

**MICHIGAN STATE
UNIVERSITY**

APPROVED

DECEMBER 13, 2019

**BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY**

November 26, 2019

MEMORANDUM

TO: Members of the Board of Trustees

FROM: Stephen Hsu, Senior 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 August 6, 2019 through November 12, 2019. The report is a compilation of 802 Gifts, Grants and Contracts plus 89 Consignment/Non-Cash Gifts, with a total value of \$170,353,811.



Office of the
**SENIOR VICE
PRESIDENT FOR
RESEARCH AND
INNOVATION**

Stephen Hsu
Senior Vice President

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FY 2019-20 TOTALS:

- | | |
|---|---------------|
| a) Gifts, Grants and Contracts only: | \$326,124,763 |
| b) Gifts, Grants and Contracts plus Consignments: | \$328,632,201 |
- (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.

Current Period / Year to Date

Gift & Grant Awards

Meeting Date: 12/13/2019

Current Period: Aug 6, 2019 - Nov 12, 2019

AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$94,554,343	\$171,141,617	80.6%
State of Michigan	\$3,708,302	\$4,889,522	2.3%
Other	\$4,468,684	\$9,715,173	4.6%
Industry/CO	\$1,572,618	\$4,199,399	2.0%
Foundation	\$16,072,976	\$21,248,223	10.0%
Association	\$553,366	\$1,267,734	0.6%
Research - Total	\$120,930,289	\$212,461,668	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$17,235,723	\$31,693,880	27.9%
State of Michigan	\$2,974,893	\$3,826,901	3.4%
Other	\$8,382,615	\$19,555,610	17.2%
Industry/CO	\$2,576,958	\$4,869,801	4.3%
Foundation	\$1,065,286	\$5,970,099	5.3%
Association	\$93,308	\$148,308	0.1%
Various Donors - Advancement	\$16,810,755	\$47,598,496	41.9%
Non-Research - Total	\$49,139,537	\$113,663,095	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$111,790,065	\$202,835,496	62.2%
State of Michigan	\$6,683,195	\$8,716,423	2.7%
Other	\$12,851,298	\$29,270,784	9.0%
Industry/CO	\$4,149,576	\$9,069,200	2.8%
Foundation	\$17,138,262	\$27,218,322	8.3%
Association	\$646,674	\$1,416,042	0.4%
Various Donors - Advancement	\$16,810,755	\$47,598,496	14.6%
TOTAL	\$170,069,826	\$326,124,763	100%

OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	318	620	54.4%
State of Michigan	28	41	3.6%
Other	83	188	16.5%
Industry/CO	87	146	12.8%
Foundation	50	70	6.1%
Association	37	75	6.6%
Research - Total	603	1,140	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	60	130	33.2%
State of Michigan	20	32	8.2%
Other	29	51	13.0%
Industry/CO	55	114	29.2%
Foundation	28	53	13.6%
Association	6	9	2.3%
Various Donors - Advancement	1	2	0.5%
Non-Research - Total	199	391	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	378	750	49.0%
State of Michigan	48	73	4.8%
Other	112	239	15.6%
Industry/CO	142	260	17.0%
Foundation	78	123	8.0%
Association	43	84	5.5%
Various Donors - Advancement	1	2	0.1%
TOTAL	802	1,531	100%

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 12/13/2019

Current Period: Aug 6, 2019 - Nov 12, 2019

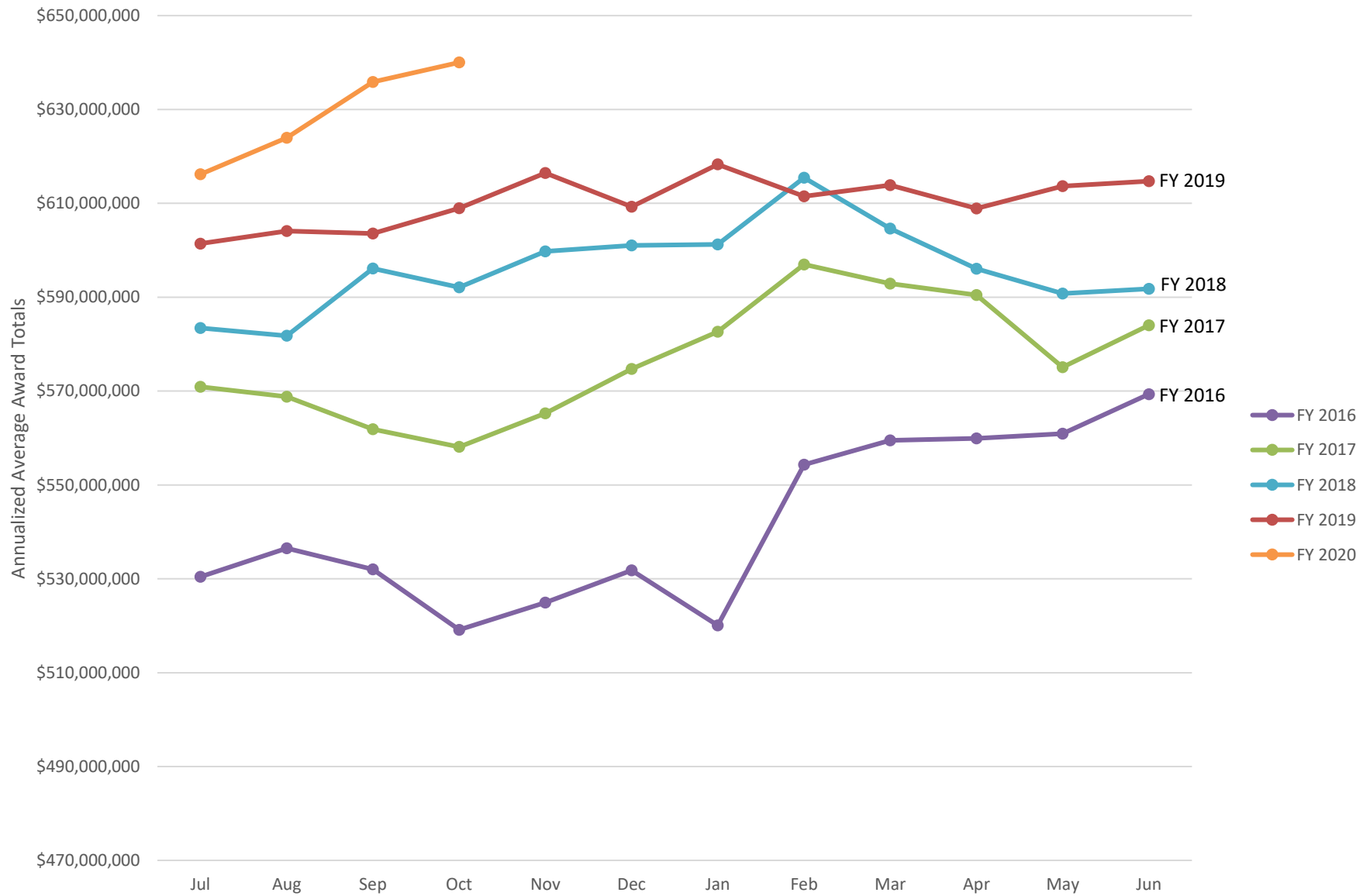
AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	207,039,839	\$171,141,617	-17.3%
State of Michigan	4,577,285	\$4,889,522	6.8%
Other	5,740,962	\$9,715,173	69.2%
Industry/CO	2,811,503	\$4,199,399	49.4%
Foundation	6,894,325	\$21,248,223	208.2%
Association	1,974,615	\$1,267,734	-35.8%
Research - Total	229,038,529	\$212,461,668	-7.2%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	36,998,864	\$31,693,880	-14.3%
State of Michigan	7,112,563	\$3,826,901	-46.2%
Other	7,391,341	\$19,555,610	164.6%
Industry/CO	2,747,639	\$4,869,801	77.2%
Foundation	1,742,500	\$5,970,099	242.6%
Association	561,269	\$148,308	-73.6%
Various Donors - Advancement	33,892,080	\$47,598,496	40.4%
Non-Research - Total	90,446,257	\$113,663,095	25.7%
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	244,038,704	\$202,835,496	-16.9%
State of Michigan	11,689,848	\$8,716,423	-25.4%
Other	13,132,303	\$29,270,784	122.9%
Industry/CO	5,559,143	\$9,069,200	63.1%
Foundation	8,636,825	\$27,218,322	215.1%
Association	2,535,884	\$1,416,042	-44.2%
Various Donors - Advancement	33,892,080	\$47,598,496	40.4%
TOTAL	319,484,786	\$326,124,763	2.1%

OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	605	620	2.5%
State of Michigan	42	41	-2.4%
Other	161	188	16.8%
Industry/CO	136	146	7.4%
Foundation	48	70	45.8%
Association	77	75	-2.6%
Research - Total	1,069	1,140	6.6%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	111	130	17.1%
State of Michigan	42	32	-23.8%
Other	78	51	-34.6%
Industry/CO	81	114	40.7%
Foundation	36	53	47.2%
Association	16	9	-43.8%
Various Donors - Advancement	2	2	0.0%
Non-Research - Total	366	391	6.8%
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	716	750	4.7%
State of Michigan	84	73	-13.1%
Other	239	239	0.0%
Industry/CO	217	260	19.8%
Foundation	84	123	46.4%
Association	93	84	-9.7%
Various Donors - Advancement	2	2	0.0%
TOTAL	1,435	1,531	6.7%

Michigan State University 3 Year Annualized Average Awards



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

Top 10 Awards for the December 13, 2019 BOT Meeting

Rank	Sponsor Type	Award Amount	Principal Investigator	Sponsor	Department	New or Modification	Award Activity Type	Project Dates	Project Title
1	Federal Government	10,657,500	Thomas Glasmacher	US Dept of Energy	FACILITY FOR RARE ISOTOPE BEAMS	Modification	Research	05/01/2009 01/14/2023	Facility for Rare Isotope Beams (FRIB)
2	Federal Government	7,500,000	Deanna East	US Dept of Agriculture	EXTENSION HEALTH AND NUTRITION	New	Public Service	10/01/2019 09/30/2020	Supplemental Nutrition Assistance Program Education
3	Federal Government	4,500,000	Bradley Sherrill	National Science Foundation	NAT'L SUPERCONDUCTING CYCLOTRON LAB	Modification	Research	10/01/2016 09/30/2021	Operation of the NSCL as a National User Facility & Research Program
4	Federal Government	3,297,170	Nigel Paneth	National Inst of Health	EPIDEMIOLOGY AND BIOSTATISTICS	Modification	Research	09/21/2016 08/31/2020	Prenatal Exposures and Child Health Outcomes: A Statewide Study
5	Foundation	2,905,000	Stephen Hsu	Michigan State Univ Foundation	RESEARCH AND INNOVATION SVP	Modification	Research	07/01/2013 12/31/2030	Technology Commercialization - MSUT (RG100310)
6	Federal Government	2,589,818	CRobin Buell	National Science Foundation	PLANT BIOLOGY CNS	New	Research	09/01/2019 08/31/2023	RESEARCH-PGR: Multiple origins of tuber formation: Evolution of a unique storage organ
7	Federal Government	2,499,999	Shelia Cotten	National Science Foundation	MEDIA AND INFORMATION	New	Research	09/01/2019 08/31/2023	FW-HTF-RL: Preparing the Future Workforce for the Era of Automated Vehicles (WEAVE)
8	Federal Government	2,000,000	Hendrik Schatz	National Science Foundation	NAT'L SUPERCONDUCTING CYCLOTRON LAB	New	Research	10/01/2019 09/30/2024	AccelNet-WOU: International Research Network for Nuclear Astrophysics (IReNA)
9	Federal Government	1,733,861	Aman Yadav	National Science Foundation	COUNSELING, EDUC PSYCH & SPEC EDUC	New	Research	09/01/2019 08/31/2022	iCT: Developing a Teacher Micro-credential for Integrating Computational Thinking Across Disciplines
10	Federal Government	1,599,495	Jianguo Liu	National Science Foundation	FISHERIES AND WILDLIFE	New	Research	10/01/2019 03/31/2023	CNH2-L: Uncovering Metacoupled Socio-Environmental Systems
TOTAL			39,282,843						

Gift, Grant and Contract Report

Board of Trustees

December 2019

	Amount	Sponsor	Director	Unit	Purpose
	COLLEGE OF AGRICULTURE AND NAT RESOURCES				
1	\$252,000	US AGENCY FOR INTL DEVELOPMENT	Boughton, Duncan	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FOOD SECURITY POLICY INNOVATION LAB - BURMA PROGRAM (FSP-BURMA)
2	\$78,586	TEXAS A&M UNIV	Caputo, Vincenzina	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	CHOICE BEHAVIOR AND DEMAND FOR ALTERNATIVE GENETICALLY ENGINEERED FOODS: A NEUROECONOMICS INVESTIGATION
3	\$100,000	US AGENCY FOR INTL DEVELOPMENT	Flores Navas, Luis	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ASSOCIATE AWARD APPLICATION (RFAAA) UNDER THE FEED THE FUTURE INNOVATION LAB FOR FOOD SECURITY POLICY, AID-OAA-L-13-00001 VENEZUELA
4	\$500,000	FOUNDATION FOR A SMOKE FREE WORLD	Jayne, Thomas	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ATI BASELINE SURVEY
5	\$1,500,000	US AGENCY FOR INTL DEVELOPMENT	Liverpool-Tasie, Lenis	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ENHANCING KNOWLEDGE AND CAPACITY TO STRENGTHEN AGRICULTURAL AND FOOD SECURITY POLICY PROCESSES IN NIGERIA
6	\$1,000,000	US AGENCY FOR INTL DEVELOPMENT	Maredia, Mywish	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	AGRICULTURE AND NUTRITION POLICY ACTIVITY TANZANIA ASSOCIATE AWARD
7	\$28,171	RUTGERS UNIV	Reardon, Thomas	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	NIGERIA DATA COLLECTION ANALYSIS
8	\$50,531	UNIVERSITY OF MICHIGAN	Scorsone, Eric	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	CITY OF DETROIT ECONOMIC AND REVENUE FORECASTING PROJECT.
9	\$128,709	PEW CHARITABLE TRUSTS	Scorsone, Eric	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	GOVERNMENT SUSTAINABILITY WORKGROUP
10	\$200,000	US AGENCY FOR INTL DEVELOPMENT	Tschirley, David	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FEED THE FUTURE INNOVATION LAB FOR FOOD SECURITY POLICY RESEARCH, CAPACITY, AND INFLUENCE
11	\$28,209	UNIVERSITY OF NEBRASKA - LINCOLN	Wolf, Christopher	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FARM BUSINESS MANAGEMENT AND BENCHMARKING COMPETITIVE GRANTS PROGRAM
12	\$308,379	NATIONAL INST OF HEALTH	Chen, Chen	ANIMAL SCIENCE DEPARTMENT ANR	MITOCHONDRIA-ANCHORED PROTEIN COMPLEXES IN PIRNA BIOGENESIS AND FUNCTION
13	\$329,375	NATIONAL INST OF HEALTH	Chen, Chen	ANIMAL SCIENCE DEPARTMENT ANR	TUDOR DOMAIN PROTEINS IN GERMLINE GENOME DEFENSE
14	\$5,830	MICHIGAN ANIMAL HEALTH FOUNDATION	Jacobs, Jacquelyn	ANIMAL SCIENCE DEPARTMENT ANR	THE EFFECT OF VIRTUAL FIELD TRIPS ON PRE-VETERINARY STUDENT LEARNING OUTCOMES AND ENGAGEMENT IN AN ANIMAL HEALTH AND MANAGEMENT COURSE
15	\$40,000	PERDUE AGRIBUSINESS LLC	Lock, Adam	ANIMAL SCIENCE DEPARTMENT ANR	PURDUE AGRIBUSINESS LLC
16	\$19,992	AMER QUARTER HORSE FOUNDATION	Nielsen, Brian	ANIMAL SCIENCE DEPARTMENT ANR	INFLUENCE OF CIRCLE SIZE AND SPEED ON FORCES EXPERIENCED BY EXERCISING HORSES
17	\$19,000	VARIOUS INDUSTRIES	Nielsen, Brian	ANIMAL SCIENCE DEPARTMENT ANR	DR. NIELSEN'S TESTING

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
18	\$24,284	PURDUE UNIV	Ghane, Ehsan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	MANAGING WATER FOR INCREASED RESILIENCY OF DRAINED AGRICULTURAL LANDSCAPES
19	\$299,699	US DEPT OF ENERGY	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	AOI-1: A COMBINED BIOLOGICAL AND CHEMICAL FLUE GAS UTILIZATION SYSTEM TOWARDS CARBON DIOXIDE CAPTURE FROM COAL-FIRED POWER PLANTS
20	\$35,668	AGRICULTURAL RESEARCH SERVICE	Liu, Yan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	DEVELOPMENT OF A FAST, COST-EFFECTIVE APPROACH FOR QUANTIFICATION OF MICROBIAL COMMUNITY SHIFT IN CHITIN AMENDED SOIL
21	\$192,467	UNIVERSITY OF ILLINOIS	Srivastava, Ajit	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	APPROPRIATE MECHANIZATION CONSORTIUM FOR SUSTAINABLE INTENSIFICATION
22	\$281,708	NATIONAL SCIENCE FOUNDATION	Besette, Douglas	DEPARTMENT OF COMMUNITY SUSTAINABILITY	COLLABORATIVE RESEARCH: GCR: A CONVERGENT DISCIPLINE IN SOCIO-TECHNOLOGICAL SYSTEM TRANSITIONS--RESEARCH ON MICHIGAN COMMUNITY & ANISHINAABE RENEWABLE ENERGY SOVEREIGNTY [MICARES]
23	\$10,000	DETROIT PUBLIC SCHOOLS	Colasanti, Kathryn	DEPARTMENT OF COMMUNITY SUSTAINABILITY	EVALUATION OF DETROIT PUBLIC SCHOOLS SCHOOL TO FARM PROGRAM
24	\$70,000	MICHIGAN DEPT OF EDUCATION	Forbush, Mark	DEPARTMENT OF COMMUNITY SUSTAINABILITY	2019/20 OCTE GRANT
25	\$29,673	WASHINGTON STATE UNIV	Howard, Philip	DEPARTMENT OF COMMUNITY SUSTAINABILITY	APPLE TO GLASS: IMPROVING ORCHARD PROFITABILITY THROUGH DEVELOPING REGIONAL CRAFT CIDERS
26	\$5,300	FORENSIC SCIENCES FOUNDATION	Benbow, Mark	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MICROBIAL COMMUNITY SUCCESSION OF SUBMERGED BONES IN AN AQUATIC HABITAT
27	\$6,000	MICHIGAN STATE HORTICULTURAL SOCIETY	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EFFECT OF TEMPERATURE AND DAY LENGTH ON REPRODUCTIVE MATURITY OF WINTER MORPH, SPOTTED WING DROSOPHILA
28	\$20,000	MICHIGAN TREE FRUIT COMMISSION	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MTFC - STERILE INSECT RELEASE FOR MANAGING CODLING MOTH IN MI APPLES
29	\$6,000	MICHIGAN STATE HORTICULTURAL SOCIETY	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SAMURAI WASP AS A POTENTIAL BIOLOGICAL CONTROL AGENT FOR BROWN MARMORATED STINK BUG
30	\$19,900	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESEARCH ON EXOTIC GRAPE PESTS IN MICHIGAN
31	\$10,000	BAYER CROPS SCIENCE	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BAYER EFFICACY TESTING TRIALS
32	\$84,000	USDA FOREST SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EMERALD ASH BORER NATIONAL INFORMATION NETWORK AND KITS
33	\$111,216	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BLACK ASH AND EAB - MSU

