIONAL MATH SCI AND ENGR CNS	COLLABORATIVE RESEARCH: MODULUS: INTEGRATIVE MODELING, PREDICTION AND VALIDATION OF MULTI-SCALE DYNAMICS FOR 3D CHROMATIN STRUCTURES IN CELL DIFFERENTIATION
308	\$172,217	NATIONAL SCIENCE FOUNDATION	Wang, Jianrong	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: DELINEATE CONTEXT-SPECIFIC GENE REGULATION IN 3D CHROMATIN SPACE
309	\$81,105	NATIONAL SCIENCE FOUNDATION	Wei, Songqiao	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: MODIFICATION OF A CONTINENT: SEISMIC TOMOGRAPHY AND IMAGING OF THE NORTHERN AMERICAN LITHOSPHERE
310	\$200,000	JOHNSON & JOHNSON	Xie, Yuying	COMPUTATIONAL MATH SCI AND ENGR CNS	DEVELOP INTEGRATED MICROENVIRONMENT REFERENCE SETS FOR SINGLE LUNG CANCER ATLAS
311	\$79,687	NATIONAL SCIENCE FOUNDATION	Yang, Yang	COMPUTATIONAL MATH SCI AND ENGR CNS	ACOUSTIC INVERSE PROBLEMS WITH SINGLE AND MULTIPLE MEASUREMENTS
312	\$248,132	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
313	\$1,054,480	NATIONAL SCIENCE FOUNDATION	Haudek, Kevin	CREATE FOR STEM	EVALUATING EFFECTS OF AUTOMATIC FEEDBACK ALIGNED TO A LEARNING PROGRESSION TO PROMOTE KNOWLEDGE-IN-USE
314	\$125,000	MERIDIAN INST	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	MORGAN STANLEY SUSTAINABLE SOLUTIONS COHORT 2021 PRIZE
315	\$68,144	UNIVERSITY OF ILLINOIS CHICAGO	Dorfman, Susannah	EARTH AND ENVIRONMENTAL SCIENCES	CHICAGO-DOE ALLIANCE CENTER: A CENTER OF EXCELLENCE FOR HIGH PRESSURE SCIENCE AND TECHNOLOGY
316	\$111,494	NATIONAL SCIENCE FOUNDATION	Elliott, Julie	EARTH AND ENVIRONMENTAL SCIENCES	COLLABORATIVE RESEARCH: UNRAVELING DISTRIBUTED DEFORMATION DURING EARLY-STAGERIFTING IN THE WESTERN AND SOUTHWESTERN AFRICAN RIFTS
317	\$957,349	NATIONAL SCIENCE FOUNDATION	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	COLLABORATIVE RESEARCH: REVEALING THE HIDDEN GROUNDWATER STORAGE DYNAMICS OF THE GREAT LAKES BASIN BY SYNTHESIZING GEODESY, HYDROLOGIC MODELING, AND REMOTE SENSING

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
318	\$75,000	ALFRED P SLOAN FOUNDATION	Hardisty, Dalton	EARTH AND ENVIRONMENTAL SCIENCES	CONSTRAINING MECHANISMS DRIVING MODERN AND ANCIENT BIOGEOCHEMICAL PERTURBATIONS
319	\$332,486	NATIONAL SCIENCE FOUNDATION	Hardisty, Dalton	EARTH AND ENVIRONMENTAL SCIENCES	US GEOTRACES GP17-OCE: MASS BALANCE CONSTRAINTS ON IN SITU AND EX SITU DRIVERS OF OPEN OCEAN IODINE CYCLING AND PALEO PROXY APPLICATIONS
320	\$140,000	LAWRENCE LIVERMORE NATIONAL LABORATORY	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	CATALOG UNIFICATION AND SEISMIC MONITORING IN CENTRAL ASIA
321	\$103,636	NATIONAL SCIENCE FOUNDATION	Wei, Songqiao	EARTH AND ENVIRONMENTAL SCIENCES	CAREER: INVESTIGATING COMPOSITION AND RHEOLOGY OF CIRCUM-PACIFIC MANTLE WEDGES WITH BODY-WAVE ATTENUATIONS
322	\$93,734	NATIONAL SCIENCE FOUNDATION	Wei, Songqiao	EARTH AND ENVIRONMENTAL SCIENCES	COLLABORATIVE RESEARCH: INTERACTIONS BETWEEN THE TONGA-LAU SUBDUCTION SYSTEM AND THE SAMOAN PLUME
323	\$22,841	NATIONAL SCIENCE FOUNDATION	Zarnetske, Jay	EARTH AND ENVIRONMENTAL SCIENCES	CAREER: TOWARDS FORECASTING WATERSHED ORGANIC CARBON FLUXES ACROSS FLOW REGIMES AND ECOREGIONS
324	\$152,374	NATIONAL INST OF HEALTH	Reimers, Mark	INSTITUTE FOR QUANTITATIVE HEALTH	CRCNS: DYNAMICS OF THALAMOCORTICAL NETWORKS DURING SENSORY DISCRIMINATION
325	\$439,408	NATIONAL INST OF HEALTH	Ganz, Julia	INTEGRATIVE BIOLOGY	INVESTIGATION OF ENTERIC NERVOUS SYSTEM REGENERATION IN ZEBRAFISH USING A CELL ABLATION SYSTEM WITH SPATIO-TEMPORAL CONTROL
326	\$94,720	NATIONAL SCIENCE FOUNDATION	Zipkin, Elise	INTEGRATIVE BIOLOGY	COLLABORATIVE RESEARCH: MRA: ESTIMATING AND FORECASTING NONSTATIONARY, MULTI-SCALE CLIMATE AND LAND-USE EFFECTS ON AVIAN COMMUNITIES
327	\$60,000	US FISH & WILDLIFE SERVICE	Zipkin, Elise	INTEGRATIVE BIOLOGY	ESTIMATING THE DISTRIBUTION AND RELATIVE ABUNDANCE OF SEABIRDS IN THE GULF OF MEXICO
328	\$17,252	NATIONAL INST OF FOOD & AGRICULTURE	Gilbert, Kadeem	KELLOGG BIOLOGICAL STATION NAT SCI	THE PHYSIOLOGY OF PHYLLOPLANE PH REGULATION AND ITS CONSEQUENCES ON THE MICROBIOME
329	\$26,630	NATIONAL SCIENCE FOUNDATION	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT SCI	LTER: MECHANISMS OF RESILIENCE IN AGRICULTURAL LANDSCAPES
330	\$40,000	LAWRENCE LIVERMORE NATIONAL LABORATORY	Robertson, GPhilip	KELLOGG BIOLOGICAL STATION NAT SCI	NATIONAL GETTING TO NEUTRAL CARBON: BIOENERGY PRODUCTION AND SOIL CARBON

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
331	\$298,433	ENVIRONMENTAL DEFENSE FUND	Sprunger, Christine	KELLOGG BIOLOGICAL STATION NAT SCI	ASSESSING A SUITE OF INDICATORS TO PREDICT SOIL CARBON TRAJECTORIES IN AGRICULTURAL SYSTEMS
332	\$151,427	NATIONAL SCIENCE FOUNDATION	Flapan, Laure	MATHEMATICS	HYPERKÄHLER MANIFOLDS, MODULI SPACES, AND FANO VARIETIES
333	\$1,236,762	NATIONAL SCIENCE FOUNDATION	Hedden, Matthew	MATHEMATICS	RTG: ALGEBRAIC AND GEOMETRIC TOPOLOGY AT MICHIGAN STATE
334	\$80,332	NATIONAL SCIENCE FOUNDATION	Kachkovskiy, Ilya	MATHEMATICS	CAREER: QUANTUM SYSTEMS WITH DETERMINISTIC DISORDER
335	\$75,000	ALFRED P SLOAN FOUNDATION	Kachkovskiy, Ilya	MATHEMATICS	QUASIPERIODIC OPERATORS AND RELATED PROBLEMS
336	\$11,010	NATIONAL SCIENCE FOUNDATION	Nelson, Brent	MATHEMATICS	CONFERENCE: EAST COAST OPERATOR ALGEBRAS SYMPOSIUM 2022
337	\$290,000	NATIONAL SCIENCE FOUNDATION	Promislow, Keith	MATHEMATICS	SINGULAR-ENTHALPIC LIMITS IN POLYMER MORPHOLOGY
338	\$128,976	NATIONAL SCIENCE FOUNDATION	Rapinchuk, Ekaterina	MATHEMATICS	COLLABORATIVE RESEARCH: INTEGRATING ALGEBRAIC TOPOLOGY, GRAPH THEORY, AND MULTISCALE ANALYSIS FOR LEARNING COMPLEX AND DIVERSE DATASETS
339	\$160,000	NATIONAL SCIENCE FOUNDATION	Shen, Linhui	MATHEMATICS	CLUSTER ALGEBRAS, QUANTUM GROUPS, AND DECORATED CHARACTER VARIETIES
340	\$230,826	NATIONAL SCIENCE FOUNDATION	Turanova, Olga	MATHEMATICS	NONLOCAL REACTION-DIFFUSION EQUATIONS AND WASSERSTEIN GRADIENT FLOWS
341	\$86,958	NATIONAL SCIENCE FOUNDATION	Wang, Zhenqi	MATHEMATICS	CAREER: NEW METHODS AND APPLICATIONS FOR SMOOTH RIGIDITY OF ALGEBRAIC ACTIONS
342	\$540,234	NATIONAL INST OF HEALTH	Wei, Guowei	MATHEMATICS	AI-BASED PLATFORM FOR PREDICTING EMERGING VACCINE-ESCAPE VARIANTS AND DESIGNING MUTATION-PROOF ANTIBODIES
343	\$76,147	US ARMY RESEARCH OFFICE	Crosson, Sean	MICROBIOLOGY MOLECULAR GENETICS CNS	LEVERAGING ENVIRONMENTAL COMPLEXITY TO DEFINE BACTERIAL GENE FUNCTION
344	\$60,688	INDIANA UNIV	Manning, Shannon	MICROBIOLOGY MOLECULAR GENETICS CNS	THE ROLE OF MACROPHAGES IN CHORIOAMNIONITIS AND GROUP B STREPTOCOCCAL INFECTIONS
345	\$1,000,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Manning, Shannon	MICROBIOLOGY MOLECULAR GENETICS CNS	GENOMIC SURVEILLANCE OF ENTERIC PATHOGENS IN MICHIGAN

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
346	\$962,423	NATIONAL INST OF HEALTH	O'Halloran, Thomas	MICROBIOLOGY MOLECULAR GENETICS CNS	RESOURCE FOR QUANTITATIVE ELEMENTAL MAPPING FOR THE LIFE SCIENCES
347	\$383,643	NATIONAL INST OF HEALTH	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	GENETIC MECHANISMS OF TISSUE-RESIDENT MACROPHAGE MAINTENANCE AND FUNCTION
348	\$523,984	NATIONAL INST OF HEALTH	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	REGULATORS OF IFN-GAMMA RESPONSES DURING MYCOBACTERIUM TUBERCULOSIS INFECTION
349	\$68,777	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY MOLECULAR GENETICS CNS	EXPLORING CYCLIC DI-NUCLEOTIDE SIGNALING ACROSS THE TREE OF LIFE
350	\$52,541	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY MOLECULAR GENETICS CNS	EXPLORING CYCLIC DI-NUCLEOTIDE SIGNALING ACROSS THE TREE OF LIFE
351	\$379,856	NATIONAL INST OF HEALTH	Yu, Kefei	MICROBIOLOGY MOLECULAR GENETICS CNS	DNA STRUCTURE DIRECTED AID DEAMINATION DURING IMMUNOGLOBULIN ISOTYPE SWITCHING
352	\$4,986,777	NATIONAL SCIENCE FOUNDATION	Posey, Lynmarie	NATURAL SCIENCE DEAN	NATURAL SCIENCE TRANSFER SCHOLARS: NATURAL SCIENCE FOUNDATIONS FOR INNOVATION IN THE DATA-DRIVEN ECONOMY
353	\$78,751	SPACE TELESCOPE SCIENCE INST	Chomiuk, Laura	PHYSICS ASTRONOMY	COMBINING OBSERVATIONS WITH SIMULATIONS TO DECIPHER SHOCKS IN NOVAE
354	\$135,165	UNIVERSITY OF PITTSBURGH	Cocker, Tyler	PHYSICS ASTRONOMY	TOPOLOGICAL SPIN QUBITS BASED ON GRAPHENE NANORIBBONS
355	\$114,733	UNIVERSITY OF WISCONSIN MADISON	DeYoung, Tyce	PHYSICS ASTRONOMY	MANAGEMENT AND OPERATIONS OF THE ICECUBE NEUTRINO OBSERVATORY 2021-2026
356	\$197,354	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Donahue, Megan	PHYSICS ASTRONOMY	BARYONIC AND WEAK LENSING PROPERTIES OF A VOLUME-LIMITED SAMPLE OF CLUSTERS OF GALAXIES
357	\$129,000	COLUMBIA UNIV	Fisher, Wade	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY WBS 6.08.03.01 TRIGGER FRAMEWORK - MREFC - MSU
358	\$213,241	UNIVERSITY OF MICHIGAN	Hayden, Daniel	PHYSICS ASTRONOMY	U.S. ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER
359	\$740,000	NATIONAL SCIENCE FOUNDATION	Huston, Joey	PHYSICS ASTRONOMY	INVESTIGATIONS IN PROTON-PROTON COLLISIONS AT THE LARGE HADRON COLLIDER
360	\$142,234	US DEPT OF ENERGY	Ke, Xianglin	PHYSICS ASTRONOMY	TOPOLOGICAL MAGNONS AND TOPOLOGICAL ELECTRONIC PROPERTIES IN METALLIC KAGOME MAGNETS