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
34	\$6,800	NUFARM AMERICAS INC	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NUFARM SCN NEMATICIDE TESTING
35	\$9,000	BAYER CROPSCIENCE	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BAYER NEMATICIDE TESTING ON BLUEBERRIES
36	\$10,080	MONSANTO CO	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SUGAR BEET/GREENHOUSE: EVALUATION OF SEED TREATMENTS FOR NEMATODE MANAGEMENT
37	\$10,000	MICHIGAN TURFGRASS FOUNDATION	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MICHIGAN TURFGRASS FOUNDATION - TURFGRASS RESEARCH 2019
38	\$8,316	BASF CORP	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BASF TESTING AGREEMENT DEV-I-2019-US-VA1-1.0
39	\$9,973	MICHIGAN STATE HORTICULTURAL SOCIETY	Szucs, Marianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MASS REARING AND RELEASE OF THE SAMURAI WASP, A NATURAL ENEMY OF BROWN MARMORATED STINK BUG
40	\$5,998	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
41	\$6,000	BAYER CROPSCIENCE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING BAYER INSECTICIDES FOR TREE FRUIT IPM
42	\$59,930	TECHACCEL	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MSU TRUNK INJECTION TRIAL FOR TECHACCEL: PLUG DELIVERY SYSTEM FOR RNAI ACTIVITY ON SPIDER MITES IN APPLES
43	\$16,632	SYNGENTA CROP PROTECTION INC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING EVALUATION AGREEMENT
44	\$34,841	RUTGERS UNIV	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEVELOPMENT AND UTILIZATION OF SUFFICIENT RESIDUE DATA TO SATISFY INTERNATIONAL DATA REQUIREMENTS FOR ESTABLISHMENT OF APPROPRIATE MAXIMUM RESIDUE LEVELS (MRLS)
45	\$16,632	SYNGENTA CROP PROTECTION INC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING EVALUATION AGREEMENT
46	\$17,000	BAYER CROPSCIENCE	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING BAYER INSECTICIDES FOR TREE FRUIT IPM
47	\$25,000	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Ziegler, Amos	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EAB BIOLOGICAL CONTROL MOBILE DATA COLLECTION FOR RELEASE, RECOVERY AND EVALUATION
48	\$264,000	USDA FOREST SERVICE	Ziegler, Amos	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NATIONAL SLOW THE SPREAD OF THE GYPSY MOTH (STS) PROJECT: NORTHERN REGIONAL DATABASE NODE
49	\$119,287	UNIVERSITY OF MICHIGAN	Bence, James	FISHERIES AND WILDLIFE	NMFS/SEA GRANT POPULATION AND ECOSYSTEM DYNAMICS GRADUATE FELLOWSHIP (EMILY MORGAN LILJESTRAND): USING SIMULATION AND APPLICATION TO EVALUATE THE PERFORMANCE OF STATE SPACE STOCK ASSESSMENT MODELS

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
50	\$33,000	MICHIGAN DEPT OF NATURAL RESOURCES	Brenden, Travis	FISHERIES AND WILDLIFE	EVALUATION OF MICHIGAN DNR LAKE HURON'S ATLANTIC SALMON STOCKING PROGRAM
51	\$40,893	MICHIGAN DEPT OF NATURAL RESOURCES	Brenden, Travis	FISHERIES AND WILDLIFE	FINE-SCALE SPACE USE OF GRASS CARP IN LAKE ERIE AND CONTINUING RESEARCH INTO GRASS CARP TRIBUTARY USE AND LARGE-SCALE MOVEMENT THROUGH ACOUSTIC TELEMTRY
52	\$809,666	NATIONAL SCIENCE FOUNDATION	Gore, Meredith	FISHERIES AND WILDLIFE	ISN2: DETECTING & INTERDICTING ILLICIT WILDLIFE TRAFFICKING SUPPLY CHAINS
53	\$9,921	MICHIGAN DEPT OF NATURAL RESOURCES	Hayes, Daniel	FISHERIES AND WILDLIFE	AQUATIC INVASIVE SPECIES ANGLER SURVEY SERVICES
54	\$54,751	MICHIGAN DEPT OF NATURAL RESOURCES	Hayes, Daniel	FISHERIES AND WILDLIFE	CLARIFYING KEY UNCERTAINTIES TO SUCCESSFUL REINTRODUCTION OF ARCTIC GRAYLING IN MICHIGAN STREAMS
55	\$83,183	MICHIGAN DEPT OF NATURAL RESOURCES	Infante, Dana	FISHERIES AND WILDLIFE	GREAT LAKES AND INLAND GIS SUPPORT AND DEVELOPMENT FOR MICHIGAN (STATE WILDLIFE ACTION PLAN) SWAP IMPLEMENTATION MSU REF. RC104616
56	\$59,152	GREAT LAKES FISHERY COMMISSION	Infante, Dana	FISHERIES AND WILDLIFE	ASSESSING HABITAT SUITABILITY FOR TARGET FISH SPECIES ABOVE AND BELOW BARRIERS ON LAKE MICHIGAN TRIBUTARIES
57	\$119,144	MICHIGAN DEPT OF NATURAL RESOURCES	Infante, Dana	FISHERIES AND WILDLIFE	SUPPORT FOR REVISION OF STATE WILDLIFE ACTION PLAN
58	\$1,599,495	NATIONAL SCIENCE FOUNDATION	Liu, Jianguo	FISHERIES AND WILDLIFE	CNH2-L: UNCOVERING METACOUPLED SOCIO-ENVIRONMENTAL SYSTEMS
59	\$280,000	MICHIGAN DEPT OF NATURAL RESOURCES	Loch, Thomas	FISHERIES AND WILDLIFE	DEVELOPMENT AND IMPLEMENTATION OF A FISH HEALTH INITIATIVE FOR MICHIGAN INLAND AND GREAT LAKES FISHERIES
60	\$10,000	SEA WORLD & BUSCH GARDENS CONSERVATION FUND	Montgomery, Robert	FISHERIES AND WILDLIFE	CONSERVING WILDLIFE BY BUILDING CAPACITIES IN LOCAL HUMAN COMMUNITIES IN UGANDA
61	\$10,000	MICHIGAN DEPT OF NATURAL RESOURCES	Owen, Jennifer	FISHERIES AND WILDLIFE	BURKE LAKE BANDING STATION SUPPORT
62	\$59,000	MAX MCGRAW WILDLIFE FOUNDATION	Riley, Shawn	FISHERIES AND WILDLIFE	CHANGING VALUE ORIENTATIONS OF WILDLIFE PROFESSIONALS
63	\$46,784	GREAT LAKES FISHERY COMMISSION	Robinson, John	FISHERIES AND WILDLIFE	ENVIRONMENTAL, BIOTIC, AND SAMPLING EFFECTS ON GENETIC ESTIMATES OF ADULT SEA LAMPREY ABUNDANCE IN GREAT LAKES TRIBUTARIES
64	\$26,920	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	WILDLIFE RESPONSES TO INNOVATIVE SILVICULTURAL APPROACHES IN NORTHERN HARDWOOD FORESTS OF MICHIGAN

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
65	\$205,000	MICHIGAN DEPT OF NATURAL RESOURCES	Roth, Brian	FISHERIES AND WILDLIFE	USING INNOVATIVE ENGINEERING APPROACHES TO ATTEMPT ERADICATION OF RED SWAMP CRAYFISH IN MICHIGAN
66	\$261,612	MICHIGAN DEPT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	REHABILITATION OF LAKE STURGEON POPULATIONS IN MICHIGAN
67	\$10,000	MICHIGAN DEPT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	GENETIC ANALYSES OF INLAND MICHIGAN LAKE POPULATIONS OF LAKE HERRING USING MICROSATELLITE GENOTYPING.
68	\$28,100	GREAT LAKES FISHERY COMMISSION	Taylor, William	FISHERIES AND WILDLIFE	T.F. WATERS PROFESSOR OF AQUATIC ECOLOGY AND CONSERVATION (FOR PROFESSOR CHARLES C. KRUEGER)
69	\$65,622	GREAT LAKES FISHERY COMMISSION	Taylor, William	FISHERIES AND WILDLIFE	GLFC PERM AGREEMENT FOR DR. SCOTT COLBORNE
70	\$500,000	COLORADO SCHOOL OF MINES	Carignan, Courtney	FOOD SCIENCE AND HUM NUTRITION ANR	POLY- AND PERFLUOROALKYL SUBSTANCE - U.S. NATIONAL INVESTIGATION OF TRANSPORT & EXPOSURE FROM DRINKING WATER & DIET
71	\$31,000	SILENT SPRING INST	Carignan, Courtney	FOOD SCIENCE AND HUM NUTRITION ANR	ASSESSMENT OF PEDIATRIC IMMUNOTOXICITY, PUBLIC EDUCATION, AND CAPACITY-BUILDING IN COMMUNITIES IMPACTED BY PFAS-CONTAMINATED DRINKING WATER
72	\$47,684	FOREIGN AGRICULTURAL SERVICE	Dolan, Kirk	FOOD SCIENCE AND HUM NUTRITION ANR	COCHRAN FELLOWSHIP PROGRAM- U.S. FOOD INGREDIENTS MARKETING FRO PERU
73	\$18,826	NATIONAL PARK SERVICE	Finley, Andrew	FORESTRY	ASSESSING THE FACTORS AFFECTING FOREST CONDITION ALONG THE APPALACHIAN NATIONAL SCENIC TRAIL (APPA) AND NEIGHBORING LANDS
74	\$50,000	USDA FOREST SERVICE	Finley, Andrew	FORESTRY	SMALL DOMAIN ESTIMATION USING STRATEGIC-LEVEL FOREST INVENTORY DATA AND AUXILIARY INFORMATION
75	\$80,000	NATIONAL SCIENCE FOUNDATION	Finley, Andrew	FORESTRY	COLLABORATIVE RESEARCH: HIGH-DIMENSIONAL SPATIAL-TEMPORAL MODELING AND INFERENCE FOR LARGE MULTI-SOURCE ENVIRONMENTAL MONITORING SYSTEMS
76	\$90,000	MICHIGAN DEPT OF NATURAL RESOURCES	Kobe, Richard	FORESTRY	MAGNIFYING THE IMPACT OF MICHIGAN STATE UNIVERSITY'S MASS TIMBER STEM BUILDING
77	\$115,000	TETRA TECH INC	Skole, David	FORESTRY	REPLACE LESTARI
78	\$129,835	ASIA PACIFIC NETWORK	Yin, Runsheng	FORESTRY	EMPIRICAL SYNTHESIZING OF APFNET FUNDED PROJECTS IN CHINA AND NEPAL; AND CAPACITY BUILDING OF APFNET STAFF
79	\$45,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Zarnetske, Phoebe	FORESTRY	USING GEODIVERSITY AND COMMUNITY ECOLOGY TO IMPROVE SPECIES CONSERVATION ASSESSMENTS IN BIODIVERSITY HOTSPOTS
80	\$22,080	FINE AMERICAS INC	Beaudry, Randolph	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF POSTHARVEST RESEARCH.

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
81	\$17,000	MICHIGAN APPLE COMMITTEE	Beaudry, Randolph	HORTICULTURE ANR	SIMULTANEOUS CONDITIONING TO PREVENT CHILLING INJURY AND CA INJURY IN APPLE
82	\$33,474	MICHIGAN APPLE COMMITTEE	Beaudry, Randolph	HORTICULTURE ANR	DYNAMIC CONTROLLED ATMOSPHERE (DCA) STORAGE: MAXIMIZING STORABILITY WHILE REDUCING DISORDERS
83	\$8,000	MICHIGAN TREE FRUIT COMMISSION	Einhorn, Todd	HORTICULTURE ANR	PEAR VARIETY AND TRAINING
84	\$20,768	MICHIGAN APPLE COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	OPTIMIZING TREE QUALITY FOR EARLY ORCHARD ESTABLISHMENT
85	\$33,145	MICHIGAN APPLE COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	PGR STRATEGIES TO REDUCE BITTERPIT OF HONEYCRISP
86	\$27,159	MICHIGAN APPLE COMMITTEE	Einhorn, Todd	HORTICULTURE ANR	NEW THINNING STRATEGIES TO IMPROVE APPLE PROFITABILITY AND PREDICTABILITY
87	\$9,731	MICHIGAN STATE HORTICULTURAL SOCIETY	Einhorn, Todd	HORTICULTURE ANR	MATCHING NEW ROOTSTOCK TRAITS (DWARFING, PRODUCTIVITY, DISEASE RESISTANCE) TO MICHIGAN NEEDS
88	\$9,000	INTL FRUIT TREE ASSOC	Lang, Gregory	HORTICULTURE ANR	COMPETITIVE ORCHARDS 2020: INTEGRATING AND OPTIMIZING SWEET CHERRY PRODUCTION PHYSIOLOGY, ORCHARD TECHNOLOGIES, AND EFFICIENCIES
89	\$9,724	MICHIGAN STATE HORTICULTURAL SOCIETY	Lang, Gregory	HORTICULTURE ANR	ADVANCED FRUITING WALL NECTARINE AND APRICOT PRODUCTION SYSTEMS
90	\$34,000	CORNELL UNIV	Lang, Gregory	HORTICULTURE ANR	ACCELERATING THE DEVELOPMENT, EVALUATION, AND ADOPTION OF NEW APPLE ROOTSTOCK TECHNOLOGIES TO IMPROVE APPLE GROWERS PROFITABILITY AND SUSTAINABILITY
91	\$30,000	PROVEN WINNERS NORTH AMERICA LLC	Lopez, Roberto	HORTICULTURE ANR	UNRESTRICTED GIFT IN FLORICULTURE RESEARCH.
92	\$10,000	FRED C GLOECKNER FOUNDATION	Lopez, Roberto	HORTICULTURE ANR	QUANTIFYING THE INFLUENCE OF SUBSTRATE AND WATER TEMPERATURE ON CALADIUM PRODUCTION
93	\$9,000	FRED C GLOECKNER FOUNDATION	Lopez, Roberto	HORTICULTURE ANR	DEVELOPING PROPAGATION AND PRODUCTION PROTOCOLS FOR POTTED CULINARY HERBS
94	\$15,000	HENRY MAST GREENHOUSES	Runkle, Erik	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF FLORICULTURE RESEARCH.
95	\$16,497	AMER FLORAL ENDOWMENT	Runkle, Erik	HORTICULTURE ANR	: DEVELOPMENT OF SOLE-SOURCE LIGHTING GUIDELINES FOR THE PRODUCTION OF FLORICULTURE TRANSPLANTS
96	\$48,450	AGRICULTURAL RESEARCH SERVICE	Runkle, Erik	HORTICULTURE ANR	ENVIRONMENTAL STRATEGIES AND PGR APPLICATIONS TO INCREASE PLANT RESILIENCE

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
97	\$7,381	MICHIGAN STATE HORTICULTURAL SOCIETY	Vannocker, Steven	HORTICULTURE ANR	CONTROL OF ALTERNATE BEARING IN 'HONEYCRISP' APPLE BY MANIPULATING FLOWERING
98	\$14,988	MICHIGAN APPLE COMMITTEE	Vannocker, Steven	HORTICULTURE ANR	OPTIMIZATION OF GIBBERELLIN- AND CYTOKININ-BASED PROGRAMS FOR CONTROL OF FLOWERING AND CROP LOAD IN 'HONEYCRISP'
99	\$6,000	BASF CORP	Zandstra, Bernard	HORTICULTURE ANR	UNRESTRICTED GIFT IN WEED SCIENCE RESEARCH.
100	\$24,947	US ENVIRONMENTAL PROTECTION AGENCY	Rabnawaz, Muhammad	PACKAGING	PLANET-FRIENDLY AND SCALABLE APPROACH TOWARDS 100% RECYCLABLE WATER- AND OIL-RESISTANT PAPER
101	\$32,088	MICHIGAN BEAN COMMISSION	Bales, Scott	PLANT SOIL AND MICROBIAL SCIENCES	FUNDS TO COVER START UP COSTS FOR DRY BEAN SPECIALIST
102	\$15,000	MICHIGAN BEAN COMMISSION	Bales, Scott	PLANT SOIL AND MICROBIAL SCIENCES	START UP FUNDS TO BE USED FOR THE PURCHASE OF A VEHICLE USED FOR DRY BEAN RESEARCH
103	\$14,055	UNIVERSITY OF MINNESOTA	Basso, Bruno	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATING MANURE COMPOSITION FROM PORTABLE SPECTROSCOPY WITH SIMULATION MODELING TO EVALUATE LONG-TERM DYNAMICS OF MANURE MINERALIZATION AND SUSTAINABILITY OF CROPPING SYSTEMS
104	\$35,000	MICHIGAN SUGARBEET ADVANCEMENT	Bublitz, Daniel	PLANT SOIL AND MICROBIAL SCIENCES	SALARIES AND SUPPLIES FOR RESEARCH ON SUGARBEETS
105	\$27,000	VARIOUS INDUSTRIES	Cassida, Kimberly	PLANT SOIL AND MICROBIAL SCIENCES	OLSON TESTING PROJECTS
106	\$21,064	UNIVERSITY OF MICHIGAN	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT AND EVALUATION OF NOVEL FUNGICIDAL SUCCINATE DEHYDROGENASE INHIBITORS
107	\$45,000	MICHIGAN WHEAT PROGRAM	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	IDENTIFYING AND MANAGING FUSARIUM SPECIES RESPONSIBLE FOR HEAD SCAB
108	\$279,300	VARIOUS INDUSTRIES	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CHILVERS PSM TESTING
109	\$29,220	VARIOUS INDUSTRIES	Cichy, Karen	PLANT SOIL AND MICROBIAL SCIENCES	POTATO TESTING
110	\$203,175	VARIOUS INDUSTRIES	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	DOUCHES PSM TESTING
111	\$10,750	VARIOUS INDUSTRIES	Frank, Kevin	PLANT SOIL AND MICROBIAL SCIENCES	FRANK PSM TESTING
112	\$64,036	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
113	\$183,857	VARIOUS INDUSTRIES	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	HAUSBECK PSM TESTING

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
114	\$116,279	AGRICULTURAL RESEARCH SERVICE	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	NEW TECHNOLOGIES THAT MANAGE PROFIT-LIMITING DISEASES WITH A FOCUS ON BOTRYTIS
115	\$15,000	JET PROPULSION LABORATORY	Ines, Amor Valeriano	PLANT SOIL AND MICROBIAL SCIENCES	DROUGHT AND CROP PRODUCTIVITY RHEAS IMPLEMENTATION FOR THE LOWER MEKONG
116	\$23,878	AGRICULTURAL RESEARCH SERVICE	Kelly, James	PLANT SOIL AND MICROBIAL SCIENCES	WILD BEANS [PHASEOLUS VULGARIS] DISEASE RESISTANCE AND ADAPTIVE ROOT TRAITS
117	\$131,689	AGRICULTURAL RESEARCH SERVICE	Kelly, James	PLANT SOIL AND MICROBIAL SCIENCES	BEAN FLOUR EVALUATION AND PRODUCT DEVELOPMENT
118	\$201,600	POTATOES USA	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	NATIONAL CHIP POTATO VARIETY COMMERCIALIZATION PROGRAM MANAGEMENT
119	\$11,500	VARIOUS INDUSTRIES	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	LONG POTATO TESTING
120	\$16,701	VARIOUS INDUSTRIES	Merewitz Holm, Emily	PLANT SOIL AND MICROBIAL SCIENCES	MEREWITZ PSM TESTING
121	\$36,764	MICHIGAN WHEAT PROGRAM	Merewitz Holm, Emily	PLANT SOIL AND MICROBIAL SCIENCES	USING PHYSIOLOGICAL AND HORMONE INDICATORS TO DEVELOP A NOVEL WINTER PREPARATORY MANAGEMENT STRATEGY FOR WINTER WHEAT
122	\$9,500	MICHIGAN STATE HORTICULTURAL SOCIETY	Miles, Laura	PLANT SOIL AND MICROBIAL SCIENCES	IMPLEMENTING VIRUS TESTING SERVICES FOR MICHIGAN GRAPE OWNERS
123	\$223,932	WASHINGTON STATE UNIV	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	FUNGICIDE RESISTANCE ASSESSMENT, MITIGATION AND EXTENSION NETWORK FOR WINE, TABLE AND RAISIN GRAPES
124	\$81,750	VARIOUS INDUSTRIES	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MILES PSM TESTING
125	\$15,766	AGRICULTURAL RESEARCH SERVICE	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MANAGING FUNGICIDE RESISTANCE IN BOTRYTIS CINEREA ON WINE AND TABLE GRAPE, STRAWBERRY AND BLUEBERRY
126	\$86,201	AGRICULTURAL RESEARCH SERVICE	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	NOVEL FIELD-BASED DIAGNOSTIC STRATEGIES FOR MANAGEMENT OF POWDERY MILDEW IN CALIFORNIA SPECIALTY CROPS
127	\$27,670	VARIOUS INDUSTRIES	Nikolai, Thomas	PLANT SOIL AND MICROBIAL SCIENCES	NIKOLAI PSM TESTING
128	\$47,309	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	EARLY GENERATION SELECTION FOR RESISTANCE TO FUSARIUM HEAD BLIGHT AND RUST PATHOGENS DURING RAPID EARLY GENERATION ADVANCEMENT IN WHEAT VARIETY DEVELOPMENT
129	\$32,474	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	2020 HIGH-MANAGEMENT TESTING OF MICHIGAN WHEAT VARIETIES

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
130	\$60,938	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING SOFT WINTER WHEAT VARIETIES FOR MICHIGAN, 2020
131	\$29,474	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	2019 HIGH-MANAGEMENT TESTING OF MICHIGAN WHEAT VARIETIES
132	\$32,000	VARIOUS INDUSTRIES	Rogers, John	PLANT SOIL AND MICROBIAL SCIENCES	ROGERS PSM TESTING
133	\$644,707	UNIVERSITY OF MINNESOTA	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	ENHANCING SOIL HEALTH IN U.S. POTATO PRODUCTION SYSTEMS
134	\$31,999	UNIVERSITY OF WISCONSIN MADISON	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	OPTIMIZING DISEASE MANAGEMENT AND YIELD IN POTATO VIA MICROBIOME-BASED PREDICTION.
135	\$45,471	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Sakalidis, Monique	PLANT SOIL AND MICROBIAL SCIENCES	ADVANCED TECHNOLOGY FOR DETECTION AND IDENTIFICATION OF PHYTOPHTHORA SPECIES IN U.S. NURSERIES
136	\$24,193	USDA FOREST SERVICE	Sakalidis, Monique	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATION OF THE EFFICACY OF ROTSTOP TO PREVENT THE SPREAD OF HRD
137	\$7,480	VARIOUS INDUSTRIES	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	SINGH PSM TESTING
138	\$39,848	MICHIGAN WHEAT PROGRAM	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	MAXIMIZING YIELD POTENTIAL IN WINTER WHEAT THROUGH PRECISION PLANTING AND AGRONOMIC MANAGEMENT
139	\$62,800	VARIOUS INDUSTRIES	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	SPRAGUE PSM TESTING
140	\$10,250	MICHIGAN WHEAT PROGRAM	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	CONTINUING TO IDENTIFY ROUGHSTALK BLUEGRASS MANAGEMENT STRATEGIES IN WINTER WHEAT
141	\$29,140	PURDUE UNIV	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	TAKE ACTION - MULTI STATE HERBICIDE RESISTANT ACROPS AND WEEDS EDUCATIONAL PROGRAM
142	\$45,480	MICHIGAN WHEAT PROGRAM	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	START RIGHT TO FINISH WELL: AUTUMN NUTRIENT MANAGEMENT FOR WINTER WHEAT GRAIN AND STRAW PRODUCTION
143	\$48,662	VARIOUS INDUSTRIES	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	STEINKE PSM TESTING
144	\$10,659	MICHIGAN STATE HORTICULTURAL SOCIETY	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	DISCOVERY OF BACTERIOPHAGE INFECTING THE BACTERIAL SPOT PATHOGEN XANTHOMONAS ARBORICOLA PV. PRUNI: POTENTIAL FOR BIOCONTROL
145	\$113,482	VARIOUS INDUSTRIES	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	SUNDIN PSM TESTING
146	\$116,505	VARIOUS INDUSTRIES	Vargas, Joseph	PLANT SOIL AND MICROBIAL SCIENCES	VARGAS PSM TESTING

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
147	\$10,584	VARIOUS INDUSTRIES	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	WANG TESTING PROJECTS
148	\$99,166	UNITED SOYBEAN BOARD	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT AND COMMERCIALIZATION OF ADVANCED HIGH OLEIC GERMPASM LINES WITH NATURAL MUTATIONS
149	\$58,018	AGRICULTURAL RESEARCH SERVICE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	ENHANCING SOYBEAN FOR RESISTANCE TO SCLEROTINIA STEM ROT
150	\$46,450	VARIOUS INDUSTRIES	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	WILLBUR PSM TESTING
151	\$1,200,000	NATIONAL SCIENCE FOUNDATION	Mollaoglu, Sinem	SCHOOL OF PLANNING DES CONSTRUCTION ANR	FW-HTF-RM: INTELLIGENT SOCIAL NETWORK INTERVENTIONS TO AUGMENT HUMAN COGNITION FOR BOLSTERED INTERDISCIPLINARY INTERACTIONS IN PROJECT TEAMS
152	\$210,000	USDA-NATURAL RESOURCES CONSERVATION SERVICE	Asher, Aaron	WATER RESEARCH INSTITUTE ANR	FLOATING WETLANDS FOR TREATMENT OF EXCESS NUTRIENTS
COLLEGE OF ARTS AND LETTERS					
153	\$6,054	FEDERAL REPUBLIC OF GERMANY	Handelman, Matthew	LINGUISTICS,GERM,SLAVIC,ASIAN,AFR LANG	100 YEARS OF BAUHAUS: "WUNDERBAR TOGETHER" CAMPUS WEEKS 2019
154	\$15,000	WOODROW WILSON NATIONAL FELLOWSHIP FOUNDATION	Ruiz, Elena	PHILOSOPHY	THE HYDRIC LIFE OF VIOLENCE
ELI BROAD COLLEGE OF BUSINESS					
155	\$96,500	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Frayer, David	EXECUTIVE DEVELOPMENT PROGRAMS	CRITICAL THINKING SKILLS WORKSHOPS FOR QUALITY OF LIFE STAFF
156	\$104,000	MICHIGAN ECONOMIC DEVELOPMENT CORP	Hult, Tomas	INTERNATIONAL BUSINESS CENTER	MEDC INTERNATIONAL TRADE: REGIONAL EXPORT NETWORK 2017-2022 WITH ANNUAL EXTENSIONS: 2018-2019 (2/5 PERIOD) ORIGINAL MSU PROPOSAL #26894
COLLEGE OF COMMUNICATION ARTS SCIENCES					
157	\$31,068	UNIVERSITY OF UTAH	Besley, John	ADVERTISING AND PUBLIC RELATIONS	INNOVATION AND DEVELOPMENT STRATEGIES TO SCALE AND SUSTAIN TRAINING PROGRAMS TO ENGAGE "HARD TO REACH" PUBLICS: THE STEM AMBASSADOR PROGRAM
158	\$33,000	CAPITAL AREA UNITED WAY INC	Elkins, Susanne	BROADCASTING SERVICES	ENGAGING FAMILIES IN EARLY LITERACY
159	\$300,000	NATIONAL SCIENCE FOUNDATION	Bente, Gary	COMMUNICATION	CHS: SMALL: A DATA-DRIVEN COMPUTATIONAL MODEL OF DYADIC RAPPORT: LEARNING AND TRANSFORMING NONVERBAL BEHAVIOR IN SHARED VIRTUAL ENVIRONMENTS.
160	\$106,679	UNIVERSITY OF DELAWARE	Deliyski, Dimitar	COMMUNICATIVE SCIENCES DISORDERS CAS	COGNITIVE AND BIOLOGICAL MECHANISMS IN PEDIATRIC VOICE THERAPY

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
161	\$5,670	US EMBASSY BRASILIA	Reis Mourao, Rachel	JOURNALISM	MICHIGAN-BRAZIL MULTIMEDIA JOURNALISM PROGRAM
162	\$30,527	US DEPT OF STATE	Takahashi, Bruno	JOURNALISM	BUILDING RESPONSE CAPACITY AMONG JOURNALISTS TO ADDRESS NATURAL AND MANMADE ENVIRONMENTAL DISASTERS AND THREATS IN PERU
163	\$2,499,999	NATIONAL SCIENCE FOUNDATION	Cotten, Shelia	MEDIA AND INFORMATION	FW-HTF-RL: PREPARING THE FUTURE WORKFORCE FOR THE ERA OF AUTOMATED VEHICLES (WEAVE)
164	\$92,950	HOSPICE OF MICHIGAN	Heeter, Carrie	MEDIA AND INFORMATION	BURNOUT PREVENTION IN HOSPICE AND PALLIATIVE CARE WORKERS
165	\$16,000	NATIONAL SCIENCE FOUNDATION	Wash, Rick	MEDIA AND INFORMATION	SATC: CORE: SMALL: USING STORIES TO IMPROVE COMPUTER SECURITY DECISION MAKING
COLLEGE OF EDUCATION					
166	\$193,429	NATIONAL SCIENCE FOUNDATION	Schneider, Barbara	CED OFFICE OF THE DEAN	SUPPLEMENT: PIRE: CRAFTING OPTIMAL LEARNING IN SCIENCE ENVIRONMENTS
167	\$22,634	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	PARENT SUPPORT PARTNER (PSP) EVALUATION
168	\$70,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	CHILDREN'S FETAL ALCOHOL SPECTRUM DISORDER (FASD) EVALUATION
169	\$44,338	MICHIGAN REHABILITATION SERVICES	Egidio, Rhonda	COUNSELING, EDUC PSYCH & SPEC EDUC	DHS/DTMB E-LEARN SYSTEM
170	\$95,410	INST OF EDUCATION SCIENCES	Fisher, Marisa	COUNSELING, EDUC PSYCH & SPEC EDUC	EFFECT OF A 9-MONTH SOFT SKILLS AND WORK-BASED EMPLOYMENT TRAINING PROGRAM IN IMPROVING TRANSITION STUDENTS' SUCCESS: A RANDOMIZED CONTROLLED TRIAL STUDY
171	\$350,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Leahy, Michael	COUNSELING, EDUC PSYCH & SPEC EDUC	MICHIGAN DEPARTMENT OF REHABILITATION SERVICES PROGRAM EVALUATION PROJECT EXCELLENCE
172	\$413,503	NATIONAL INST OF HEALTH	Linnenbrink-Garcia, Lisa	COUNSELING, EDUC PSYCH & SPEC EDUC	UNDERGRADUATE ENRICHMENT EXPERIENCES TO SUPPORT BIOMEDICAL CAREERS: AN INVESTIGATION OF UNDERLYING PSYCHOLOGICAL MECHANISMS
173	\$100,000	SOAR TECHNOLOGY INC	Torphy, Kaitlin	COUNSELING, EDUC PSYCH & SPEC EDUC	PHASE II SBIR RAPID CONSTRUCTION OF HETEROGENEOUS MODELS ("RACHEM")
174	\$317,708	US DEPT OF EDUCATION	Troia, Gary	COUNSELING, EDUC PSYCH & SPEC EDUC	TITLE: FOURTH AND FIFTH GRADERS' GROWTH IN WRITING KNOWLEDGE, MOTIVATION, AND PERFORMANCE: THE INFLUENCE OF TEACHER INSTRUCTION AND ASSESSMENT PRACTICES IN THE CONTEXT OF COMMON CORE STATE STANDARDS A
175	\$306,978	HUNTER COLLEGE	Yadav, Aman	COUNSELING, EDUC PSYCH & SPEC EDUC	EXPANDING ACCESS TO COMPUTING: DEVELOPING TEACHER KNOWLEDGE TO INTEGRATE COMPUTATIONAL THINKING IN ELEMENTARY CLASSROOMS

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
176	\$1,733,861	NATIONAL SCIENCE FOUNDATION	Yadav, Aman	COUNSELING, EDUC PSYCH & SPEC EDUC	ICT: DEVELOPING A TEACHER MICRO-CREDENTIAL FOR INTEGRATING COMPUTATIONAL THINKING ACROSS DISCIPLINES
177	\$299,936	NATIONAL SCIENCE FOUNDATION	Yadav, Aman	COUNSELING, EDUC PSYCH & SPEC EDUC	EAGER:COLLABORATIVE RESEARCH:STRATEGIES FOR DEVELOPING SPECIAL EDUCATION PRESERVICE TEACHER COMPETENCIES ININTEGRATED MATHEMATICS+COMPUTING
178	\$1,589,000	GEORGE LUCAS EDUCATIONAL FOUNDATION	Krajcik, Joseph	CREATE FOR STEM	MULTIPLE LITERACIES IN PROJECT BASED LEARNING - SUPPLEMENT - MATURATION STUDY.
179	\$86,250	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
180	\$548,750	VARIOUS SCHOOLS	Paine, Lynn	EDUCATION DEAN	CHINESE TEACHER CERTIFICATION PROGRAM
181	\$165,415	NATIONAL OFFICE OF CHINESE LANGUAGE COUNCIL INTL HAN BAN	Paine, Lynn	EDUCATION DEAN	CONTINUATION OF THE CONFUCIUS INSTITUTE AT MICHIGAN STATE UNIVERSITY
182	\$212,827	LAURA & JOHN ARNOLD FOUNDATION	Cowen, Joshua	EDUCATION POLICY CENTER	MICHIGAN EDUCATION DATA RESEARCH CENTER ADDITIONAL FUNDS
183	\$540,810	W K KELLOGG FOUNDATION	Strunk, Katharine	EDUCATION POLICY CENTER	EVALUATING MICHIGAN'S EARLY LITERACY COACHING INITIATIVE
184	\$18,204	NATIONAL SCIENCE FOUNDATION	Amey, Marilyn	EDUCATIONAL ADMINISTRATION	REQUEST FOR SUPPLEMENTAL FUNDING FOR "AGEP TRANSFORMATION ALLIANCE: CIRTL AGEP - INCLUSIVE EXCELLENCE AND IMPROVED CLIMATE FOR FUTURE FACULTY"
185	\$54,617	NATIONAL SCIENCE FOUNDATION	Amey, Marilyn	EDUCATIONAL ADMINISTRATION	COLLABORATIVE RESEARCH: AGEP TRANSFORMATION ALLIANCE: CIRTL AGEP - INCLUSIVE EXCELLENCE AND IMPROVED CLIMATE FOR FUTURE FACULTY
186	\$243,232	NATIONAL SCIENCE FOUNDATION	Kim, Dongbin	EDUCATIONAL ADMINISTRATION	LEAVING THE UNITED STATES AND WORKING ABROAD: BUILDING A FRAMEWORK FOR AMERICAN SCIENTIFIC LEADERSHIP
187	\$65,002	UNIVERSITY OF CONNECTICUT	Mavrogordato, Madeline	EDUCATIONAL ADMINISTRATION	DISTRICT POLICIES RELATED TO PRINCIPAL EVALUATION, LEARNING-CENTERED LEADERSHIP, AND STUDENT ACHIEVEMENT
188	\$25,000	AMER EDUCATIONAL RESEARCH ASSOC	Mavrogordato, Madeline	EDUCATIONAL ADMINISTRATION	HIGH SCHOOL COURSE-TAKING AND ENROLLMENT IN STEM MAJORS: A HOLISTIC PICTURE OF THE "GOLDEN COMBINATION" OF MATHEMATICS AND SCIENCE COURSE
189	\$5,415	PRATT & MILLER ENGINEERING	Ferguson, David	KINESIOLOGY - ED	RACING
190	\$695,828	NATIONAL SCIENCE FOUNDATION	Calabrese Barton, Angela	TEACHER EDUCATION	EQUITABLY CONSEQUENTIAL MAKING AMONG YOUTH FROM HISTORICALLY MARGINALIZED COMMUNITIES