**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
361	\$48,338	SPACE TELESCOPE SCIENCE INST	Kerzendorf, Wolfgang	PHYSICS ASTRONOMY	SOLVING THE TYPE IA SUPERNOVA PROGENITOR MYSTERY WITH LATE-TIME LIGHT CURVE MODELING OF HST
362	\$300,000	NATIONAL SCIENCE FOUNDATION	Lin, Huey-Wen	PHYSICS ASTRONOMY	MAPPING THE STRUCTURE OF HADRONS WITH LATTICE QCD
363	\$500,000	US DEPT OF ENERGY	Mahn, Kendall	PHYSICS ASTRONOMY	TRAIN-MI PROGRAM: HIGH ENERGY PHYSICS INSTRUMENTATION TRAINEESHIP IN MICHIGAN
364	\$76,734	GREAT LAKES CRYSTAL TECHNOLOGIES INC	Pollanen, Johannes	PHYSICS ASTRONOMY	NEXT GENERATION DIAMOND MATERIALS FOR HIGH-RESOLUTION QUANTUM SENSORS
365	\$186,205	US DEPT OF ENERGY	Ruan, Chong-Yu	PHYSICS ASTRONOMY	SYMMETRY-BREAKING MECHANISM AND METASTABLE STATES IN CHARGE-ORDERED SYSTEMS PROBED USING FEMTOSECOND ELECTRON DIFFRACTION AND SPECTROSCOPY
366	\$35,555	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Strader, Jay	PHYSICS ASTRONOMY	SLEUTHING THE STAR CLUSTER X-RAY SOURCES IN THE OUTER HALO OF THE GIANT ELLIPTICAL CEN A
367	\$181,338	NATIONAL SCIENCE FOUNDATION	Tessmer, Stuart	PHYSICS ASTRONOMY	REU SITE: RESEARCH EXPERIENCES FOR UNDERGRADUATES IN PHYSICS
368	\$13,000	NATIONAL SCIENCE FOUNDATION	Voit, Gerard	PHYSICS ASTRONOMY	REU SUPPLEMENT: BARYON CYCLES IN THE BIGGEST GALAXIES
369	\$42,998	LAWRENCE BERKELEY NATIONAL LABORATORY	Whitehorn, Nathan	PHYSICS ASTRONOMY	CMB-S4 WBS 1.08 DATA ACQUISITION
370	\$513,335	NATIONAL INST OF HEALTH	Andrechek, Eran	PHYSIOLOGY NATURAL SCIENCE	TRANSCRIPTIONAL REGULATION OF MAMMARY GLAND DEVELOPMENT
371	\$379,150	NATIONAL INST OF HEALTH	Busik, Julia	PHYSIOLOGY NATURAL SCIENCE	DYSLIPIDEMIA AND DIABETIC RETINOPATHY
372	\$380,243	NATIONAL INST OF HEALTH	Busik, Julia	PHYSIOLOGY NATURAL SCIENCE	ANTI-CERAMIDE IMMUNOTHERAPY FOR DIABETIC RETINOPATHY
373	\$33,685	NATIONAL INST OF HEALTH	Crandall, Shane	PHYSIOLOGY NATURAL SCIENCE	MOTOR FEEDBACK CONTROL OF LAYER SIX CIRCUITS
374	\$39,439	NATIONAL INST OF HEALTH	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	THE ROLE OF ENTERIC GLIA IN VISCERAL HYPERSENSITIVITY
375	\$344,842	NATIONAL INST OF HEALTH	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	REGULATION OF ENTERIC MOTOR NEUROCIRCUITS BY ENTERIC GLIA IN HEALTH AND DISEASE
376	\$90,801	BAYLOR COLLEGE OF MEDICINE	Robison, Alfred	PHYSIOLOGY NATURAL SCIENCE	ROLE OF DELTAFOSB IN HIPPOCAMPAL GENE EXPRESSION AND FUNCTION IN NEUROLOGICAL DISEASE

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
377	\$48,791	NATIONAL INST OF HEALTH	Wang, Hongbing	PHYSIOLOGY NATURAL SCIENCE	MECHANISM UNDERLYING COGNITIVE AND SYNAPTIC FLEXIBILITY
378	\$772,572	NATIONAL SCIENCE FOUNDATION	Lowry, David	PLANT BIOLOGY CNS	IMAGINE: THE GENETIC, DEVELOPMENTAL, AND PHYSIOLOGICAL MECHANISMS OF PLANT LOCAL ADAPTATION TO OCEANIC SALT SPRAY
379	\$24,984	MARINE BIOLOGICAL LABORATORY	Malmstrom, Carolyn	PLANT BIOLOGY CNS	STICKY ROOTS — IMPLICATIONS OF ALTERED RHIZO DEPOSITION (DRIVEN BY CRYPTIC, VIRAL INFECTION OF PLANTS) FOR THE FATE OF RHIZOSPHERE MINERAL-ORGANIC MATTER ASSOCIATIONS IN NATURAL ECOSYSTEMS
380	\$900,000	NATIONAL SCIENCE FOUNDATION	Shiu, Shinhan	PLANT BIOLOGY CNS	COLLABORATIVE RESEARCH: ASSESSING THE CONNECTIONS BETWEEN GENETIC INTERACTIONS, ENVIRONMENTS, AND PHENOTYPES IN ARABIDOPSIS THALIANA
381	\$1,800,000	NATIONAL SCIENCE FOUNDATION	Shiu, Shinhan	PLANT BIOLOGY CNS	RESEARCH-PGR: COMBINING MACHINE LEARNING AND EXPERIMENTAL ANALYSIS TO DEFINE TRICHOME AND ROOT-SPECIFIC GENE REGULATORY NETWORKS IN CULTIVATED TOMATO AND RELATED SOLANACEAE SPECIES
382	\$1,076,813	NATIONAL SCIENCE FOUNDATION	Benning, Christoph	PLANT RESEARCH LABORATORY NAT SCIENCE	LIPID DERIVED SIGNALING INVOLVING CHLOROPLASTS
383	\$188,635	US DEPT OF ENERGY	Kerfeld, Cheryl	PLANT RESEARCH LABORATORY NAT SCIENCE	ELUCIDATING THE MECHANISM OF OCP-MEDIATED ANTENNA QUENCHING
384	\$48,142	NATIONAL SCIENCE FOUNDATION	Sung, Chih-Li	STATISTICS PROBABILITY	COLLABORATIVE RESEARCH: EFFICIENT BAYESIAN GLOBAL OPTIMIZATION WITH APPLICATIONS TO DEEP LEARNING AND COMPUTER EXPERIMENTS
385	\$124,826	NATIONAL SCIENCE FOUNDATION	Weng, Haolei	STATISTICS PROBABILITY	TOWARDS DESIGNING OPTIMAL LEARNING PROCEDURES VIA PRECISE MEDIUM-DIMENSIONAL ASYMPTOTIC ANALYSIS
<b>COLLEGE OF NURSING</b>					
386	\$763,071	NATIONAL HEART LUNG & BLOOD INST	Robbins, Lorraine	NURSING	GUYS/GIRLS OPT FOR ACTIVITIES FOR LIFE (GOAL) TRIAL
<b>COLLEGE OF OSTEOPATHIC MEDICINE</b>					
387	\$15,269	ADDEX PHARMA SA	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	AN OPEN-LABEL SAFETY STUDY OF DIPRAGLURANT (ADX48621) IN PATIENTS WITH PARKINSON'S DISEASE RECEIVING LEVODOPA-BASED THERAPY WITH OR WITHOUT CONCOMITANT DOPAMINERGIC MEDICATIONS
388	\$15,842	NEURODERM LTD	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A MULTICENTER, RANDOMIZED, ACTIVE-CONTROLLED, DOUBLE-BLIND, DOUBLE-DUMMY, PARALLEL GROUP CLINICAL TRIAL, INVESTIGATING THE EFFICACY, SAFETY, AND TOLERABILITY OF CONTINUOUS SUBCUTANEOUS ND0612 INFUSION