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
191	\$327,265	NATIONAL SCIENCE FOUNDATION	Calabrese Barton, Angela	TEACHER EDUCATION	SCIENCE LEARNING + PARTNERSHIPS: PARTNERING FOR EQUITABLE STEM PATHWAYS FOR UNDERREPRESENTED YOUTH
192	\$450,000	WILLIAM & FLORA HEWLETT FOUNDATION	Flennaugh, Terry	TEACHER EDUCATION	NETWORKED IMPROVEMENT COMMUNITY ON RACIAL EQUITY IN TEACHER EDUCATION: MICHIGAN STATE UNIVERSITY, MINNESOTA STATE UNIVERSITY, MANKATO, CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS, AND FHI 360
193	\$182,788	NATIONAL SCIENCE FOUNDATION	Herbel-Eisenmann, Beth	TEACHER EDUCATION	NSF IPA ASSIGNMENT FOR DR. BETH HERBEL-EISENMANN
194	\$582,775	NATIONAL SCIENCE FOUNDATION	Wright, Tanya	TEACHER EDUCATION	DEVELOPING A DISCOURSE OBSERVATION TOOL AND ONLINE PROFESSIONAL DEVELOPMENT TO PROMOTE SCIENCE, ORAL LANGUAGE AND LITERACY DEVELOPMENT FROM THE START OF SCHOOL (SOLID START)
COLLEGE OF ENGINEERING					
195	\$11,385	VARIOUS INDUSTRIES	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	FEE FOR SERVICE -- CARL BOEHLERT
196	\$536,353	BASF CORP	Boeman, Raymond	CHEMICAL ENGINEERING AND MATERIALS SCI	BASF - AUTOMATED SPRAY FOAM PROJECT
197	\$196,097	INST FOR ADVANCED COMPOSITES MANUFACTURING INNOVATION	Boeman, Raymond	CHEMICAL ENGINEERING AND MATERIALS SCI	IACMI PROJECT 6.20 (VARTEGA) - CLOSING THE LOOP ON AUTOMOTIVE CARBON FIBER PREPREG MANUFACTURING SCRAP
198	\$50,000	UNIVERSITY OF MARYLAND	Qi, Yue	CHEMICAL ENGINEERING AND MATERIALS SCI	NANOSTRUCTURES FOR ELECTRICAL ENERGY STORAGE
199	\$108,482	NATIONAL SCIENCE FOUNDATION	Zevalkink, Alexandra	CHEMICAL ENGINEERING AND MATERIALS SCI	TRAVELING SOLVENT CRYSTAL GROWTH OF ANISOTROPIC ZINTL THERMOELECTRICS
200	\$349,672	STATE OF IOWA DEPT OF TRANSPORTATION	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	USE OF ORGANOSILANES TO MITIGATE THE IMPACT OF FREEZE-THAW DAMAGE TO THE GRANULAR ROADWAYS IN IOWA
201	\$314,923	NATIONAL SCIENCE FOUNDATION	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	COLLABORATIVE RESEARCH: ENGINEERED WATER REPELLENCY TO MITIGATE FROST SUSCEPTIBILITY: DECOUPLING OSMOTIC AND MATRIC POTENTIAL
202	\$61,492	UNIVERSITY OF WISCONSIN MADISON	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	USE OF WASTE QUARRY FINES AS A BINDING MATERIAL IN UNPAVED ROADS
203	\$250,000	STATE OF IOWA DEPT OF TRANSPORTATION	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	ADVANCED TESTING AND CHARACTERIZATION OF IOWA
204	\$53,782	UNIVERSITY OF WISCONSIN MADISON	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	USE OF CONCRETE GRINDING RESIDUE AS A SOIL AMENDMENT

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
205	\$50,000	STATE OF IOWA DEPT OF TRANSPORTATION	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	INCREASING PAVEMENT PERFORMANCE THROUGH PAVEMENT FOUNDATION DESIGN MODULUS VERIFICATION AND CONSTRUCTION QUALITY MONITORING
206	\$249,978	ALFRED P SLOAN FOUNDATION	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	FUTURE GROWTH OF DIVERSE DEMAND RESPONSE RESOURCES AND THEIR IMPACT ON TRANSMISSION AND DISTRIBUTION
207	\$100,000	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM	Chatti, Karim	CIVIL AND ENVIRONMENTAL ENGINEERING	LTPP DATA ANALYSIS: FEASIBILITY OF USING LTPP DATA TO IMPROVE USE OF FWD AND LONGITUDINAL PROFILE MEASUREMENTS
208	\$160,811	MICHIGAN FITNESS FOUNDATION	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	TECHNICAL SUPPORT FOR MICHIGAN SAFE ROUTES TO SCHOOL - FY2020
209	\$118,494	MICHIGAN OFFICE OF HIGHWAY SAFETY PLANNING	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	SEAT BELT AND HAND-HELD DEVICE USE DIRECT OBSERVATION SURVEY
210	\$10,000	MICHIGAN ENERGY OFFICE	Ghamami, Mehrnaz	CIVIL AND ENVIRONMENTAL ENGINEERING	ELECTRIC VEHICLE CHARGER PLACEMENT OPTIMIZATION PROJECT - NEW \$10K
211	\$45,000	NATIONAL CENTER FOR MANUFACTURING SCIENCE	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	REVERSIBLE ADHESIVE SYSTEMS FOR SPALL-LINER APPLICATIONS
212	\$30,000	COLLABORATIVE COMPOSITE SOLUTIONS CORP	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	TAS 5.7: TAILORED FIBER PLACEMENT FOR COMPLEX PREFORMS
213	\$130,000	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM	Kutay, Muhammed	CIVIL AND ENVIRONMENTAL ENGINEERING	DEVELOPMENT OF A FAST AND COST EFFECTIVE ASPHALT MIXTURE FATIGUE TEST SYSTEM
214	\$396,892	MICHIGAN DEPT OF TRANSPORTATION	Kutay, Muhammed	CIVIL AND ENVIRONMENTAL ENGINEERING	EVALUATION OF MDOT'S LONG-LIFE PILOT PROJECTS
215	\$95,000	FORD MOTOR CO	Lu, Weiyi	CIVIL AND ENVIRONMENTAL ENGINEERING	GIFT: LIQUID NANOFOAM-ENABLED ADVANCED PROTECTION MECHANISMS
216	\$105,108	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
217	\$300,000	MICHIGAN DEPT OF TRANSPORTATION	Savolainen, Peter	CIVIL AND ENVIRONMENTAL ENGINEERING	DEVELOPING A CONSISTENT DATA DRIVEN METHODOLOGY TO MULTIMODAL, PERFORMANCE BASED AND CONTEXT SENSITIVE DESIGN
218	\$16,852	VARIOUS INDUSTRIES	Drzal, Lawrence	COMPOSITE MATERIALS AND STRUCTURES CTR	EGR CMSC FEE FOR SERVICE
219	\$31,440	US ARMY RESEARCH OFFICE	Zayernouri, Mohsen	COMPUTATIONAL MATH SCI AND ENGR EGR	A STOCHASTIC FRACTIONAL MODELING FRAMEWORK FOR DESIGN OF NEW FUNCTIONAL MATERIALS

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
220	\$231,292	NATIONAL SCIENCE FOUNDATION	Zayernouri, Mohsen	COMPUTATIONAL MATH SCI AND ENGR EGR	STOCHASTIC AGING MODELING AND FAILURE PREDICTION OF POWER GRID
221	\$169,302	UNIVERSITY OF TULSA	Cheng, Betty	COMPUTER SCIENCE AND ENGINEERING	AN UNCERTAINTY-AWARE APPROACH TO CERTIFYING ASSURANCE FOR AUTONOMOUS SYSTEMS
222	\$134,422	OFFICE OF NAVAL RESEARCH	Kordjamshidi, Parisa	COMPUTER SCIENCE AND ENGINEERING	A DECLARATIVE LEARNING BASED PROGRAMMING FRAMEWORK FOR INTEGRATION OF DOMAIN KNOWLEDGE AND STATISTICAL LEARNING
223	\$146,013	NATIONAL INST OF STANDARDS & TECHNOLOGY	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	ON THE STUDY OF BIAS IN FACE RECOGNITION
224	\$211,712	NATIONAL SCIENCE FOUNDATION	Liu, Yunhao	COMPUTER SCIENCE AND ENGINEERING	CNS CORE: SMALL: COLLABORATIVE: COALESCENT COMPUTING - NEW THEORY, MECHANISM AND PLATFORM FOR ADAPTIVE EDGE COMPUTING
225	\$350,000	WEST VIRGINIA UNIV	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	SEQUENTIAL VERSUS PARALLEL FUSION FOR SEARCHING LARGE-SCALE MULTIMODAL DATABASES (SLMD)
226	\$200,000	NATIONAL SCIENCE FOUNDATION	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	COLLABORATIVE RESEARCH: CONVERGING GENOMICS, PHENOMICS, AND ENVIRONMENTS USING INTERPRETABLE MACHINE LEARNING MODELS
227	\$800,000	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	PRESENTATION ATTACK DETECTION: SOLUTIONS FOR FINGERPRINTS, FACE AND IRIS SYSTEMS
228	\$100,000	NATIONAL SCIENCE FOUNDATION	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	PHASE II IUCRC MICHIGAN STATE UNIVERSITY: CENTER FOR IDENTIFICATION TECHNOLOGY RESEARCH (CITER)
229	\$20,000	NEC LABORATORIES AMERICA INC	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	SEQUENTIAL LEARNING
230	\$66,679	NATIONAL SCIENCE FOUNDATION	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	III: SMALL: COLLABORATIVE RESEARCH: EFFECTIVE LABELED DATA GENERATION VIA GENERATIVE ADVERSARIAL LEARNING
231	\$206,815	NATIONAL SCIENCE FOUNDATION	Yan, Qiben	COMPUTER SCIENCE AND ENGINEERING	NETS: SMALL: COOPERATIVE INTERFERENCE-EMBRACING COMMUNICATION IN MULTI-HOP WIRELESS NETWORKS
232	\$404,497	NATIONAL SCIENCE FOUNDATION	Yan, Qiben	COMPUTER SCIENCE AND ENGINEERING	SATC: CORE: SMALL: URADIO: TOWARDS SECURE SMART HOME IOT COMMUNICATION USING HYBRID ULTRASONIC-RF RADIO
233	\$20,000	XKOOL TECHNOLOGY LIMITED	Zhou, Jiayu	COMPUTER SCIENCE AND ENGINEERING	AI FOR ARCHITECTURE AND LANDSCAPE PLANNING
234	\$249,057	TECH X CORP	Albrecht, John	ELECTRICAL AND COMPUTER ENGINEERING	INNOVATIVE TECHNOLOGY FOR HIGH POWER THZ AMPLIFICATION
235	\$112,000	US DEPT OF ENERGY	Baryshev, Sergey	ELECTRICAL AND COMPUTER ENGINEERING	LIGHT AND ELECTRON EMISSION AS BREAKDOWN PROBES: SYNERGISTIC DC AND RF STUDY

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
236	\$50,000	UNIVERSITY OF AKRON	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	MULTI-MODAL NDE ASSISTED PROBABILISTIC PIPELINE PERFORMANCE EVALUATION UNDER INTERACTIVE ANOMALIES
237	\$11,921	GAS TECHNOLOGY INST	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPMENT OF A ROBOT ENABLED STRUCTURED LIGHT SENSING TOOL FOR PIPELINE INSPECTION
238	\$35,328	NATIONAL SCIENCE FOUNDATION	Fan, Qi	ELECTRICAL AND COMPUTER ENGINEERING	RESOLVING ABNORMAL TARGET EROSION IN HIGH FREQUENCY MAGNETRON DISCHARGE
239	\$50,000	MICHIGAN TECHNOLOGICAL UNIVERSITY	Fan, Qi	ELECTRICAL AND COMPUTER ENGINEERING	PLASMA SOURCES WITH BROAD RANGE OF ION ENERGIES FOR THIN FILM PROCESSING
240	\$38,430	US ARMY RESEARCH OFFICE	Grotjohn, Timothy	ELECTRICAL AND COMPUTER ENGINEERING	SECOND WORKSHOP ON DIAMOND ELECTRONICS: STATUS, CHALLENGES, AND OPPORTUNITIES
241	\$42,158	US NAVAL RESEARCH LABORATORY	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	FIBER SENSORS TO QUANTIFY UNDERWATER MIXING PROCESS IN A LAB ENVIRONMENT
242	\$349,914	NATIONAL SCIENCE FOUNDATION	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	FIBER-OPTIC HOT-WIRE/HOT-FILM ANEMOMETERS FOR TURBULENCE MEASUREMENT
243	\$55,000	NATIONAL SCIENCE FOUNDATION	Li, Wen	ELECTRICAL AND COMPUTER ENGINEERING	INTERN: IMPLANTABLE, WIRELESS, AND POWER-EFFICIENT TRIMODAL NEURAL INTERFACE FOR ELECTRO-OPTOGENETIC MANIPULATION OF VISUAL CORTEX IN SMALL FREELY BEHAVING ANIMALS
244	\$403,086	NATIONAL SCIENCE FOUNDATION	Mahapatra, Nihar	ELECTRICAL AND COMPUTER ENGINEERING	RAISE: C-ACCEL PILOT - TRACK B1: AI-BASED DECISION SUPPORT FOR LINKING WORKERS WITH FUTURE JOBS AND FOR PLANNING WORK TRANSITION AND CAREER PATHWAY
245	\$56,450	COMBATting TERRORISM TECHNICAL SUPPORT OFFICE	Papapolymerou, Ioannis	ELECTRICAL AND COMPUTER ENGINEERING	FLEXIBLE MINIATURIZED LOW COST UHF ANTENNAS USING NANOMAGNETIC BASED FILMS- PHASE 3: SCOS-R4191-PROPOSALTEAM1-30222-FP
246	\$25,000	HONEYWELL CORP	Papapolymerou, Ioannis	ELECTRICAL AND COMPUTER ENGINEERING	MSU RADAR 2021
247	\$44,400	SAE INTERNATIONAL	Radha, Hayder	ELECTRICAL AND COMPUTER ENGINEERING	GM/SAE AUTODRIVE CHALLENGE - RESEARCH
248	\$1,062,693	NATIONAL SCIENCE FOUNDATION	Ren, Jian	ELECTRICAL AND COMPUTER ENGINEERING	SPX: TOWARD NETWORK LEVEL PARALLEL COMPUTING: SECURITY, EFFICIENCY AND SCALABILITY
249	\$250,000	NATIONAL SCIENCE FOUNDATION	Ren, Jian	ELECTRICAL AND COMPUTER ENGINEERING	RUI: SPECEES: COLLABORATIVE RESEARCH: ENABLING SECURE, ENERGY-EFFICIENT, AND SMART IN-BAND FULL DUPLEX WIRELESS
250	\$81,990	NATIONAL SCIENCE FOUNDATION	Sepulveda Alancastro, Nelson	ELECTRICAL AND COMPUTER ENGINEERING	RELIABLE, FLEXIBLE PATCH FOR MONITORING HEAD INJURIES IN HIGH-CONTACT SPORTS
251	\$150,243	US DEPT OF EDUCATION	Sepulveda Alancastro, Nelson	ELECTRICAL AND COMPUTER ENGINEERING	ENABLING TALENTED STUDENTS TO SUCCESSFUL CAREERS IN AREAS OF NATIONAL NEED

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
252	\$176,573	GENERAL MOTORS CORP	Strangas, Elias	ELECTRICAL AND COMPUTER ENGINEERING	SEGMENTED STATOR ANALYSIS AND FEASIBILITY
253	\$45,846	TOYOTA MOTOR ENGINEERING & MANUFACTURING OF NORTH AMERICA INC	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	DISTRIBUTED MONITORING OF INFLATABLE STRUCTURES
254	\$234,000	RAYTHEON CO	Yoo, Sangmin	ELECTRICAL AND COMPUTER ENGINEERING	ULTRA-WIDEBAND PHASED ARRAY TRANSCEIVER IN SOI CMOS
255	\$106,924	UNIVERSITY OF MICHIGAN	Caldwell, Theodore	ENGINEERING DEAN	MICHIGAN LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION
256	\$99,837	AMER HEART ASSOC	Aguirre, Aitor	INSTITUTE FOR QUANTITATIVE HEALTH	AN ARTIFICIAL BIOLOGICAL PUMP FOR FAILING FONTAN CIRCULATION
257	\$77,015	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Purcell, Erin	INSTITUTE FOR QUANTITATIVE HEALTH	STRUCTURAL AND FUNCTIONAL PLASTICITY SURROUNDING IMPLANTED NEUROPROSTHESES
258	\$41,320	AMER ASSOC FOR CANCER RESEARCH	Smith, Bryan	INSTITUTE FOR QUANTITATIVE HEALTH	TREATMENT ENHANCEMENT VIA SPECIFIC MANIPULATION OF TUMOR IMMUNOSUPPRESSION
259	\$418,971	NATIONAL INST OF HEALTH	Spence, Dana	INSTITUTE FOR QUANTITATIVE HEALTH	A NOVEL FLUIDIC AND MEMBRANE-BASED PLATFORM FOR INHIBITING INTERCELLULAR COMMUNICATION
260	\$242,739	OREGON STATE UNIV	Benard, Andre	MECHANICAL ENGINEERING	FRESHWATER RECOVERY SYSTEM FOR HYDRAULIC FRACTURING (FRESH-FRAC) USING A THERMALLY-ACTUATED NOZZLE-DEMISTER
261	\$78,692	HAWORTH INC	Bush, Tamara	MECHANICAL ENGINEERING	HEIGHT ADJUSTABLE WORKSTATION
262	\$42,000	LG ELECTRONICS INC	Chung, Haseung	MECHANICAL ENGINEERING	MAGNETIC-FIELD ASSISTED FINISHING TECH. FOR MOLD SURFACE FINISHING, 2ND YEAR (MAF PROPOSAL)
263	\$49,998	HANON SYSTEMS USA LLC	Jaberi, Farhad	MECHANICAL ENGINEERING	DEVELOPMENT AND DESIGN OF A NEW HCP CENTRIFUGAL PUMP
264	\$50,000	NEXTENERGY	Klausner, James	MECHANICAL ENGINEERING	SCALABLE THERMOCHEMICAL OPTION FOR RENEWABLE ENERGY STORAGES (STORES)
265	\$110,000	UNIVERSITY OF KENTUCKY	Lee, Lik-Chuan	MECHANICAL ENGINEERING	MULTISCALE MODELING OF INHERITED CARDIOMYOPATHIES AND THERAPEUTIC INTERVENTIONS
266	\$1,051,256	WELLCOME TRUST	Lillehoj, Peter	MECHANICAL ENGINEERING	MOBILE PHONE-BASED SCREENING TOOLS TO ACCELERATE MALARIA ERADICATION
267	\$267,853	FORD MOTOR CO	Mueller, Norbert	MECHANICAL ENGINEERING	RSS EXPANSION CONTROLS
268	\$26,916	CARNEGIE MELLON UNIV	Pence, Thomas	MECHANICAL ENGINEERING	NEW MATHEMATICAL MODELS FOR THE LARGE STRAIN SWELLING RESPONSE OF BIOLOGICAL TISSUES: APPLICATIONS TO EDEMA, INFLAMMATION AND PREGNANCY