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
389	\$25,000	MUSCULAR DYSTROPHY ASSOC INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	MSU DEPARTMENT OF NEUROLOGY MDA CARE CENTER
390	\$8,419	TAKEDA PHARMACEUTICAL CO LTD	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 2, RANDOMIZED, PLACEBO-CONTROLLED STUDY TO EVALUATE SAFETY, TOLERABILITY, AND EFFICACY OF TAK-079 IN PATIENTS WITH GENERALIZED MYASTHENIA GRAVIS
391	\$60,979	EISAI INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	EISAI BAN2401-G000-201 OPEN LABEL EXTENSION
392	\$50,000	CELGENE INTERNATIONAL II SARL	Ward, Jayne	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3B, MULTICENTER, OPEN-LABEL STUDY TO EVALUATE THE IMMUNE RESPONSE TO, AND THE SAFETY OF, VACCINES IN PARTICIPANTS WITH RELAPSING FORMS OF MULTIPLE SCLEROSIS WHO RECEIVE ORAL OZANIMOD COMPARED
393	\$27,813	UNIVERSITY OF ROCHESTER	Seydel, Karl	OSTEOPATHIC MEDICAL SPECIALTIES COM	MRI ANCILLARY STUDY OF MALARIA FEVER CONTROL RCT
394	\$20,000	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Ellsworth, Edmund	PHARMACOLOGY TOXICOLOGY	SYNTHESIS AND ANTICANCER STUDIES OF APRATOXIN F
395	\$26,030	MYOSIN THERAPEUTICS INC	Krieger-Burke, Teresa	PHARMACOLOGY TOXICOLOGY	DEVELOPMENT OF A FIRST-IN-CLASS NON-MUSCLE MYOSIN II INHIBITOR TO PREVENT SUBSTANCE USE DISORDER RELAPSE
396	\$152,718	NATIONAL INST ON AGING	Lee, Kin Sing	PHARMACOLOGY TOXICOLOGY	OXYLIPINS, AGING AND ALZHEIMER'S DISEASE
397	\$377,223	NATIONAL INST OF GENERAL MEDICAL SCIENCES	Lee, Kin Sing	PHARMACOLOGY TOXICOLOGY	FERROPTOSIS AND POLYUNSATURATED FATTY ACID METABOLISM
398	\$27,854	NATIONAL INST OF HEALTH	Liby, Karen	PHARMACOLOGY TOXICOLOGY	NRF2, IMMUNE CELLS AND LUNG CANCER
399	\$12,300	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Neubig, Richard	PHARMACOLOGY TOXICOLOGY	MITIGATION OF RADIATION FIBROSIS BY CCG 257081
400	\$343,484	NATIONAL INST OF HEALTH	Tykocki, Nathan	PHARMACOLOGY TOXICOLOGY	TRPV1 MEDIATES PROGRESSIVE STRESS-INDUCED BLADDER DYSFUNCTION
401	\$54,305	NATIONAL INST DIABETES & DIGESTIVE & KIDNEY DISEASES	Tykocki, Nathan	PHARMACOLOGY TOXICOLOGY	TRPV1 MEDIATES PROGRESSIVE STRESS-INDUCED BLADDER DYSFUNCTION
402	\$42,518	NATIONAL INST OF HEALTH	Watts, Stephanie	PHARMACOLOGY TOXICOLOGY	5-HT7 RECEPTOR AND BLOOD PRESSURE REGULATION

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
403	\$57,411	OREGON HEALTH & SCIENCE UNIVERSITY	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	NEUROEBOLA
404	\$432,238	NATIONAL INST OF HEALTH	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	CULTURE-SPECIFIC NEURODEVELOPMENTAL ASSESSMENT OF HIV-AFFECTED CHILDREN: HOME-BASED EVALUATION THROUGH CLOUD-READINESS ENHANCEMENT
405	\$40,518	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Ezeamama, Amara	PSYCHIATRY OSTEOPATHIC MEDICINE	FOLATE DEFICIENCY, PERIPARTUM ANTIRETROVIRAL DRUG EXPOSURE AND NEURODEVELOPMENTAL OUTCOMES AT 6 - 18 YEARS OLD IN HIV AFFECTED AND CONTROL CHILDREN
406	\$189,241	NATIONAL INST OF HEALTH	Shapiro, Erik	RADIOLOGY OSTEOPATHIC MEDICINE	CRISPR INDUCED EXPRESSION OF NATIVE MRI REPORTER PROTEINS
<b>COLLEGE OF SOCIAL SCIENCE</b>					
407	\$249,255	UNIVERSITY OF ARKANSAS	Chermak, Steven	CRIMINAL JUSTICE	FROM DOT COMS TO PIPE BOMBS: ONLINE RADICALIZATION AND MOBILIZATION TO VIOLENCE
408	\$12,000	BLACK FAMILY DEVELOPMENT INC	Krupa, Julie	CRIMINAL JUSTICE	DETROIT CEASEFIRE - RESEARCH PARTNER
409	\$74,156	CITY OF DETROIT	Krupa, Julie	CRIMINAL JUSTICE	COMPREHENSIVE APPROACHES TO OPIOID ABUSE: RESEARCH PARTNER
410	\$32,210	YALE UNIV	Maxwell, Christopher	CRIMINAL JUSTICE	ADVANCING GUN POLICY: LINKING MULTI-SOURCE DATA TO DEVELOP MICRO-LONGITUDINAL TRAJECTORIES OF DOMESTIC VIOLENCE OFFENDERS' GUN USE AND IMPACT ON VICTIMS
411	\$1,055,202	NATIONAL INST OF JUSTICE	Melde, Christopher	CRIMINAL JUSTICE	LONG-TERM FOLLOW-UP OF THE NATIONAL EVALUATION OF GANG RESISTANCE EDUCATION AND TRAINING PROJECT
412	\$26,976	SYNOPTIC DATA CORP	Andresen, Jeffrey	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	NATIONAL MESONET PROGRAM FOR MSU ENVIROWEATHER EFFORT
413	\$12,000	HENRY FORD HEALTH SYSTEM MICHIGAN STATE UNIVERSITY HEALTH SCIENCES	Grady, Sue	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	IDENTIFYING AND REDUCING DISPARITIES IN LUNG CANCER PATIENTS IN WAYNE COUNTY
414	\$349,997	CLEMSON UNIV	Mack, Elizabeth	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	FW-HTF-RL: PREPARING THE FUTURE WORKFORCE FOR THE ERA OF AUTOMATED VEHICLES (WEAVE)
415	\$16,874	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Pearson, Amber	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	VITAL RECORDS GEOCODING PROJECT

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
416	\$609,945	NATIONAL INST OF HEALTH	Pearson, Amber	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	IMPACT OF ECOLOGICAL PARK RESTORATION ON HEALTH IN LOW INCOME NEIGHBORHOODS: A NATURAL EXPERIMENT
417	\$60,000	GROUP ON EARTH OBSERVATIONS	Zulu, Leo	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	GEO FOR NAPS
418	\$91,775	COLORADO STATE UNIV	Henebry, Geoffrey	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	UNDERSTANDING URBAN CENTERS AS ECOLOGICAL TRAPS FOR AVIAN MIGRANTS
419	\$71,667	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	WHERE ARE THE MISSING BURNED AREAS? GLOBAL HOTSPOTS OF BURNED AREA - A MULTIREOLUTION ANALYSIS
420	\$364,125	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	MACHINE LEARNING PLANET HIGH RESOLUTION TRAINING DATA FOR MEDIUM RESOLUTION LAND COVER AND DISTURBANCE MAPPING
421	\$631,298	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
422	\$346,206	NATIONAL ENDOWMENT FOR THE HUMANITIES	Macdowell, Marsha	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	AFRICAN-AMERICAN, AFRICAN, AND AFRICAN DIASPORA QUILT STUDIES DIGITAL RESOURCE
423	\$62,000	US NAVAL ACADEMY	Sebell, Dustin	POLITICAL SCIENCE	RESIDENT ETHICS FELLOW IN THE STOCKDALE CENTER FOR ETHICAL LEADERSHIP
424	\$39,015	NATIONAL INST OF HEALTH	Ingersoll, Brooke	PSYCHOLOGY SOCIAL SCIENCE	EXAMINING THE ACTIVE INGREDIENTS OF CONSULTATION TO IMPROVE IMPLEMENTATION OF A PARENT-MEDIATED INTERVENTION FOR CHILDREN WITH AUTISM IN THE COMMUNITY MENTAL HEALTH SYSTEM.
425	\$6,169	GLOBAL FOUNDATION FOR EATING DISORDERS	Klump, Kelly	PSYCHOLOGY SOCIAL SCIENCE	HOW DOES DISADVANTAGE “GET UNDER THE SKIN” TO INFLUENCE EATING DISORDERS? A LONGITUDINAL STUDY OF EPIGENETIC MECHANISMS
426	\$25,135	INDIANA UNIV	McAuley, J	PSYCHOLOGY SOCIAL SCIENCE	UNDERSTANDING SPEECH IN NOISE: THE ROLES OF AGING AND ATTENTIONAL ENTRAINMENT
427	\$50,389	FLORIDA STATE UNIV	Miller, Robin	PSYCHOLOGY SOCIAL SCIENCE	SCALE IT UP: EFFECTIVENESS IMPLEMENTATION RESEARCH TO ENHANCE HIV-RELATED SELF-MANAGEMENT AMONG ADOLESCENTS AND YOUNG ADULTS

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
428	\$38,943	NATIONAL INST OF HEALTH	Moser, Jason	PSYCHOLOGY SOCIAL SCIENCE	ANXIETY AND WORKING MEMORY FUNCTION IN WOMEN: EXPLORING THE ROLE OF DOPAMINE AND OVARIAN HORMONES
429	\$108,970	NATIONAL SCIENCE FOUNDATION	Neal, Zachary	PSYCHOLOGY SOCIAL SCIENCE	HNDS-R: EXTRACTING THE BACKBONE OF UNWEIGHTED NETWORKS
430	\$46,752	NATIONAL INST OF HEALTH	Ramirez-Virella, Jariel	PSYCHOLOGY SOCIAL SCIENCE	ROLE OF CENTRAL NEUROTENSIN SIGNALING IN THE VENTRAL TEGMENTAL AREA FOR INGESTIVE BEHAVIOR AND BODY WEIGHT
431	\$21,109	MICHIGAN STATE POLICE	Ryan, Ann	PSYCHOLOGY SOCIAL SCIENCE	GRADUATE ASSISTANT IN ORGANIZATIONAL PSYCHOLOGY
432	\$396,175	CENTERS FOR DISEASE CONTROL & PREVENTION	McCauley, Heather	SOCIAL WORK	THE PUBLIC WILL CAMPAIGN: SHIFTING SOCIAL NORMS TO PREVENT CHILD SEXUAL ABUSE
433	\$10,000	MICHIGAN PUBLIC HEALTH INST	Park, Keunhye	SOCIAL WORK	ELIMINATING MISREPRESENTATION BETWEEN RACES ALLOWING CULTURAL EQUITY (EMBRACE): KENT COUNTY CHILD WELFARE DISPROPORTIONATE MINORITY CONTACT (DMC) ASSESSMENT
434	\$413,627	NATIONAL SCIENCE FOUNDATION	McCright, Aaron	SOCIOLOGY SOCIAL SCIENCE	COLLABORATIVE RESEARCH: INVESTIGATING THE PHILOSOPHICAL COMMITMENTS OF UNIVERSITY SCIENTISTS ACROSS DISCIPLINES
<b>ASC PROVOST FOR UNDERGRADUATE EDUCATION</b>					
435	\$475,000	KRESGE FOUNDATION	Renn, Kristen (she/her)	ASC PROVOST FOR UNDERGRADUATE EDUCATION	STUDENT INSIGHTS FOR INNOVATION: LEVERAGING THE LEARNER VOICE TO DRIVE HIGHER EDUCATION TRANSFORMATION
436	\$425,000	US DEPT OF EDUCATION	Garcia, Luis	MIGRANT STUDENT SERVICES	COLLEGE ASSISTANCE MIGRANT PROGRAM
437	\$474,859	US DEPT OF EDUCATION	Garcia, Luis	MIGRANT STUDENT SERVICES	MICHIGAN STATE UNIVERSITY HEP (HIGH SCHOOL EQUIVALENCY PROGRAM)
<b>COLLEGE OF VETERINARY MEDICINE</b>					
438	\$15,000	MERCK SHARP & DOHME	Abuelo Sebio, Angel	LARGE ANIMAL CLINICAL SCIENCES	2022 FOOD SYSTEMS FELLOWSHIP PROGRAM
439	\$86,959	NATIONAL INST OF HEALTH	Hardy, Lauren	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	NOVEL MECHANISMS LINKING BLOOD COAGULATION TO LIVER FIBROSIS
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	\$7,292	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	FIBRIN(OGEN) CONTROL OF METABOLIC INFLAMMATION AND OBESITY