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
269	\$399,997	NATIONAL SCIENCE FOUNDATION	Roccabianca, Sara	MECHANICAL ENGINEERING	EFFECTS OF EXTRACELLULAR MATRIX – MYOCYTES MECHANICAL COUPLING IN THE HEART DURING HYPERTENSION
270	\$49,994	UNIVERSITY OF MICHIGAN	Schock, Harold	MECHANICAL ENGINEERING	DM-TJI IGNITION FOR HIGH-EFFICIENCY GASOLINE ENGINES
271	\$35,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Wichman, Indrek	MECHANICAL ENGINEERING	DEVELOPING THE NARROW CHANNEL APPARATUS AS A NASA STANDARD MATERIAL FLAMMABILITY TEST
COLLEGE OF HUMAN MEDICINE					
272	\$7,850	AMGEN INC	Hrinczenko, Borys	CANCER CENTER	AMGEN 20090482: A RANDOMIZED, DOUBLE-BLIND, MULTICENTER, STUDY OF DENOSUMAB COMPARED WITH ZOLEDRONIC ACID (ZOMETA) IN THE TREATMENT OF BONE DISEASE IN SUBJECTS WITH NEWLY DIAGNOSED MULTIPLE MYELOMA.
273	\$7,417	EMD SERONO INC	Hrinczenko, Borys	CANCER CENTER	EMR 100070-001: A PHASE I, OPEN-LABEL, MULTIPLE-ASCENDING DOSE TRIAL TO INVESTIGATE THE SAFETY, TOLERABILITY, PHARMACOKINETICS, BIOLOGICAL AND CLINICAL ACTIVITY OF MSB0010718C IN SUBJECTS WITH METASTA
274	\$115,877	STEPHANIE H. & DAVID A. SPINA FAMILY FOUNDATION	Custack, Amy	CHM FLINT	FLINT KIDS BAKE: A HEALTHY BAKING PROGRAM JUST FOR KIDS
275	\$40,000	STEPHANIE H. & DAVID A. SPINA FAMILY FOUNDATION	Custack, Amy	CHM FLINT	FLINT KIDS BAKE: A HEALTHY BAKING PROGRAM JUST FOR KIDS
276	\$244,717	NATIONAL INST OF MENTAL HEALTH	Debena, Maji	CHM FLINT	PEER NAVIGATION FOR INDIVIDUALS WITH SERIOUS MENTAL ILLNESS LEAVING JAIL
277	\$89,000	CHARLES STEWART MOTT FOUNDATION	Hanna-Attisha, Mona	CHM FLINT	MICHIGAN LEAD SERVICE LINE REPLACEMENT POLICY COST-BENEFIT ANALYSIS
278	\$25,000	PNC FOUNDATION	Hanna-Attisha, Mona	CHM FLINT	PPHI EARLY LITERACY PROGRAMMING
279	\$9,512	BUTLER HOSPITAL	Johnson, Jennifer	CHM FLINT	AA LINKAGE FOR ALCOHOL ABUSING WOMEN LEAVING JAIL
280	\$27,391	BROWN UNIV	Johnson, Jennifer	CHM FLINT	INTEGRATED TREATMENT ADHERENCE PROGRAM FOR BIPOLAR DISORDER AT THE TIME OF PRISON RELEASE
281	\$15,233	WAYNE STATE UNIV	Lucas, Todd	CHM FLINT	NORMATIVE MESSAGES TO PROMOTE COLORECTAL CANCER SCREENING UPTAKE AMONG AFRICAN AMERICANS
282	\$177,404	NATIONAL HEART LUNG & BLOOD INST	Neighbors, Harold	CHM FLINT	THE RESEARCH TO REDUCE DISPARITIES IN DISEASE (R2D2)
283	\$376,656	NEW YORK UNIV SCHOOL OF MEDICINE	O'Connell, Lauren	CHM FLINT	UNIVERSAL STRENGTHS-BASED PARENTING SUPPORT IN PEDIATRIC HEALTH CARE FOR FAMILIES WITH VERY YOUNG CHILDREN FOLLOWING THE FLINT WATER CRISIS

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
284	\$33,126	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Lenski, Madeleine	EPIDEMIOLOGY AND BIOSTATISTICS	ENVIRONMENT, EPIGENETICS, NEURODEVELOPMENT & HEALTH IN EXTREMELY PRETERM CHILDREN
285	\$84,596	UNIVERSITY OF FLORIDA	Li, Chenxi	EPIDEMIOLOGY AND BIOSTATISTICS	METHODS AND SOFTWARE FOR HIGH-DIMENSIONAL RISK PREDICTION RESEARCH
286	\$3,297,170	NATIONAL INST OF HEALTH	Paneth, Nigel	EPIDEMIOLOGY AND BIOSTATISTICS	PRENATAL EXPOSURES AND CHILD HEALTH OUTCOMES: A STATEWIDE STUDY
287	\$180,000	NATIONAL SCIENCE FOUNDATION	Todem, David	EPIDEMIOLOGY AND BIOSTATISTICS	SENSITIVITY ANALYSIS FOR INFORMATIVE MISSINGNESS WITH SEMIPARAMETRIC MODELS
288	\$20,173	UNIVERSITY OF ALABAMA AT BIRMINGHAM	Vazquez, Ana	EPIDEMIOLOGY AND BIOSTATISTICS	TRANSLATIONAL GENOMICS OF HYPERURICEMIA
289	\$83,333	UNIVERSITY OF WISCONSIN	de los Campos, Gustavo	EPIDEMIOLOGY AND BIOSTATISTICS	MAIZE RESILIENT TO TRANSIENT AND LONG-TERM DROUGHT
290	\$31,000	NATIONAL INST OF HEALTH	de los Campos, Gustavo	EPIDEMIOLOGY AND BIOSTATISTICS	STATISTICAL TOOLS FOR WHOLE-GENOME PREDICTION OF COMPLEX TRAITS AND DISEASES
291	\$70,002	PIG IMPROVEMENT CO	de los Campos, Gustavo	EPIDEMIOLOGY AND BIOSTATISTICS	SOFTWARE AND PIPELINES FOR GWAS AND GENOMIC PREDICTION WITH SEQUENCE DATA
292	\$248,039	NATIONAL INST OF HEALTH	Alshaarawy, Omayma	FAMILY MEDICINE, DEPARTMENT OF	USING PRE-CLINICAL BIOMARKERS AND EPIDEMIOLOGICAL MODELS TO ASSESS THE EFFECTS OF CANNABINOIDS ON DISEASE
293	\$10,000	BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION	Haque, Raza	FAMILY MEDICINE, DEPARTMENT OF	BRAIN SHARPNESS INITIATIVE: KEEPING YOUR WITS IN YOUR GOLDEN YEARS
294	\$634,657	NATIONAL INST OF HEALTH	Morishita, Masako	FAMILY MEDICINE, DEPARTMENT OF	REDUCING PARTICULATE MATTER-ASSOCIATED CARDIOVASCULAR HEALTH EFFECTS FOR SENIORS
295	\$20,000	MUNSON MEDICAL CENTER	Hirko, Kelly	HUMAN MEDICINE DEAN	DEVELOPING AN ON-DEMAND APPROACH TO MEDICATION ASSISTED TREATMENT (MAT) IN A RURAL SETTING
296	\$29,592	SHIRLEY RYAN ABILITYLAB	Kozlowski, Allan	HUMAN MEDICINE DEAN	DEFINING TRAJECTORIES OF LINGUISTIC, COGNITIVE-COMMUNICATIVE AND QUALITY OF LIFE OUTCOMES IN APHASIA
297	\$45,498	CEDARS SINAI HEALTH SYSTEM	Alessio, Adam	INSTITUTE FOR QUANTITATIVE HEALTH	INTEGRATED ANALYSIS OF CORONARY ANATOMY AND BIOLOGY USING 18F-FLUORIDE PET AND CT ANGIOGRAPHY
298	\$6,127	GLADIATOR BIOSCIENCES	Kanada, Masamitsu	INSTITUTE FOR QUANTITATIVE HEALTH	ASSESS THE DIFFERENTIAL BINDING OF ANX AND GLAS TO THE SUBTYPES OF EXTRACELLULAR VESICLES DERIVED FROM BREAST CANCER CELLS
299	\$50,000	NATIONAL SCIENCE FOUNDATION	Mahmoudi, Morteza	INSTITUTE FOR QUANTITATIVE HEALTH	MULTI-FUNCTIONAL PATCH FOR CHRONIC WOUNDS
300	\$18,386	COLUMBIA UNIV	Moore, Anna	INSTITUTE FOR QUANTITATIVE HEALTH	T CELLS TO PROMOTE MIXED CHIMERISM FOR TOLERANCE TO ISLETS AND KIDNEYS FROM DECEASED AND LIVING DONORS

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
301	\$11,550	UNIVERSITY OF MONTANA	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	MOLECULAR IMAGING OF CHEMICAL THREATS AND COUNTERMEASURE
302	\$149,533	PROTEOGENOMICS RESEARCH INST FOR SYSTEMS	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	PRECISION DELIVERY AND IMAGING TO ENHANCE SOLID TUMOR THERAPY
303	\$180,000	NATIONAL INST OF FOOD & AGRICULTURE	Bates, Ronald	MEDICINE	MICHIGAN AGRABILITY
304	\$167,929	NATIONAL INST OF HEALTH	Crockett-Torabi, Elahe	MEDICINE	RESEARCH EDUCATION PROGRAM TO INCREASE DIVERSITY IN HEALTH-RELATED RESEARCH
305	\$10,000	SPARROW FOUNDATION	Nabeel, Muhammad	MEDICINE	IMPACT OF STRUCTURED, TIMELY AND INDIVIDUALIZED PATIENT FEEDBACK ABOUT RESIDENT COMMUNICATION SKILLS ON HCAHPS IN AN ACADEMIC PROGRAM
306	\$35,000	MICHIGAN DEPT OF LICENSING & REGULATORY AFFAIRS	Oliveri, Anthony	MEDICINE	SUPPORTING MICHIGAN AGRICULTURE 2020
307	\$7,500	MILLENNIUM PHARMACEUTICALS INC	Rana, Jatin	MEDICINE	A PHASE 2/3 RANDOMIZED OPEN-LABEL STUDY COMPARING ORAL IXAZOMIB/DEXAMETHASONE AND ORAL POMALIDOMIDE/DEXAMETHASONE IN REPLAPSED AND OR REFRACTORY MULTIPLE MYELOMA
308	\$234,750	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Chandler, Ronald	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ROLE OF CHROMATIN REMODELING AND CELL SIGNALING IN ENDOMETRIOSIS ETIOLOGY
309	\$25,000	ENDOMETRIOSIS FOUNDATION OF AMERICA	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	COMBINED TRANSCRIPTOMIC ANALYSES OF ENDOMETRIOSIS ESTABLISHMENT IN THE BABOON TO IDENTIFY MOLECULAR SIGNATURES OF PERITONEAL DISEASE FOR EARLY DIAGNOSTIC SCREENING
310	\$100,000	MARY KAY FOUNDATION	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE ROLE OF CHOLESTEROL METABOLISM IN RECURRENT ENDOMETRIAL CANCER
311	\$284,226	NATIONAL INST OF HEALTH	Latham, Keith	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	REPRODUCTIVE AND DEVELOPMENTAL SCIENCES TRAINING PROGRAM - T32
312	\$92,055	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Luke, Barbara	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	IN VITRO FERTILIZATION OUTCOMES AFTER CANCER
313	\$456,293	NATIONAL INST OF HEALTH	MacKeigan, Jeffrey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	COMPUTATIONAL MODEL OF AUTOPHAGY-MEDIATED SURVIVAL IN CHEMORESISTANT LUNG CANCER
314	\$155,140	NATIONAL INST OF HEALTH	Meghea, Cristian	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ETHICAL CONSIDERATIONS RELATED TO E-CIGARETTE USE FOR PREGNANCY SMOKING CESSATION
315	\$69,814	UNIVERSITY OF CALIFORNIA SAN FRANCISCO	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	INTEGRATIVE ANALYSIS OF GENOMIC, EPIGENOMIC AND PHENOTYPIC DATA FOR DISEASESTRATIFICATION OF ENDOMETRIOSIS

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
316	\$32,741	FRED HUTCHINSON CANCER RESEARCH CENTER	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	INFLAMMATION AND THE MALIGNANT TRANSFORMATION OF ENDOMETRIOSIS TO OVARIAN CANCER
317	\$26,774	SPECTRUM HEALTH SYSTEM	Roman, Leeanne	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	RESEARCH GIFT FROM SPECTRUM HEALTH HEALTHIER COMMUNITIES - ROMAN
318	\$680,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	SERVICE ENHANCEMENT FOR OPIOID USE DISORDERS
319	\$554,975	NATIONAL INST OF HEALTH	Teixeira, Jose	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	PATIENT-SPECIFIC TARGETING OF UTERINE FIBROIDS
320	\$39,960	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Alavi, Zakia	PEDIATRICS AND HUMAN DEVELOPMENT	MICHIGAN CHILD COLLABORATIVE CARE-CONNECT (MC3-CONNECT)
321	\$453,660	NATIONAL INST OF HEALTH	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	REPURPOSE OPEN DATA TO DISCOVER THERAPEUTICS FOR UNDERSTUDIED DISEASES
322	\$29,500	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	English, Boyce	PEDIATRICS AND HUMAN DEVELOPMENT	GENETIC SERVICES
323	\$55,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	English, Boyce	PEDIATRICS AND HUMAN DEVELOPMENT	PEDIATRIC GENETICS – FEE FOR SERVICE
324	\$100,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Karna, Padmani	PEDIATRICS AND HUMAN DEVELOPMENT	VERMONT OXFORD NETWORK MI QUALITY INITIATIVE
325	\$6,186	NOVO NORDISK	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	PATHFINDER 2 NN7088-3859 A MULTI-NATIONAL TRIAL EVALUATING SAFETY AND EFFICACY, INCLUDING PHARMACOKINETICS OF NNC 0129-0000-1003 WHEN ADMINISTERED FOR TREATMENT AND PROPHYLAXIS OF BLEEDING IN PATIENT
326	\$20,000	AMER THROMBOSIS & HEMOSTASIS NETWORK	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	ATHN DATA QUALITY COUNTS 11
327	\$32,355	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Sigal, Yakov	PEDIATRICS AND HUMAN DEVELOPMENT	PEDIATRIC EPILEPSY ACCESS PROJECT
328	\$69,320	WAYNE STATE UNIV	Turner, Jane	PEDIATRICS AND HUMAN DEVELOPMENT	LEADERSHIP EDUCATION IN NEURODEVELOPMENTAL AND RELATED DISORDERS TRAINING PROGRAM
329	\$78,250	NATIONAL INST OF HEALTH	Rockwell, Cheryl	PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE	THE EFFECT OF THE SYNTHETIC FOOD ADDITIVE TBHQ ON FOOD ALLERGY IN JUVENILE ANIMALS
330	\$131,452	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Zhu, David	RADIOLOGY HUMAN MEDICINE	HYPERTENSION, INTRACRANIAL PULSATILITY AND BRAIN A ACCUMULATION IN OLDER ADULTS
331	\$180,000	UNIVERSITY OF MICHIGAN	Zhu, David	RADIOLOGY HUMAN MEDICINE	A LONGITUDINAL STUDY OF NEURAL NETWORK DEVELOPMENT IN CHILDREN WHO STUTTER

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
332	\$91,985	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Zhu, David	RADIOLOGY HUMAN MEDICINE	EXERCISE AND INTENSIVE VASCULAR RISK REDUCTION IN PREVENTING DEMENTIA
333	\$20,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	FY20 LOCAL HEALTH DEPARTMENT REGIONAL EDUCATION SEMINARS
334	\$200,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	FY20 MICHIGAN COLLABORATIVE FOR CONTRACEPTIVE ACCESS
335	\$44,852	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	ADULT MEDICAID QUALITY CONTRACEPTIVES PROJECT
336	\$545,872	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	FLINT WATER EVALUATION
337	\$36,860	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	OPIOID ANALYTICS
338	\$289,300	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	QUALITY IMPROVEMENT WORK PLAN
339	\$432,538	NATIONAL INST OF HEALTH	Collier, Timothy	TRANSLATIONAL NEUROSCIENCE	NORTRIPTYLINE-MEDIATED ATTENUATION OF ALPHA- SYNUCLEIN PATHOLOGY IN PARKINSON'S DISEASE
340	\$364,250	UNIVERSITY OF ILLINOIS CHICAGO	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	TAU CONFORMATION IN TAUOPATHIES AND NEURONAL FUNCTION
341	\$15,843	RESEARCH FOUNDATION OF SUNY	Morgan, David	TRANSLATIONAL NEUROSCIENCE	TARGETING THE HEMATOPOIETIC SYSTEM: THE ROLE OF HEMATOPOIETIC GROWTH FACTORS IN RESTRICTING A-BETA ACCUMULATION IN ALZHEIMERS DISEASE
342	\$169,834	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	THE RAT PRE-FORMED ALPHA-SYNUCLEIN FIBRIL MODEL OF PARKINSON'S DISEASE
343	\$999,999	US DEPT OF DEFENSE	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	EXERCISE EFFECTS ON SYNUCLEIN AGGREGATION, NEUROINFLAMMATION AND NEURODEGENERATION
344	\$29,758	UNIVERSITY OF MICHIGAN	Vega, Irving	TRANSLATIONAL NEUROSCIENCE	TRAINING IN CLINICAL AND BASIC NEUROSCIENCES
345	\$117,549	UNIVERSITY OF MICHIGAN	Vega, Irving	TRANSLATIONAL NEUROSCIENCE	MICHIGAN CENTER FOR CONTEXTUAL FACTORS IN ALZHEIMER'S DISEASE
	COLLEGE OF MUSIC				
346	\$45,000	KRESGE FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	DETROIT ARTS SUPPORT PROJECT FOR GENERAL OPERATING COSTS
347	\$31,500	WORTHINGTON FAMILY FOUNDATION	Helton, Melanie	MUSIC	CONTINUING THE MSU OPERA THEATRE EXPERIENCE: KEEPING THE MOMENTUM
	COLLEGE OF NATURAL SCIENCE				