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
442	\$40,800	FOOD & DRUG ADMINISTRATION	Dodd, Kimberly	VETERINARY DIAGNOSTIC LABORATORY	MICHIGAN STATE UNIVERSITY VDL VETLRN 2022
443	\$24,200	BOEHRINGER INGELHEIM INC	Sreevatsan, Srinand	VETERINARY MEDICINE DEAN	2022 BOEHRINGER INGELHEIM VETERINARY SCHOLARS PROGRAM (BIVSP)
<b>FACILITY FOR RARE ISOTOPE BEAMS</b>					
444	\$45,010,000	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	\$29,403	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	\$65,175	ARGONNE NATIONAL LABORATORY	Hao, Yue	FACILITY FOR RARE ISOTOPE BEAMS	USE OF ARTIFICIAL INTELLIGENCE TO OPTIMIZE ACCELERATOR OPERATIONS AND IMPROVE MACHINE PERFORMANCE
447	\$22,098	LAWRENCE BERKELEY NATIONAL LABORATORY	Lund, Steven	FACILITY FOR RARE ISOTOPE BEAMS	GRADUATE STUDENT AT LBNL - VALVERDE
448	\$675,000	NATIONAL SCIENCE FOUNDATION	Lynch, William	FACILITY FOR RARE ISOTOPE BEAMS	WINDOW ON THE UNIVERSE: EQUATION OF STATE OF ASYMMETRIC NUCLEAR MATTER
449	\$250,000	US DEPT OF ENERGY	Nazarewicz, Witold	FACILITY FOR RARE ISOTOPE BEAMS	MICROSCOPIC DESCRIPTION OF THE FISSION PROCESS
450	\$60,777	UNIVERSITY OF WASHINGTON	Nunes, Filomena	FACILITY FOR RARE ISOTOPE BEAMS	FRIB THEORY FELLOW AT UW - CHIEN-YEAH SENG
451	\$64,011	FERMI NATIONAL ACCELERATOR LABORATORY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	RESONANCE CORRECTION STUDIES AT THE FNAL RECYCLER RING
452	\$6,759	BROOKHAVEN NATIONAL LABORATORY	Schrock, Kenneth	FACILITY FOR RARE ISOTOPE BEAMS	BNL ARR ASSISTANCE - KEN SCHROCK
453	\$3,200,000	US DEPT OF ENERGY	Severin, Gregory	FACILITY FOR RARE ISOTOPE BEAMS	ACCELERATOR IMPROVEMENT PROJECT: ISOTOPE HARVESTING AT FRIB
454	\$550,000	US DEPT OF ENERGY	Severin, Gregory	FACILITY FOR RARE ISOTOPE BEAMS	CORE RESEARCH AND DEVELOPMENT SUPPORT FOR ISOTOPE HARVESTING AT FRIB
455	\$270,000	NATIONAL SCIENCE FOUNDATION	Shindler, Andrea	FACILITY FOR RARE ISOTOPE BEAMS	UNRAVELLING THE ORIGIN OF THE MATTER-ANTIMATTER ASYMMETRY IN THE UNIVERSE
456	\$45,320	JEFFERSON SCIENCE ASSOCIATES LLC	Spyrou, Artemisia	FACILITY FOR RARE ISOTOPE BEAMS	STUDENT TRAINING AND ENGAGEMENT PROGRAM IN UNDERGRADUATE PHYSICS

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
457	\$2,290,000	US DEPT OF ENERGY	York, Richard	FACILITY FOR RARE ISOTOPE BEAMS	HIGH RIGIDITY SPECTROMETER PROJECT – FY20 TO FY22
458	\$15,000	RADIATION MONITORING DEVICES INC	Zegers, Remco	FACILITY FOR RARE ISOTOPE BEAMS	ORGANIC GLASS SCINTILLATORS FOR NUCLEAR PHYSICS EXPERIMENTS
459	\$50,000	NATIONAL SCIENCE FOUNDATION	Brown, Boyd	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR STRUCTURE THEORY AND ITS APPLICATIONS TO NUCLEAR PROPERTIES, ASTROPHYSICS AND FUNDAMENTAL PHYSICS
460	\$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
461	\$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
462	\$450,000	UNIVERSITY OF CALIFORNIA BERKELEY	Liddick, Sean	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR SCIENCE AND ENGINEERING CONSORTIUM FOR NONPROLIFERATION
463	\$1,500,000	NATIONAL SCIENCE FOUNDATION	Minamisono, Kei	NAT'L SUPERCONDUCTING CYCLOTRON LAB	THE PRECISION FRONTIER AT FRIB: MASSES, RADII, MOMENTS, AND FUNDAMENTAL INTERACTIONS
464	\$550,000	US DEPT OF ENERGY	Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY ALLIANCE
465	\$45,553	LAWRENCE LIVERMORE NATIONAL LABORATORY	Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY FELLOW AT LAWRENCE LIVERMORE NATIONAL LABORATORY - HEBBORN
466	\$92,000	US DEPT OF ENERGY	Pratt, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	DETERMINING PROPERTIES OF MATTER CREATED AT RHIC
<b>ASC PROV FOR UNIV OUTREACH ENGAGEMENT</b>					
467	\$198,932	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Lamore, Rex	OUTREACH AND ENGAGEMENT PARTNERSHIPS	TRP/ACC DECONSTRUCTION & MATERIAL REUSE PARTNERSHIP PROJECT
<b>INTERNATIONAL STUDIES AND PROGRAMS</b>					
468	\$320,180	US DEPT OF EDUCATION	Monson, Jamie	AFRICAN STUDIES CENTER	FOREIGN LANGUAGE AND AREA STUDIES FELLOWSHIP PROGRAM (FLAS)



**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
469	\$288,660	US DEPT OF EDUCATION	Chandra, Siddharth	ASIAN STUDIES CENTER	ASIAN STUDIES CENTER - FLAS
470	\$230,811	INST OF INTL EDUCATION	Green, Ashley	INTERNATIONAL STUDIES AND PROGRAMS DEAN	H. HUBERT HUMPHREY FELLOWSHIP PROGRAM
<b>MSU HEALTH TEAM</b>					
471	\$193,595	MICHIGAN STATE POLICE	Ciabotti, Seth	MSU HEALTH TEAM	MSU HEALTH CARE COVID RELIEF: FEMA-4494-DR-MI (COVID-19)/PA-05-MI-4494-PW-00121(0)/141853 - MSUFEMA2020
<b>MSU AGBIORESEARCH</b>					
472	\$130,139	SAULT STE MARIE TRIBE OF CHIPPEWA INDIANS	Roloff, Gary	ABR DIRECTORS OFFICE	TASK ORDER NO. 1 UNDER MASTER RESEARCH AGREEMENT BETWEEN SAULT STE MARIE TRIBE OF CHIPPEWA INDIANS AND MICHIGAN STATE UNIVERSITY
473	\$3,300,000	US AGENCY FOR INTL DEVELOPMENT	Buhler, Douglas	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE INNOVATION LAB FOR LEGUME SYSTEMS RESEARCH (ILLSR)
474	\$377,982	NATIONAL SCIENCE FOUNDATION	Chung, Henry	MSU AGBIORESEARCH DIR OFC	COLLABORATIVE RESEARCH: MOLECULAR AND EVOLUTIONARY MECHANISMS UNDERLYING THE RAPID GAIN AND LOSS OF AN INSECT PHEROMONE
475	\$450,000	NATIONAL SCIENCE FOUNDATION	Rabnawaz, Muhammad	MSU AGBIORESEARCH DIR OFC	HIGH-BARRIER BIODEGRADABLE PAPER (HB2P) AS ALTERNATIVES TO PLASTICS
476	\$295,749	NATIONAL INST OF FOOD & AGRICULTURE	Wise, John	MSU AGBIORESEARCH DIR OFC	DEVELOPING ALTERNATIVE MANAGEMENT STRATEGIES FOR BORER PESTS IN STONE FRUITS FOLLOWING THE LOSS OF CHLORPYRIFOS
477	\$749,999	NATIONAL INST OF FOOD & AGRICULTURE	Cassida, Kimberly	PLANT SOIL AND MICROBIAL SCIENCES	USING COVER CROPS TO BUILD SOIL PHOSPHORUS FERTILITY AND SOIL HEALTH IMPROVEMENTS THAT FARMERS NEED
478	\$848,052	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
<b>MICHIGAN STATE UNIVERSITY EXTENSION</b>					
479	\$122,804	OHIO STATE UNIV	Jean, Monica	EXTENSION AGRICULTURE AND AGRIBUSINESS	ACCELERATING THE TRANSITION TO CLIMATE-SMART STRATEGIES BY BOLSTERING THE EXTENSION TO MIDWEST CLIMATE HUB CONNECTION
480	\$25,000	NATIONAL INST OF FOOD & AGRICULTURE	Lowenstein, David	EXTENSION AGRICULTURE AND AGRIBUSINESS	PROTECTING POLLINATORS IN URBAN LANDSCAPES CONFERENCE GRANT