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
348	\$310,255	NATIONAL INST OF HEALTH	Arnosti, David	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	BIOCHEMICAL, GENOMIC AND COMPUTATIONAL ANALYSIS OF TRANSCRIPTIONAL REPRESSION
349	\$180,317	NATIONAL SCIENCE FOUNDATION	Della Penna, Dean	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	RESEARCH-PGR: A GENOME-LEVEL APPROACH TO BALANCING THE VITAMIN CONTENT OF MAIZE GRAIN
350	\$124,464	NATIONAL INST OF HEALTH	Dickson, Alexander	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	REVEALING THE LIGAND BINDING LANDSCAPE WITH ADVANCED MOLECULAR SIMULATION METHODS
351	\$257,853	NATIONAL SCIENCE FOUNDATION	Dickson, Alexander	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	KINETICS-DRIVEN DRUG DISCOVERY USING PERSISTENT HOMOLOGY, RARE-EVENT MOLECULAR DYNAMICS AND EXPERIMENTAL DATA
352	\$124,464	NATIONAL INST OF HEALTH	Feig, Michael	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	MODELING AND DYNAMICS OF BIOMOLECULES ON CELLULAR SCALES
353	\$192,232	UNIVERSITY OF NORTH TEXAS	Grotewold, Erich	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	FUNCTIONAL ANALYSIS OF CANDIDATE GENES INVOLVED IN OIL STORAGE AND STABILITY IN PENNYCRESS
354	\$150,260	BASF CORP	Hamberger, Bjoern	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	NATURAL AND PSEUDONATURAL CHEMISTRIES WITH ANTI-INSECT/ANTI-FUNGAL ACTIVITIES
355	\$164,686	US DEPT OF ENERGY	Hegg, Eric	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	DNRA: CATALYZING MULTI-ELECTRON REDUCTIONS USING A PENTAHEME SCAFFOLD
356	\$820,000	NATIONAL SCIENCE FOUNDATION	Kaguni, Jon	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	DNAA-MEDIATED LOADING OF THE DNAB-DNAC COMPLEX IN REPLICATION INITIATION IN ESCHERICHIA COLI
357	\$10,852	UNIVERSITY OF CALIFORNIA RIVERSIDE	Kaguni, Laurie	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	CHEMICAL AND MOLECULAR MECHANISMS OF MITOCHONDRIAL DNA DEGRADATION
358	\$127,593	BAYLOR COLLEGE OF MEDICINE	Mias, George	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	INTEGRATIVE PERSONALIZED OMICS PROFILING NEXT STEPS: DETECTION AND CLASSIFICATION OF DEVIATIONS FROM WELLNESS
359	\$561,335	NATIONAL INST OF HEALTH	Quinn, Robert	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	DETERMINING HOW A DYNAMIC MICROBIOME CONTRIBUTES TO CYSTIC FIBROSIS LUNG DISEASE
360	\$234,750	NATIONAL INST OF HEALTH	Zacharewski, Timothy	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	ADVANCING CHEMICAL AND DRUG SAFETY TESTING USING SINGLE-CELL RNA-SEQUENCING
361	\$211,885	US DEPT OF ENERGY	Beck, Warren	CHEMISTRY	ENERGY TRANSFER AND RADIATIONLESS DECAY IN LIGHT-HARVESTING PROTEINS
362	\$277,908	NATIONAL INST OF HEALTH	Borhan, Babak	CHEMISTRY	PROTEIN/CHROMOPHORE INTERACTIONS VIA PROTEIN DESIGN: INTERROGATION AND APPLICATION
363	\$300,000	NATIONAL INST OF HEALTH	Huang, Xuefei	CHEMISTRY	SYNTHETIC GLYCAN CONJUGATES WITH BACTERIOPHAGE QBETA FOR BROAD SPECTRUM ANTI-SALMONELLA VACCINES
364	\$375,606	NATIONAL INST OF HEALTH	Huang, Xuefei	CHEMISTRY	GENERATION OF ACTIVE IMMUNITY AGAINST CYTOTOXIC OLIGOMERIC TAU SPECIES

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
365	\$82,500	GLYCAN THERAPEUTICS	Huang, Xuefei	CHEMISTRY	SYNTHESIS OF DIVERSE HEPARAN SULFATE OLIGOSACCHARIDE LIBRARIES FOR UNDERSTANDING GLYCOSAMINOGLYCAN BIOLOGY
366	\$145,000	PRINCETON UNIV	McCusker, James	CHEMISTRY	BIOINSPIRED LIGHT-ESCALATED CHEMISTRY (BIOLEC)
367	\$319,659	NATIONAL INST OF HEALTH	Merz, Kenneth	CHEMISTRY	MODELING TRANSITION METAL ION BINDING TO PROTEINS
368	\$12,042	PHDS CO	Severin, Gregory	CHEMISTRY	NUCLEAR PHYSICS GAMMA-RAY IMAGING SYSTEM FOR REAL-TIME RARE ISOTOPE HARVESTING, MONITORING AND RADIOCHEMICAL SEPARATION – NP IMAGER
369	\$314,602	NATIONAL INST OF HEALTH	Smith, Milton	CHEMISTRY	METAL-CATALYZED C-H BORYLATION: DESIGN OF NEW CATALYSTS WITH NEW SELECTIVITIES
370	\$670,446	NATIONAL SCIENCE FOUNDATION	Sun, Liangliang	CHEMISTRY	CAREER: NANOFLOW RPLC-CZE-MS/MS: A NOVEL APPROACH FOR DEEP AND HIGHLY SENSITIVE BOTTOM-UP PROTEOMICS
371	\$15,500	HENKEL CORP	Swain, Greg	CHEMISTRY	UNDERSTANDING THE EARLY-STAGE CORROSION OF ADHESIVELY- BONDED ALUMINUM-ALUMINUM JOINTS – EFFECT OF SURFACE PRETREATMENT
372	\$369,612	NATIONAL INST OF HEALTH	Tepe, Jetze	CHEMISTRY	SMALL MOLECULE INDUCED PROTEOLYTIC DESTRUCTION OF INTRINSICALLY DISORDERED PROTEINS
373	\$67,083	UNIVERSITY OF IOWA	Bazavov, Alexei	COMPUTATIONAL MATH SCI AND ENGR CNS	FOUNDATIONS OF QUANTUM COMPUTING FOR GAUGE THEORIES AND QUANTUM GRAVITY
374	\$250,000	NATIONAL SCIENCE FOUNDATION	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	IMPLICIT MULTI-SCALE PLASMA SIMULATIONS USING LOW COST MATRIX-FREE METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS
375	\$380,650	NATIONAL INST OF HEALTH	Hirn, Matthew	COMPUTATIONAL MATH SCI AND ENGR CNS	COLLABORATIVE RESEARCH: FINDING EMERGENT STRUCTURE IN MULTI-SAMPLE BIOLOGICAL DATA WITH THE DUAL GEOMETRY OF CELLS AND FEATURES
376	\$61,610	NATIONAL INST OF HEALTH	Mancuso, Christopher	COMPUTATIONAL MATH SCI AND ENGR CNS	INCORPORATING MOLECULAR NETWORK KNOWLEDGE INTO PREDICTIVE DATA-DRIVEN MODELS
377	\$242,250	NATIONAL SCIENCE FOUNDATION	O'Shea, Brian	COMPUTATIONAL MATH SCI AND ENGR CNS	COLLABORATIVE RESEARCH: THE SPATIALLY RESOLVED CIRCUMGALACTIC MEDIUM
378	\$71,793	UNIVERSITY OF MICHIGAN	Xie, Yuying	COMPUTATIONAL MATH SCI AND ENGR CNS	DEVELOPMENT OF A PROGNOSTIC COMPOUND IMMUNOSCORE FOR HEAD AND NECK CANCER
379	\$269,999	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
380	\$250,000	UNIVERSITY OF ILLINOIS CHICAGO	Krajcik, Joseph	CREATE FOR STEM	EQUIPPING MIDDLE SCHOOL TEACHERS WITH RESOURCES TO MONITOR THE PROGRESS OF THEIR STUDENT'S SCIENCE LEARNING

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
381	\$20,000	MICHIGAN WHEAT PROGRAM	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	STRATEGIC AND TACTICAL N MANAGEMENT USING DRONE IMAGES AND CROP MODELING TO INCREASE PROTEIN CONTENT AND GRAIN QUALITY IN WHEAT YR 1
382	\$75,000	UNIVERSITY OF FLORIDA	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	FACT: AGRICULTURAL RESEARCH DATA NETWORK FOR MODELING AND ANALYTICS
383	\$15,000	MICHIGAN WHEAT PROGRAM	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	ENHANCING PHENOTYPIC TRAIT DATA COLLECTION AND ANALYSIS FOR FASTER BETTER SELECTIONS IN WHEAT BREEDING USING HIGH RESOLUTION DRONE IMAGERY YR 2
384	\$43,594	AGRICULTURAL RESEARCH SERVICE	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	IMPROVED PREDICTIONS OF POTATO EARLY-DIE DISEASE COMPLEX INTEGRATING THERMAL IMAGERY AND SOIL HEALTH INDICATORS INTO CROP SIMULATION SYSTEMS
385	\$49,835	NATIONAL SCIENCE FOUNDATION	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	WORKSHOP FOR ALASKA EARTHSOPE SYNTHESIS AND FUTURE OPPORTUNITIES IN CANADA WITH EON-ROSE
386	\$234,763	NATIONAL SCIENCE FOUNDATION	Hardisty, Dalton	EARTH AND ENVIRONMENTAL SCIENCES	COLLABORATIVE RESEARCH: MANGANESE CYCLING AND COUPLING ACROSS REDOX BOUNDARIES WITHIN STRATIFIED BASINS OF THE BALTIC SEA
387	\$39,456	MICHIGAN TECHNICAL RESEARCH INST	Hyndman, David	EARTH AND ENVIRONMENTAL SCIENCES	QUANTIFYING HOW GLOBAL CHANGE AND LAND USE LEGACIES AFFECT ECOSYSTEM PROCESSES AT THE LAND WATER INTERFACE ACROSS THE GREAT LAKES BASIN
388	\$187,599	UNIVERSITY OF MICHIGAN	Hyndman, David	EARTH AND ENVIRONMENTAL SCIENCES	USING EXISTING DATA AND MODELS DEPLOYED THROUGH TIPPING POINTS PLANNER TO SUPPORT LAMP AND COMMUNITY PLANNING DECISIONS
389	\$23,067	LOS ALAMOS NATL LABORATORY	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	FORMER SOVIET UNION SEISMOLOGICAL ASSISTANCE III
390	\$477,298	NATIONAL SCIENCE FOUNDATION	Zarnetske, Jay	EARTH AND ENVIRONMENTAL SCIENCES	COLLABORATIVE RESEARCH: CONSTRAINING FATE AND FUNCTION OF PERMAFROST NUTRIENTS WITH DIRECT MULTI-SCALE OBSERVATIONS: STREAMS NETWORKS AS INDICATORS OF WATERSHED PROCESSES
391	\$194,743	NATIONAL SCIENCE FOUNDATION	Zarnetske, Jay	EARTH AND ENVIRONMENTAL SCIENCES	CAREER: TOWARDS FORECASTING WATERSHED ORGANIC CARBON FLUXES ACROSS FLOW REGIMES AND ECOREGIONS
392	\$66,932	NATIONAL SCIENCE FOUNDATION	Cognato, Anthony	ENTOMOLOGY NATURAL SCIENCE	COLLABORATIVE RESEARCH: DIGITIZATION TCN: DIGITIZING COLLECTIONS TO TRACE PARASITE-HOST ASSOCIATIONS AND PREDICT THE SPREAD OF VECTOR-BORNE DISEASE
393	\$133,700	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Cognato, Anthony	ENTOMOLOGY NATURAL SCIENCE	MORPHOLOGICAL AND DNA DIAGNOSTIC TOOLS FOR LARVAL AND ADULT SOFTWOOD BORING BEETLES (CERAMBYCIDAE)
394	\$680,000	NATIONAL SCIENCE FOUNDATION	Gallant, Jason	INTEGRATIVE BIOLOGY	COLLABORATIVE RESEARCH: ANALYSIS OF RAPIDLY EVOLVING POTASSIUM CHANNELS IN ELECTRIC FISH
395	\$88,660	HUMAN FRONTIER SCIENCE PROGRAM	Holekamp, Kay	INTEGRATIVE BIOLOGY	COMMUNICATION AND THE COORDINATION OF COLLECTIVE BEHAVIOR ACROSS SPATIAL SCALES IN ANIMAL SOCIETIES

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
396	\$100,000	MORRIS ANIMAL FOUNDATION	Holekamp, Kay	INTEGRATIVE BIOLOGY	PASTORALIST COMMUNITIES AS A POTENTIAL SOURCE OF TOXOPLASMA GONDII INFECTION IN A WILD CARNIVORE AND EFFECTS ON HOST BEHAVIOR AND SURVIVAL
397	\$221,869	NATIONAL SCIENCE FOUNDATION	Mead, Louise	INTEGRATIVE BIOLOGY	COLLABORATIVE RESEARCH: APPLYING THE CURE MODEL TO FACILITATE MULTI-INSTITUTIONAL INVESTIGATIONS ACROSS LEVELS OF BIOLOGICAL INQUIRY USING EASTERN RED-BACKED SALAMANDERS
398	\$36,000	THE SPERRY FUND	Zipkin, Elise	INTEGRATIVE BIOLOGY	FELLOWSHIP - SAMUEL AYEBARE'S GRADUATE STUDIES AT MSU UNDER THE THE BEINECKE SCHOLARSHIP PROGRAM
399	\$19,046	DAIRY GRAZING APPRENTICESHIP	Conner, Jeffrey	KELLOGG BIOLOGICAL STATION NAT. SCI.	CREATING A DAIRY FARMING CAREER TRACK FOR MILITARY VETERANS
400	\$1,209,632	US DEPT OF ENERGY	Evans, Sarah	KELLOGG BIOLOGICAL STATION NAT. SCI.	CONNECTING NITROGEN TRANSFORMATIONS MEDIATED BY THE RHIZOSPHERE MICROBIOME TO PERENNIAL CROPPING SYSTEM PRODUCTIVITY IN MARGINAL LANDS
401	\$128,387	US FISH & WILDLIFE SERVICE	Fitzpatrick, Sarah	KELLOGG BIOLOGICAL STATION NAT. SCI.	DETERMINING EFFECTS OF INBREEDING ON EASTERN MASSASAUGA RATTLESNAKE VITAL RATES AND POPULATION GROWTH
402	\$8,770	NATIONAL GEOGRAPHIC SOCIETY	Fitzpatrick, Sarah	KELLOGG BIOLOGICAL STATION NAT. SCI.	GENOMICS OF POPULATION DECLINES, RECOVERY, AND THE FUNGAL KILLER IN ICONIC HARLEQUIN TOADS IN ECUADOR
403	\$92,964	DUKE UNIV	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT. SCI.	MANAGING METAPOPULATIONS OF THREATENED SPECIES ACROSS JURISDICTIONAL BOUNDARIES: QUANTIFYING EFFECTS OF CLIMATE CHANGE, ENVIRONMENTAL SYNCHRONY, DISPERSAL, AND CORRIDORS
404	\$82,210	NATIONAL SCIENCE FOUNDATION	Hedden, Matthew	MATHEMATICS	FLOER HOMOLOGY, CONCORDANCE, AND COMPLEX CURVES
405	\$185,000	NATIONAL SCIENCE FOUNDATION	Nelson, Brent	MATHEMATICS	NON-TRACIAL DERIVATIONS AND DISTRIBUTIONS
406	\$84,891	NATIONAL SCIENCE FOUNDATION	Turanova, Olga	MATHEMATICS	NONLINEAR AND NONLOCAL PARTIAL DIFFERENTIAL EQUATIONS
407	\$8,400	SIMONS FOUNDATION	Uriarte-Tuero, Ignacio	MATHEMATICS	PROBLEMS IN THE INTERFACE OF HARMONIC AND COMPLEX ANALYSIS AND GEOMETRIC MEASURE THEORY
408	\$50,389	NATIONAL SCIENCE FOUNDATION	Wake, Preston	MATHEMATICS	EXPLICIT GALOIS DEFORMATION THEORY, MODULAR FORMS, AND IWASAWA THEORY
409	\$939,547	NATIONAL SCIENCE FOUNDATION	Wei, Guowei	MATHEMATICS	III: MEDIUM: DE RHAM-HODGE THEORY MODELING AND LEARNING OF BIOMOLECULAR DATA
410	\$196,523	UNIVERSITY OF CHICAGO	Crosson, Sean	MICROBIOLOGY & MOLECULAR GENETICS CNS	HOST AND MICROBIAL BASIS OF HUMAN ULCERATIVE COLITIS AND POUCHITIS: IDENTIFICATION, ROLE, MECHANISMS, AND RESOURCE DEVELOPMENT OF HOST SUSCEPTIBILITY AND PATHOBIONT FACTORS

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
411	\$124,366	VANDERBILT UNIV	Manning, Shannon	MICROBIOLOGY & MOLECULAR GENETICS CNS	THE ROLE OF MACROPHAGES IN CHORIOAMNIONITIS AND GROUP B STREPTOCOCCAL INFECTIONS
412	\$101,301	VANDERBILT UNIV MEDICAL CENTER	Manning, Shannon	MICROBIOLOGY & MOLECULAR GENETICS CNS	DETERMINING THE CONTRIBUTION OF ZINC DEFICIENCY TO PERINATAL GROUP B STREPTOCOCCUS INFECTIONS
413	\$111,083	NATIONAL SCIENCE FOUNDATION	Martinez Gomez, Norma	MICROBIOLOGY & MOLECULAR GENETICS CNS	CAREER: UNCOVERING RARE EARTH ELEMENTS BIOCHEMISTRY: FROM ENZYMES TO ECOSYSTEMS
414	\$397,413	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY & MOLECULAR GENETICS CNS	FROM STRUCTURE TO SYSTEMS: UNDERSTANDING CYCLIC DIGMP CONTROL OF TRANSCRIPTION
415	\$30,000	VIRGINIA COMMONWEALTH UNIV	Reimers, Mark	NEUROSCIENCE PROGRAM	THE NATURE OF MOLECULAR RISK VARIANTS FOR PSYCHIATRIC AND PSYCHOLOGICAL PHENOTYPES: COHERENCE, EMERGENCE AND LEVELS OF EXPLANATION
416	\$75,100	NORTHROP GRUMMAN CORP	Birge, Norman	PHYSICS-ASTRONOMY	NORTHROP GRUMMAN CORPORATION COLD LOGIC PROGRAM: 2013 NCTA GRENDEL PROGRAM
417	\$395,515	STONY BROOK UNIVERSITY	Brock, Raymond	PHYSICS-ASTRONOMY	US ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER
418	\$244,378	NATIONAL SCIENCE FOUNDATION	Caballero, Danny	PHYSICS-ASTRONOMY	COLLABORATIVE RESEARCH: ASSESSMENT OF STUDENT UNDERSTANDING OF MEASUREMENT AND UNCERTAINTY IN EXPERIMENTAL PHYSICS
419	\$341,588	NATIONAL SCIENCE FOUNDATION	Chomiuk, Laura	PHYSICS-ASTRONOMY	THE PROGENITORS OF TYPE IA SUPERNOVAE: NEW INSIGHTS FROM RADIO OBSERVATIONS
420	\$79,000	OAK RIDGE NATIONAL LABORATORY	Couch, Sean	PHYSICS-ASTRONOMY	EXASTAR: MULTI-PHYSICS STELLAR ASTROPHYSICS SIMULATIONS AT THE EXASCALE
421	\$150,138	NATIONAL SCIENCE FOUNDATION	Couch, Sean	PHYSICS-ASTRONOMY	COLLABORATIVE RESEARCH: EXTREME-SCALE READY HIGH-ORDER METHODS FOR ASTROPHYSICAL AND LABORATORY TURBULENCE
422	\$144,333	UNIVERSITY OF WISCONSIN MADISON	DeYoung, Tyce	PHYSICS-ASTRONOMY	ICECUBE GEN@ PHASE: AN ICECUBE EXTENSION FOR PREVISION NEUTRINO PHYSICS AND ASTROPHYSICS - CONTRUCTION UPGRADE
423	\$41,987	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Donahue, Megan	PHYSICS-ASTRONOMY	THE XMM-NEWTON HERITAGE PROGRAM: "WITNESSING THE CULMINATION OF STRUCTURE FORMATION IN THE UNIVERSE"
424	\$88,713	PRINCETON UNIV	Dykman, Mark	PHYSICS-ASTRONOMY	MATERIALS FOR ULTRA-COHERENT, MOBILE, ELECTRON-SPIN QUBITS
425	\$510,000	UNIVERSITY OF WISCONSIN MADISON	Grant, Darren	PHYSICS-ASTRONOMY	WOU-MMA: ICECUBE DATA ANALYSIS IN THE U.S.
426	\$200,000	US DEPT OF ENERGY	Mahn, Kendall	PHYSICS-ASTRONOMY	IMPROVED NEUTRINO OSCILLATION MEASUREMENTS USING MULTIPLE NEUTRINO ENERGY SPECTRA

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
427	\$50,000	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	O'Shea, Brian	PHYSICS-ASTRONOMY	MAGNETOHYDRODYNAMIC SIMULATIONS OF GALAXIES FOR NEXT GENERATION SUPERCOMPUTERS
428	\$37,078	BROOKHAVEN NATIONAL LABORATORY	Schwienhorst, Reinhard	PHYSICS-ASTRONOMY	THE UPGRADE CONSTRUCTION PROJECT (FOX INSTALLATION AND COMMISSIONING) FOR WBS 1.3.3 TDAQ
429	\$59,999	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Strader, Jay	PHYSICS-ASTRONOMY	COMPARING EMISSION MECHANISMS OF LOW-FREQUENCY QPOS IN BLACK HOLES AND NEUTRON STARS
430	\$22,641	SPACE TELESCOPE SCIENCE INST	Strader, Jay	PHYSICS-ASTRONOMY	DEFINITIVE DETECTION OF FAILED SUPERNOVAE
431	\$100,000	NATIONAL SCIENCE FOUNDATION	Tessmer, Stuart	PHYSICS-ASTRONOMY	REU SITE: RESEARCH EXPERIENCES FOR UNDERGRADUATES IN PHYSICS
432	\$618,355	NATIONAL SCIENCE FOUNDATION	Tollefson, Kirsten	PHYSICS-ASTRONOMY	WOU-MMA: MULTI-MESSENGER AND MULTI-WAVELENGTH PARTICLE ASTROPHYSICS WITH HAWC.
433	\$406,120	NATIONAL INST OF HEALTH	Busik, Julia	PHYSIOLOGY NATURAL SCIENCE	ANTI-CERAMIDE IMMUNOTHERAPY FOR DIABETIC RETINOPATHY
434	\$72,885	NATIONAL INST OF HEALTH	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	ROLE OF ENTERIC GLIA IN THE DEATH OF NEURONS DURING GUT INFLAMMATION
435	\$116,507	UNIVERSITY OF TEXAS MEDICAL BRANCH	Robison, Alfred	PHYSIOLOGY NATURAL SCIENCE	SMALL MOLECULE MODULATORS OF ΔFOSB FUNCTION
436	\$90,801	BAYLOR COLLEGE OF MEDICINE	Robison, Alfred	PHYSIOLOGY NATURAL SCIENCE	ROLE OF DELTAFOSB IN HIPPOCAMPAL GENE EXPRESSION AND FUNCTION IN NEUROLOGICAL DISEASE
437	\$552,688	NATIONAL INST OF HEALTH	Wang, Hongbing	PHYSIOLOGY NATURAL SCIENCE	MECHANISM UNDERLYING COGNITIVE AND SYNAPTIC FLEXIBILITY
438	\$24,438	UNIVERSITY OF MICHIGAN	Weber, Arthur	PHYSIOLOGY NATURAL SCIENCE	VARIABLE INDUCTOR-BASED PASSIVE IOP SENSOR
439	\$2,589,818	NATIONAL SCIENCE FOUNDATION	Buell, CRobin	PLANT BIOLOGY CNS	RESEARCH-PGR: MULTIPLE ORIGINS OF TUBER FORMATION: EVOLUTION OF A UNIQUE STORAGE ORGAN
440	\$277,891	UNIVERSITY OF GEORGIA	Jiang, Jiming	PLANT BIOLOGY CNS	FUNCTIONAL GENOMICS OF MAIZE CENTROMERES
441	\$518,873	UNIVERSITY OF MINNESOTA	Josephs, Emily	PLANT BIOLOGY CNS	RESEARCH-PGR: UNCOVERING THE ROLE OF TRANSPOSONS IN MAIZE VARIATION
442	\$181,348	US DEPT OF ENERGY	Osteryoung, Katherine	PLANT BIOLOGY CNS	CONTROL OF CHLOROPLAST MORPHOLOGY IN PLANTS: MECHANISMS AND PHYSIOLOGICAL SIGNIFICANCE
443	\$257,300	YALE UNIV	Trail, Frances	PLANT BIOLOGY CNS	EVOLUTIONARY MULTISPECIES TRANSCRIPTOMICS TO REVEAL GENES THAT GOVERN FUNGAL SPORE GERMINATION AND PATHOGENESIS
444	\$712,698	NATIONAL SCIENCE FOUNDATION	Kerfeld, Cheryl	PLANT RESEARCH LABORATORY NAT SCIENCE	COLLABORATIVE RESEARCH: PROTEOCELL: THE FAT-FREE CELL

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
445	\$248,556	US DEPT OF ENERGY	Kramer, David	PLANT RESEARCH LABORATORY NAT SCIENCE	THE DYNAMIC ENERGY BUDGET OF PHOTOSYNTHESIS
446	\$293,385	NATIONAL SCIENCE FOUNDATION	Burrill, Gail	PROGRAM IN MATHEMATICS EDUCATION	FOURTEENTH INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION (ICME14) TRAVEL GRANT
447	\$385,303	NATIONAL SCIENCE FOUNDATION	Phillips, Elizabeth	PROGRAM IN MATHEMATICS EDUCATION	COLLABORATIVE RESEARCH: ENHANCING MIDDLE GRADES STUDENTS' CAPACITY TO DEVELOP AND COMMUNICATE THEIR MATHEMATICAL UNDERSTANDING OF BIG IDEAS USING DIGITAL INSCRIPTIONAL RESOURCES
448	\$55,403	NATIONAL SCIENCE FOUNDATION	Hong, Hyokyoun	STATISTICS & PROBABILITY	IMPACT OF MOLECULAR BIOMARKERS ON SURVIVAL OUTCOMES: SIGNAL DETECTION, MODEL SELECTION, AND STATISTICAL INFERENCE IN HIGH-DIMENSIONAL SETTINGS
449	\$16,000	NATIONAL SCIENCE FOUNDATION	Maiti, Tapabrata	STATISTICS & PROBABILITY	SUPPLEMENT TO ATD: ATD NEXT GENERATION STATISTICAL LEARNING THEORY AND METHODS FOR MULTIMODAL SPATIO-TEMPORAL DATA WITH APPLICATION TO COMPUTER VISION
450	\$41,596	RICE UNIV	Viens, Frederi	STATISTICS & PROBABILITY	EXACT AND ASYMPTOTIC DISTRIBUTION THEORY FOR GENERAL GAUSSIAN PROCESSES
COLLEGE OF NURSING					
451	\$234,750	NATIONAL INST OF NURSING RESEARCH	Ling, Jiying	NURSING	USING FACEBOOK AND PARTICIPATORY LEARNING IN AN INTERGENERATIONAL INTERVENTION TO PREVENT OBESITY IN HEAD START PRESCHOOLERS
COLLEGE OF OSTEOPATHIC MEDICINE					
452	\$25,000	TIDES	Luz, Clare	FAMILY AND COMMUNITY MEDICINE	EWA RETOOLING DATA UPDATE
453	\$63,655	EISAI INC	Bozoki, Andrea	NEUROLOGY AND OPHTHALMOLOGY COM	EISAI BAN2401-G000-201 OPEN LABEL EXTENSION
454	\$17,451	AVANIR PHARMACEUTICALS INC	Bozoki, Andrea	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO ASSESS THE EFFICACY, SAFETY AND TOLERABILITY OF AVP-786 AND A PHASE 3 MULTICENTER, LONG-TERM, EXTENSION STUDY OF THE SAFET
455	\$88,713	UNIVERSITY OF CALIFORNIA SAN DIEGO	Bozoki, Andrea	NEUROLOGY AND OPHTHALMOLOGY COM	A SEAMLESS PHASE 2A-B RANDOMIZED DOUBLE-BLIND PLACEBO-CONTROLLED TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF BHV-4157 IN PATIENTS WITH MILD TO MODERATE ALZHEIMER'S DISEASE
456	\$6,929	EISAI INC	Burghardt, Tyson	NEUROLOGY AND OPHTHALMOLOGY COM	MULTICENTER, OPEN-LABEL STUDY TO EVALUATE THE EFFICACY AND SAFETY OF PERAMPANEL AS MONOTHERAPY OR 1ST ADJUNCTIVE THERAPY IN SUBJECTS WITH POS W OR WO SECONDARILY GENERALIZED SZ OR PGTC SZ

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
457	\$11,308	REVANCE THERAPEUTICS INC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL GROUP, MULTI-CENTER TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF A SINGLE TREATMENT OF DAXIBOTULINIUMTOXINA FOR INJECTION IN ADULTS WIT
458	\$22,620	REVANCE THERAPEUTICS INC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, OPEN-LABEL, MULTI-CENTER TRIAL TO EVALUATE THE LONG-TERM SAFETY AND EFFICACY OF REPEAT TREATMENTS OF DAXIBOTULINIUMTOXINA FOR INJECTION IN ADULTS WITH ISOLATED CERVICAL DYSTONIA (ASPEN-OLS)
459	\$50,000	AMER ASSOC OF NEUROMUSCULAR & ELECTRODIAGNOSTIC MEDICINE FOUNDATION FOR RESEARCH & EDUCATION	Kvalsund, Michelle	NEUROLOGY AND OPHTHALMOLOGY COM	PREVALENCE AND SPECTRUM OF ADULT ACUTE FLACCID PARALYSIS IN ZAMBIA
460	\$189,437	UNIVERSITY OF CALIFORNIA SAN DIEGO	Sidiropoulos, Christos	NEUROLOGY AND OPHTHALMOLOGY COM	A SEAMLESS PHASE 2A-B RANDOMIZED DOUBLE-BLIND PLACEBO-CONTROLLED TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF BHV-4157 IN PATIENTS WITH MILD TO MODERATE ALZHEIMER'S DISEASE
461	\$27,810	BIOGEN INC	Yassin-Kassab, Mounzer	NEUROLOGY AND OPHTHALMOLOGY COM	A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PHASE 2 STUDY EXPLORING THE EFFICACY, SAFETY, AND TOLERABILITY OF NATALIZUMAB (BG00002) AS ADJUNCTIVE THERAPY IN ADULT SUBJECTS WITH DRUG-RESISTANT FOCA
462	\$24,405	UNIVERSITY OF ROCHESTER	Seydel, Karl	OSTEOPATHIC MEDICAL SPECIALTIES COM	AGGRESSIVE ANTIPYRETICS IN CNS MALARIA: A RANDOMIZED-CONTROLLED TRIAL ASSESSING ANTIPYRETIC EFFICACY AND PARASITE CLEARANCE
463	\$40,000	BRAIN ANEURYSM FOUNDATION	Dorrance, Anne	PHARMACOLOGY TOXICOLOGY	THE ROLE OF HDAC9 AND ESTROGEN IN INTRACRANIAL ANEURYSM FORMATION
464	\$250,000	BREAST CANCER RESEARCH FOUNDATION	Liby, Karen	PHARMACOLOGY TOXICOLOGY	CHEMOPREVENTION OF EXPERIMENTAL ESTROGEN RECEPTOR-NEGATIVE BREAST CANCER
465	\$45,016	NATIONAL INST OF HEALTH	Misek, Sean	PHARMACOLOGY TOXICOLOGY	TARGETING SOX10-LOW CELLS IN DRUG-RESISTANT MELANOMA
466	\$156,253	NATIONAL INST DIABETES & DIGESTIVE & KIDNEY DISEASES	Tykocki, Nathan	PHARMACOLOGY TOXICOLOGY	BLADDER BLOOD FLOW AND VASCULAR CONTRACTILITY REGULATE BLADDER FUNCTION
467	\$46,516	NATIONAL CANCER INST	Zhang, Di	PHARMACOLOGY TOXICOLOGY	TARGETING THE NRF2 PATHWAY IN CANCER
468	\$102,747	OREGON HEALTH SCIENCES UNIV	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	TOXICODIETARY AND GENETIC DETERMINANTS OF SUSCEPTIBILITY TO NEURODEGENERATION
469	\$20,724	UNIVERSITY OF NORTH CAROLINA	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	UNDERSTANDING MATERNAL-FETAL ZIKA VIRUS TRANSMISSION AND ITS COMPLICATIONS IN NICARAGUA

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
470	\$16,830	GRAND VALLEY STATE UNIV	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	STATEWIDE IMPLEMENTATION OF CAPABLE-COMMUNITY AGING IN PLACE, ADVANCING BETTER LIVING FOR ELDERLY IN THE MICHIGAN MEDICAID HOME AND COMMUNITY BASED WAIVER PROGRAM.
COLLEGE OF SOCIAL SCIENCE					
471	\$846,510	NATIONAL INST OF JUSTICE	Rojek, Jeffrey	CNTR ANTI COUNTERFEIT AND PROD PROTECT	ASSESSMENT OF COGNITIVE PERFORMANCE-BASED TRAINING TO IMPROVE POLICE DECISION-MAKING
472	\$9,608	GRIFFITH UNIVERSITY	Holt, Thomas	CRIMINAL JUSTICE	BOOSTING CRIME PREVENTION AND CRIME DETECTION CAPABILITIES OF ONLINE INVESTIGATORS: A SCRIPT ANALYSIS OF CREATION AND DISTRIBUTION OF CHILD EXPLOITATION MATERIAL
473	\$248,071	ARIZONA STATE UNIV	Holt, Thomas	CRIMINAL JUSTICE	EXAMINING IDEOLOGICALLY-MOTIVATED CYBERATTACKS TO BETTER SECURE CYBER CRITICAL INFRASTRUCTURE FROM COMPROMISE
474	\$199,973	GEORGE MASON UNIV	Holt, Thomas	CRIMINAL JUSTICE	UNDERSTANDING THE ECONOMY AND SOCIAL ORGANIZATION FOR THE UNDERGROUND MARKET FOR CYBERCRIME AS A SERVICE
475	\$49,997	BLACK FAMILY DEVELOPMENT INC	Krupa, Julie	CRIMINAL JUSTICE	DETROIT CEASEFIRE - RESEARCH PARTNER
476	\$52,978	UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO	Maxwell, Christopher	CRIMINAL JUSTICE	DAILY DYNAMICS AND LONG-TERM PATTERNS OF ELDER ABUSE AND NEGLECT IN DEMENTIA FAMILY CAREGIVING
477	\$103,343	BLACK FAMILY DEVELOPMENT INC	McGarrell, Edmund	CRIMINAL JUSTICE	PROJECT SAFE NEIGHBORHOODS - RESEARCH PARTNER
478	\$72,587	WAYNE COUNTY PROSECUTOR'S OFFICE	McGarrell, Edmund	CRIMINAL JUSTICE	INNOVATIVE PROSECUTION SOLUTIONS: RESEARCH PARTNER
479	\$13,444	UNIVERSITY OF MICHIGAN	Zeoli, April	CRIMINAL JUSTICE	BUILDING RESEARCH CAPACITY FOR FIREARM AMONG CHILDREN
480	\$529,460	US DEPT OF STATE	Wright, Wynne	CTR FOR ADV STUDY OF INTL DEVELOPM CSS	ADVANCING YOUNG WOMEN AGRIBUSINESS ENTREPRENEURS AND INNOVATORS: A KENYA - TANZANIA - UGANDA - US PARTNERSHIP
481	\$5,019	MICHIGAN STATE HORTICULTURAL SOCIETY	Andresen, Jeffrey	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	THE EFFECT OF MICROCLIMATES ON INSECT AND DISEASE DEVELOPMENT IN APPLE ORCHARDS
482	\$47,458	SYNOPTIC DATA CORP	Andresen, Jeffrey	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	NATIONAL MESONET PROGRAM FOR MSU ENVIROWEATHER EFFORT
483	\$300,000	NATIONAL SCIENCE FOUNDATION	Bunting, Erin	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	COPE EAGER: DEVELOPMENT OF A DRONE-BASED COASTAL CHANGE MONITORING PROGRAM THROUGH CITIZEN SCIENCE PARTNERSHIP AND CAPACITY BUILDING

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
484	\$50,759	UNIVERSITY OF ALABAMA	Bunting, Erin	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	SPATIOTEMPORAL DYNAMICS OF HEAT WAVES ACROSS THE UNITED STATES
485	\$17,994	NATIONAL SCIENCE FOUNDATION	Dahlin, Kyla	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	DOCTORAL DISSERTATION RESEARCH: REGIONAL ECOGEOGRAPHICAL IMPACTS OF LARGE HERBIVORES ON SAVANNA ECOSYSTEMS
486	\$117,999	NATIONAL SCIENCE FOUNDATION	Moran, Emilio	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	FOOD SECURITY AND LAND USE: THE TELECOUPLING CHALLENGE
487	\$237,072	NATIONAL SCIENCE FOUNDATION	Theuerkauf, Ethan	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	COLLABORATIVE RESEARCH: SEDIMENT TRANSPORT MECHANISMS AND GEOMORPHIC PROCESSES ASSOCIATED WITH SHORE ICE ALONG COLD CLIMATE COASTLINES
488	\$178,830	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Chen, Jiquan	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	SOCIOECOLOGICAL CARBON PRODUCTION IN MANAGED AGRICULTURAL-FOREST LANDSCAPES
489	\$108,119	UNIVERSITY OF MICHIGAN	Dietz, Thomas	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	GREAT LAKES REGIONAL INTEGRATED SCIENCES AND ASSESSMENTS CENTER (GLISA)
490	\$34,388	TETRA TECH INC	McConnell, William	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	MADAGASCAR WOODFUELS FIELD TEAM LEADED FOR WOODFUELS CASE STUDY
491	\$636,112	NATIONAL INST OF HEALTH	Pearson, Amber	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	IMPACT OF ECOLOGICAL PARK RESTORATION ON HEALTH IN LOW INCOME NEIGHBORHOODS: A NATURAL EXPERIMENT
492	\$216,474	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Qi, Jiaguo	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	QUANTIFYING HUMAN AND CLIMATE IMPACTS ON WETLAND ECOSYSTEMS IN THE LOWER MEKONG RIVER BASIN
493	\$417,986	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	AFRICA BURNED AREA PRODUCT GENERATION, QUALITY ASSESSMENT AND VALIDATION - DEMONSTRATING A MULTI-SOURCE LAND IMAGING (MUSLI) LANDSAT-8 SENTINEL-2 CAPABILITY
494	\$44,997	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	INTEGRATING AIRBORNE LIDAR, LANDSAT 8 AND SENTINEL-2 DATA TO MAP BRAZILIAN AMAZON TROPICAL MOIST FOREST BIOME (BATMFB) CANOPY HEIGHT
495	\$245,814	US GEOLOGICAL SURVEY	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	PATHFINDING NEAR REAL TIME MODERATE RESOLUTION LAND SURFACE MONITORING, LOOKING FORWARD TO AN OPERATIONAL LANDSAT 9/10 SENTINEL 2A/2B ERA
496	\$166,078	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	GLOBAL LONG-TERM MULTI-SENSOR WEB-ENABLED LANDSAT DATA RECORD - A CONTINUATION REQUEST
497	\$337,347	INST OF EDUCATION SCIENCES	Douglas, Sarah	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	ONLINE TRAINING FOR PARAEDUCATORS TO IMPROVE COMMUNICATION SUPPORTS FOR YOUNG CHILDREN WITH COMPLEX COMMUNICATION NEEDS
498	\$60,171	INGHAM INTERMEDIATE SCHOOL DISTRICT	Linscott, Laurie	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	INGHAM GREAT START READINESS PROGRAM