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
481	\$10,000	MICHIGAN STATE HORTICULTURAL SOCIETY	Reinke, Michael	EXTENSION AGRICULTURE AND AGRIBUSINESS	IDENTIFYING THE UTILITY OF AERIAL DRONE CHEMICAL APPLICATION SYSTEMS IN MICHIGAN FRUIT CROPPING SYSTEMS
482	\$10,000	MICHIGAN APPLE COMMITTEE	Shane, William	EXTENSION AGRICULTURE AND AGRIBUSINESS	COORDINATED EVALUATION OF APPLE GERMPLASM FOR THE FRESH AND PROCESSING INDUSTRIES
483	\$35,000	US ENVIRONMENTAL PROTECTION AGENCY	Smith, Thomas	EXTENSION AGRICULTURE AND AGRIBUSINESS	ENGAGING ALL STAKEHOLDERS: MEETING THE INCREASING NEEDS OF PESTICIDE APPLICATOR CERTIFICATION AND WORKER PROTECTION THROUGH INCREASED COLLABORATION AND DIVERSITY OF PARTNERS AND STAKEHOLDERS, WITH EXP
484	\$11,656	UNIVERSITY OF MINNESOTA	Tocco, Phillip	EXTENSION AGRICULTURE AND AGRIBUSINESS	WATER QUALITY AND THE FSMA PSR: DEVELOPING RISK ASSESSMENT AND EDUCATIONAL TOLS FOR FARMERS AND LABORATORIES IN THE UPPER MIDWEST
485	\$17,696	MICHIGAN APPLE COMMITTEE	Wallis, Anna	EXTENSION AGRICULTURE AND AGRIBUSINESS	2022 APPLE MATURITY MANIPULATION - USE OF PGR'S AND OTHER PRODUCTS
486	\$38,871	NATIONAL 4H COUNCIL	Cox II, Frank	EXTENSION CHILDREN AND YOUTH	4-H NATIONAL MENTORING PROGRAM (4-H NMP 12)
487	\$96,936	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	MICHIGAN 4H FOUNDATION COUNTY PROGRAMS
488	\$11,646	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	MICHIGAN 4H FOUNDATION COUNTY PROGRAMS
489	\$33,000	APPLE	Jamieson, Kathy	EXTENSION CHILDREN AND YOUTH	APPLE COMMUNITY EDUCATION INITIATIVE
490	\$17,226	BARRY COUNTY UNITED WAY	Kilpatrick, Glenda	EXTENSION CHILDREN AND YOUTH	BARRY COUNTY MSU EXTENSION 4-H PROGRAM
491	\$63,000	USDA FOREST SERVICE	Bockelman, Kelsey	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MOBILE BOAT WASH PROGRAM FOR AQUATIC INVASIVE SPECIES PREVENTION

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
492	\$38,544	KALAMAZOO VALLEY COMMUNITY COLLEGE	Borgman, Mariel	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	OPERATIONALIZING BEST PRACTICES IN SOUTHWEST MI VALUE CHAINS
493	\$11,524	MICHIGAN POTATO INDUSTRY COMMISSION	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	TARGETED POTATO RESEARCH WITHIN MICHIGAN'S UPPER PENINSULA TO MEET PRODUCER NEEDS AND INCREASE GROWTH OF THE MICHIGAN POTATO INDUSTRY
494	\$102,052	MICHIGAN DEPT OF TRANSPORTATION	Higman, Phyllis	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MDOT RARE PLANT SURVEYS 2022
495	\$90,000	NATIONAL INST OF FOOD & AGRICULTURE	Ivan, David	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	FEDERALLY RECOGNIZED TRIBES EXTENSION PROGRAM
496	\$49,114	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Klatt, Brian	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	EGL E ANNUAL ACCESS TO NATURAL HERITAGE DATABASE
497	\$13,630	MICHIGAN DEPT OF NATURAL RESOURCES	Klatt, Brian	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 20-DNR WILDLIFE DIVISION PERMIT ASSISTANCE
498	\$26,000	MICHIGAN DEPT OF NATURAL RESOURCES	Lee, Yu Man	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 23 - INVESTIGATING THE USE OF DIGITAL SURFACE MODELS TO MODEL VEGETATION SUCCESSION TO INFORM CONSERVATION AND RECOVERY OF EASTERN MASSASAUGAS
499	\$33,427	MICHIGAN DEPT OF NATURAL RESOURCES	Lee, Yu Man	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	SURVEYS FOR SPOTTED TURTLE TO ASSESS STATUS AND DISTRIBUTION AND INFORM CONSERVATION IN MICHIGAN
500	\$74,939	MICHIGAN NATURE ASSOC	Lee, Yu Man	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	FACILITATING AND IMPLEMENTING EASTERN MASSASAUGA CONSERVATION AND RECOVERY IN MICHIGAN
501	\$8,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Neumann, Bradley	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	PLANNING & ZONING FOR SOLAR WORKSHOPS

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
502	\$75,786	US FISH & WILDLIFE SERVICE	Rowe, Logan	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	BUMBLE BEE COMMUNITY SURVEYS AND BUMBLE BEE ATLAS FOR MICHIGAN
503	\$21,466	SHARE OUR STRENGTH	Galdamez, Imelda	EXTENSION HEALTH AND NUTRITION	COOKING MATTERS- PILOTING INNOVATIVE WAYS TO OFFER FOOD SKILLS EDUCATION TO PARENTS IN THE HEALTHCARE SETTING-MSU EXTENSION
504	\$33,316	BOWLING GREEN STATE UNIVERSITY	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	COMMUNITY-ENGAGED SCHOLARSHIP TRAINING FOR SCIENTISTS AND STAKEHOLDERS
505	\$50,996	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Bassett, Tyler	NATURAL FEATURES INVENTORY MSUE	CG MNFI PINE BARRENS PLANNING SURVEY STEP MIB15210013
506	\$15,000	THE NATURE CONSERVANCY	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	GLFWRA BLAZING BRIGHTER
507	\$25,000	MICHIGAN DEPT OF NATURAL RESOURCES	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	BLAZING STAR BORER MOTH AND SECRETIVE LOCUST SURVEYS & MONITORING
508	\$31,574	MICHIGAN DEPT OF NATURAL RESOURCES	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	13 - FRD ISOTRIA VERTICILLATE STATUS ASSESSMENT IN MICHIGAN - 2020
509	\$12,000	MONSANTO CO	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATION OF TRECEPTA FOR YIELD AND EFFICACY ON WESTERN BEAN CUTWORM
<b>RESEARCH AND INNOVATION</b>					
510	\$514,512	NATIONAL INST OF HEALTH	Kaminski, Norbert	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	CANNABIS USE FREQUENCY AND ITS IMPACT ON MONOCYTE-MEDIATED INFLAMMATION IN HIV PATIENTS
511	\$419,786	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	LaPres, John	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	MULTIDISCIPLINARY TRAINING IN ENVIRONMENTAL TOXICOLOGY
512	\$5,006	COUNCIL OF GREAT LAKES GOVERNORS DBA GREAT LAKES ST LAWRENCE GOVERNORS & PREMIERS	Aliakbarian, Bahar	OFFICE OF RESEARCH AND INNOVATION	INVESTIGATION OF THE PERFORMANCE IMPACT OF DIGITAL TECHNOLOGY AND LOCK REDUNDANCY ON THE ST. MARYS RIVER

**Gift, Grant and Contract Report**  
**Board of Trustees**  
**September 2022**

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
513	\$726,250	MICHIGAN STATE UNIV FOUNDATION	Gage, Douglas	OFFICE OF RESEARCH AND INNOVATION	TECHNOLOGY COMMERCIALIZATION - MSUT (RG100310)
514	\$15,000	MUNSONHEALTHCARE	Hatfield, John	OFFICE OF RESEARCH AND INNOVATION	AXIA MEMBERSHIPS
<b>GRADUATE SCHOOL DEAN</b>					
515	\$57,414	BOSTON UNIV	Campa, Henry	GRADUATE SCHOOL DEAN	POSTDOCTORAL PATHWAYS - BROADENING ACCESS TO CAREER ADVANCEMENT
<b>UNIVERSITY ADVANCEMENT</b>					
516	\$31,862,798	VARIOUS DONORS - ADVANCEMENT	Tobin, Kim	VICE PRESIDENT UNIVERSITY ADVANCEMENT	GIFTS TO MSU FOR THE PERIOD 04/01/2022 TO 06/30/2022
<b>GENERAL UNIVERSITY ITEMS</b>					
517	\$45,085	CHILDRENS HOSPITAL OF MICHIGAN FOUNDATION	Martell, Dennis	MSU STUDENT HEALTH CENTER	IMPACTING OUTCOMES FOR STUDENTS IN RECOVERY
<b>MSU UNIVERSITY RESEARCH ORGANIZATION</b>					
518	\$200,000	DEFENSEWERX INC.	Nanzer, Jeffrey	MSU UNIVERSITY RESEARCH ORGANIZATION	DECENTRALIZED COORDINATION FOR DISTRIBUTED ADAPTIVITY IN WIRELESS NETWORKS
519	\$200,000	WRIGHT BROTHERS INST	Albrecht, John	UNIVERSITY RESEARCH ORGANIZATION	A 30-40 GHZ GAN TRANSCEIVER AND FREQUENCY TRANSLATION USING ON-CHIP GAN MIXERS
520	\$46,337	ICF INTL	Barnes Najor, Jessica	UNIVERSITY RESEARCH ORGANIZATION	LISTENING SESSIONS TO INFORM OFFICE OF HEAD START'S REGION XI FEDERAL REVIEW PILOT
521	\$133,000	LEIDOS	Becker, Mark	UNIVERSITY RESEARCH ORGANIZATION	SIMULATED TARGET TO MONITOR AND IMPROVE VISUAL TARGET DETECTION RATES
522	\$250,000	DEFENSEWERX INC.	Papapolymerou, Ioannis	UNIVERSITY RESEARCH ORGANIZATION	RESEARCH IN ADVANCED RF SYSTEMS: 6G FREQUENCY HOPPING
<b>VARIOUS</b>					
523	\$145,150	VARIOUS	Various	Various	60 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION

**Gift, Grant and Contract Report  
Board of Trustees  
September 2022**

	<b>Amount</b>	<b>Sponsor</b>	<b>Principal Investigator/ Director</b>	<b>Unit</b>	<b>Project Title</b>
524	\$6,640	AMERICANA FOUNDATION	Prentice, Roy	TOLLGATE FARM MSUE	MSU TOLLGATE ROSE GARDEN RENOVATION
	<b>\$191,712,098</b>	<b>Total September 2022 Board</b>			

CONSIGNMENT/NON-CASH GIFTS  
BOARD OF TRUSTEES  
September 9, 2022

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Zebra products 2 -Transition RFID portals 1 - RFID tunnel 1 - TT printer 2 - Thermal transfer printers Cords, adaptors & accessories	Zebra Industries	Axia Institute of Research & Innovation	\$68,931.03	Laboratory support
2	APPLE products 30 - 10.2-inch iPad 30 - Apple pencils 2 - 13-inch MacBook Air 20 - Apple watch series 7 GPS 1 - LocknCharge ic 30 cart 20 - iPhone SE 64GB Midnight 32 - 3-year support contract AppleCare for Schools	APPLE	Counseling, Educational Psychology & Special Education	\$41,364.45	Teaching supplies College of Education
3	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$25,892.10	Recruiting trip for MSU football
4	Air transportation	Dempsey Ventures	Intercollegiate Athletics/ Spartan Fund	\$21,002.50	Transportation to golf tournament
5	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$20,070.00	Recruiting trip for MSU basketball

6	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$19,020.27	Recruiting trip for MSU basketball
7	Equipment	Michigan Turfgrass	Plant, Soil & Microbial Sciences	\$11,556.00	Research support
8	Pure Stride for Michigan	Dia Foot	Intercollegiate Athletics/ Spartan Fund	\$10,197.96	Orthotics for football team
9	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$9,946.10	Recruiting trip for MSU basketball
10	Hosted Florida event	Joseph Marx	Intercollegiate Athletics/ Spartan Fund	\$8,914.05	Golf fees, snack & dinner for men's golf team.
11	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$8,078.78	Recruiting trip for MSU basketball
12	Hosted Grand Rapids donor event	Greg & Dawn Williams	Intercollegiate Athletics/ Spartan Fund	\$6,535.40	Hosted event for donors & Coach Tucker
13-52	Various	Various	Various	\$56,142.76	50 Consolidated non-cash gifts for individual values less than \$5,000  Specific details regarding transactions retained within University Advancement.  Summary details on file in the Contract & Grant Administration office, Hannah Administration Bldg. 426 Auditorium Road, Room 2, East Lansing, MI 48824.
			<b>TOTAL</b>	<b>\$307,651.40</b>	