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
499	\$129,288	WAYNE STATE UNIV	Vallotton, Claire	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	RECOGNIZING, REFLECTING, AND RESPONDING TO INFANT/TODDLER CUES: AN INTEGRATED PARENT-TEACHER INTERVENTION TO SUPPORT SOCIAL-EMOTIONAL DEVELOPMENT THROUGH CAREGIVER MINDFULNESS AND SENSITIVITY
500	\$267,382	GHANA CENTER FOR DEMOCRATIC DEVELOPMENT	Logan, Carolyn	POLITICAL SCIENCE	AFROBAROMETER ROUND 8 AND 9, MSU
501	\$170,000	CHARLES KOCH FOUNDATION	Sebell, Dustin	POLITICAL SCIENCE	SPEAKER SERIES AND UNDERGRADUATE READING GROUPS
502	\$80,609	CRIM FITNESS FOUNDATION	Acevedo, Ignacio	PSYCHOLOGY SOCIAL SCIENCE	FLINT COMMUNITY EDUCATION EVALUATION 2019
503	\$399,997	NATIONAL SCIENCE FOUNDATION	Adams, Adrienne	PSYCHOLOGY SOCIAL SCIENCE	DEBT AS A CONTROL TACTIC IN ABUSIVE MARRIAGES: ITS CHARACTERISTICS, LEGAL REMEDIES, AND EFFECTS
504	\$77,500	NATIONAL INST OF HEALTH	Bogat, G	PSYCHOLOGY SOCIAL SCIENCE	INTIMATE PARTNER VIOLENCE AND EARLY MOTHER-CHILD BONDING
505	\$729,185	NATIONAL INST OF HEALTH	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	MECHANISMS UNDERLYING RESILIENCE TO NEIGHBORHOOD DISADVANTAGE
506	\$244,125	NATIONAL INST OF HEALTH	Clark Verhulst, Shaunna	PSYCHOLOGY SOCIAL SCIENCE	DIAGNOSTIC AND PROGNOSTIC METHYLATION BIOMARKERS FOR ALCOHOL AND RELATED HEALTH RISKS.
507	\$280,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Foster-Fishman, Pennie	PSYCHOLOGY SOCIAL SCIENCE	STATE INNOVATION MODEL CHIR TRAINING AND SUPPORT
508	\$270,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Foster-Fishman, Pennie	PSYCHOLOGY SOCIAL SCIENCE	STATE INNOVATION MODEL EVALUATION CHIR POPULATION HEALTH
509	\$93,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Foster-Fishman, Pennie	PSYCHOLOGY SOCIAL SCIENCE	STATE INNOVATION MODEL - HOMELESS RESPONSE SYSTEM IMPROVEMENT EVALUATION
510	\$700,000	W K KELLOGG FOUNDATION	Foster-Fishman, Pennie	PSYCHOLOGY SOCIAL SCIENCE	BC PULSE CONTINUED WORK
511	\$386,881	NATIONAL SCIENCE FOUNDATION	Healey, Karl	PSYCHOLOGY SOCIAL SCIENCE	COMPCOG: THE ROLE OF CONTROL PROCESSES IN THE DYNAMICS OF EPISODIC MEMORY SEARCH
512	\$43,102	NATIONAL INST OF HEALTH	Klump, Kelly	PSYCHOLOGY SOCIAL SCIENCE	A TWIN STUDY OF EXOGENOUS HORMONE EXPOSURE AND RISK FOR BINGE EATING
513	\$10,184	NATIONAL SCIENCE FOUNDATION	McAuley, J	PSYCHOLOGY SOCIAL SCIENCE	THE ROLE OF NARRATIVE IN MUSIC PERCEPTION
514	\$122,453	NATIONAL SCIENCE FOUNDATION	Nye, Christopher	PSYCHOLOGY SOCIAL SCIENCE	EXAMINING THE EFFECTS OF WORK ON PERSONALITY TRAIT CHANGE IN YOUNG ADULTHOOD
515	\$334,925	MICHIGAN PUBLIC HEALTH INST	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	MICHIGAN VICTIM ADVOCACY NETWORK

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
516	\$418,809	MICHIGAN PUBLIC HEALTH INST	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	TRAINING AND TECHNICAL ASSISTANCE FOR VOCA GRANTEES
517	\$45,000	FORD FOUNDATION	Veenema, Alexa	PSYCHOLOGY SOCIAL SCIENCE	SEX-SPECIFIC REGULATION OF ADOLESCENT SOCIAL BEHAVIOR BY OXYTOCIN
518	\$234,486	INST OF INTL EDUCATION	Green, Ashley	SOCIAL SCIENCE DEAN	H. HUBERT HUMPHREY FELLOWSHIP PROGRAM
519	\$7,215	TRI COUNTY OFFICE ON AGING	Brock, Michele	SOCIAL WORK	KINSHIP CARE
520	\$427,658	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Brock, Michele	SOCIAL WORK	KINSHIP SUPPORT PROGRAM
521	\$25,179	MICHIGAN DISABILITIES RIGHTS COALITION	Brock, Michele	SOCIAL WORK	YOUTH ENGAGED IN LEADING AND LEARNING
522	\$267,960	NATIONAL INST OF HEALTH	Liu, Hui	SOCIOLOGY SOCIAL SCIENCE	MARRIAGE, COGNITIVE TRAJECTORIES AND ADOLD RISK IN LATE LIFE
ASC PROVOST FOR UNDERGRADUATE EDUCATION					
523	\$279,996	MICHIGAN ECONOMIC DEVELOPMENT CORP	Bellamy, Pamela	ADMIN SUPPORT MLK INITIATIVE	COLLEGE DAY PROGRAM/GEARUP SUPPLEMENTAL FUNDS
524	\$474,941	US DEPT OF EDUCATION	Garcia, Luis	MIGRANT STUDENT SERVICES	MICHIGAN STATE UNIVERSITY HEP (HIGH SCHOOL EQUIVALENCY PROGRAM)
COLLEGE OF VETERINARY MEDICINE					
525	\$6,000	WASHINGTON STATE UNIV	Carr, Elizabeth	LARGE ANIMAL CLINICAL SCIENCES	THE EFFECT OF ACUPUNCTURE ON POST-OPERATIVE ILEUS IN HORSES
526	\$158,000	BINATIONAL AGRICULTURAL RESEARCH & DEVELOPMENT FUND	Contreras, Andres	LARGE ANIMAL CLINICAL SCIENCES	THE ROLE OF THE ENDOCANNABINOID SYSTEM IN REGULATING ADIPOSE TISSUE LIPOLYSIS AND REMODELING IN POSTPARTUM DAIRY COWS
527	\$315,000	ROBERT WOOD JOHNSON FOUNDATION	Hopfensperger, Marie	LARGE ANIMAL CLINICAL SCIENCES	HUMAN ANIMAL INTERVENTIONS FOR SURVIVORS OF SEXUAL ASSAULT ON THE CAMPUS OF MICHIGAN STATE UNIVERSITY: A ONE WELFARE APPROACH
528	\$269,953	US DEPT OF AGRICULTURE	Kaneene, John	LARGE ANIMAL CLINICAL SCIENCES	2019 FACULTY EXCHANGE PROGRAM
529	\$58,706	ZOETIS	Moeser, Adam	LARGE ANIMAL CLINICAL SCIENCES	ANTI-INFLAMMATORY EFFECTS ON INTESTINAL FUNCTION IN WEANED SWINE
530	\$454,657	NATIONAL INST OF HEALTH	Moeser, Adam	LARGE ANIMAL CLINICAL SCIENCES	NEURO-IMMUNE MECHANISMS IN EARLY LIFE STRESS-INDUCED GASTROINTESTINAL DISEASE
531	\$9,900	AMER COLLEGE OF VETERINARY INTERNAL MEDICINE FOUNDATION	Schott, Harold	LARGE ANIMAL CLINICAL SCIENCES	PITUITARY PARS INTERMEDIA DYSFUNCTION (PPID): IS ABNORMAL PROTEIN ACCUMULATION ASSOCIATED WITH DEGENERATION OF HYPOTHALAMIC DOPAMINERGIC NEURONS?

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
532	\$236,255	ELANCO ANIMAL HEALTH	Sordillo-Gandy, Lorraine	LARGE ANIMAL CLINICAL SCIENCES	ELANCO COLLABORATION PRODUCT TESTING: IMRESTOR IN THE DRY COW
533	\$78,000	ORGANIC TRADE ASSOC	Spink, John	LARGE ANIMAL CLINICAL SCIENCES	OTA - TRAINING MATERIALS DEVELOPMENT- ORGANIC FRAUD PREVENTION PRACTICES
534	\$182,846	UNIVERSITY OF NEW MEXICO	Harkema, Jack	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	INHALATION OF CONTAMINATED MINE WASTE DUSTS AS A ROUTE FOR SYSTEMIC METAL TOXICITY
535	\$427,081	NATIONAL INST OF HEALTH	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	NOVEL DETERMINANTS OF FIBRINOGEN PRO-REPAIR ACTIVITY IN ACETAMINOPHEN-INDUCED LIVER TOXICITY
536	\$24,795	NATIONAL INST OF HEALTH	Meek, Katheryn	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	DEFINING RELEVANT TARGETS OF THE DNA DEPENDENT PROTEIN KINASE.
537	\$798,500	AO FOUNDATION	Dejardin, Loic	SMALL ANIMAL CLINICAL SCIENCES	DEVELOPMENT AND VALIDATION OF A ROBOTIC SYSTEM FOR SACROILIAC LUXATION/FRACTURE REDUCTION AND FIXATION
538	\$9,993	MICHIGAN ANIMAL HEALTH FOUNDATION	Langlois, Daniel	SMALL ANIMAL CLINICAL SCIENCES	COPPER CHELATION AS A NOVEL TREATMENT FOR TRANSITIONAL CELL CARCINOMA IN DOGS
539	\$233,309	BIOTIME INC	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	RETINAL TISSUE DERIVED FROM HUMAN PLURIPOTENT STEM CELLS FOR VISION RESTORATION
540	\$427,698	FOOD & DRUG ADMINISTRATION	Reams, Rachel	VETERINARY DIAGNOSTIC LABORATORY	MICHIGAN STATE UNIVERSITY VDL VET-LIRN 2019
541	\$300,000	NATIONAL INST OF FOOD & AGRICULTURE	Reams, Rachel	VETERINARY DIAGNOSTIC LABORATORY	MICHIGAN STATE UNIVERSITY, VETERINARY DIAGNOSTIC LABORATORY, NATIONAL ANIMAL HEALTH LABORATORY NETWORK (NAHLN) LEVEL 1
542	\$87,660	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Reams, Rachel	VETERINARY DIAGNOSTIC LABORATORY	BIOTERRORISM PREPAREDNESS - DIAGNOSTIC CTR FOR POPULATION AND ANIMAL HEALTH
543	\$12,501	STATE OF MICHIGAN	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	DEVELOPING MICHIGAN'S PIPELINE TO VETERINARY MEDICAL EDUCATION
544	\$12,000	US DEPT OF AGRICULTURE	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	NEW COOPERATIVE AGREEMENT 59-6040-9-002 - SUPPORT USDA CAPITAL MANAGEMENT PLAN THROUGH PARTNERSHIP WITH MICHIGAN STATE UNIVERSITY
	FACILITY FOR RARE ISOTOPE BEAMS				
545	\$10,657,500	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS (FRIB)
546	\$161,547	BROOKHAVEN SCIENCE ASSOC LLC	Hao, Yue	FACILITY FOR RARE ISOTOPE BEAMS	JOINT APPOINTMENT AGREEMENT WITH BNL FOR YUE HAO
547	\$211,000	US DEPT OF ENERGY	Nazarewicz, Witold	FACILITY FOR RARE ISOTOPE BEAMS	MICROSCOPIC DESCRIPTION OF THE FISSION PROCESS

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
548	\$119,000	US DEPT OF ENERGY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	DEVELOPMENT OF HIGH-PERFORMANCE MEDIUM VELOCITY SUPERCONDUCTING ELLIPTICAL CAVITIES FOR HADRON LINACS
549	\$240,000	US DEPT OF ENERGY	York, Richard	FACILITY FOR RARE ISOTOPE BEAMS	HRS PRE-CD1 ACTIVITIES
550	\$36,733	TELLURIC LABS LLC	Fox, Ronald	NAT'L SUPERCONDUCTING CYCLOTRON LAB	IP ACCESS GATEWAY ELECTRONICS
551	\$749,921	UNIVERSITY OF CALIFORNIA BERKELEY	Liddick, Sean	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR SCIENCE AND ENGINEERING NONPROLIFERATION RESEARCH CONSORTIUM
552	\$52,466	MASSACHUSETTS INST OF TECHNOLOGY	Schatz, Hendrik	NAT'L SUPERCONDUCTING CYCLOTRON LAB	ESTABLISHING THE PROPERTIES OF THE FIRST STARS AND SUPERNOVAE AND THE ORIGINS OF THE HEAVIEST ELEMENTS WITH STELLAR ARCHAEOLOGY
553	\$2,000,000	NATIONAL SCIENCE FOUNDATION	Schatz, Hendrik	NAT'L SUPERCONDUCTING CYCLOTRON LAB	ACCELNET-WOU: INTERNATIONAL RESEARCH NETWORK FOR NUCLEAR ASTROPHYSICS (IRENA)
554	\$4,500,000	NATIONAL SCIENCE FOUNDATION	Sherrill, Bradley	NAT'L SUPERCONDUCTING CYCLOTRON LAB	OPERATION OF THE NSCL AS A NATIONAL USER FACILITY & RESEARCH PROGRAM
555	\$1,500,000	NATIONAL SCIENCE FOUNDATION	Spyrou, Artemisia	NAT'L SUPERCONDUCTING CYCLOTRON LAB	WINDOWS ON THE UNIVERSE: NUCLEAR ASTROPHYSICS AT THE NSCL
PROVOST AND ACADEMIC AFFAIRS					
556	\$113,221	INST OF MUSEUM & LIBRARY SERVICES	Abraczinskas, Laura	MUSEUM	SUPPORT FOR REHOUSING MICHIGAN STATE UNIVERSITY MUSEUM VERTEBRATE COLLECTIONS
557	\$10,000	NATIONAL ENDOWMENT FOR THE HUMANITIES	Swanson, Lynne	MUSEUM	MSU MUSEUM CULTURAL COLLECTIONS REHOUSING PROJECT
558	\$1,200,000	MICHIGAN STATE UNIV FOUNDATION	Youatt, June	PROVOST EVP FOR ACADEMIC AFFAIRS	CAPACITY BUILDING - PROVOST (RC066504)
ASC PROV FOR UNIV OUTREACH ENGAGEMENT					
559	\$469,359	MICHIGAN DEPT OF EDUCATION	Wu, Jamie	COMMUNITY EVALUATION & RSCH COLLABRTVE	2019-2020 EVALUATION OF MICHIGAN 21ST CENTURY COMMUNITY LEARNING CENTERS
560	\$384,189	MICHIGAN DEPT OF ENVIRONMENTAL QUALITY	Lamore, Rex	OUTREACH & ENGAGEMENT PARTNERSHIPS	STRUCTURAL MATERIAL REUSE AND INNOVATION HUB
561	\$150,000	US ECONOMIC DEVELOPMENT ADMINISTRATION	Lamore, Rex	OUTREACH & ENGAGEMENT PARTNERSHIPS	MSU EDA UNIVERSITY CENTER FOR REGIONAL ECONOMIC INNOVATION (REI)
562	\$27,967	MICHIGAN ECONOMIC DEVELOPMENT CORP	Lamore, Rex	OUTREACH & ENGAGEMENT PARTNERSHIPS	MEDC STUDENT-LED, FACULTY-GUIDED TECHNICAL ASSISTANCE
563	\$51,260	UNIVERSITY OF ALASKA	Lee, Kyungsook	UNIV OUTREACH & ENGAGEMENT - ADMIN	QUNGASVIK PREVENTION TRIAL

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
564	\$442,384	MICHIGAN DEPT OF LICENSING & REGULATORY AFFAIRS	Swierenga, Sarah	USABILITY/ACCESSIBILITY RSCH CONSULTING	HEALTH INFORMATION TECHNOLOGY TO PREVENT ABUSE, NEGLECT, AND EXPLOITATION: WORKFORCE BACKGROUND CHECKS – MAINTENANCE
565	\$33,400	YALE UNIV	Swierenga, Sarah	USABILITY/ACCESSIBILITY RSCH CONSULTING	FEASIBILITY OF ELDER MISTREATMENT VOICES SCREENING TOOL FOR OLDER ADULTS WITH VISUAL AND HEARING DISABILITIES
INTERNATIONAL STUDIES AND PROGRAMS					
566	\$351,000	US DEPT OF EDUCATION	Monson, Jamie	AFRICAN STUDIES CENTER	NATIONAL RESOURCE CENTER (TITLE VI)/FLAS
567	\$260,000	US DEPT OF EDUCATION	Monson, Jamie	AFRICAN STUDIES CENTER	NATIONAL RESOURCE CENTER (TITLE VI)/FLAS
568	\$49,998	FOREIGN AGRICULTURAL SERVICE	Wu, Xinyu	VISITING INTNL PROFESSIONAL PROGRAM	METHODOLOGICAL GUIDELINES TO ASSESS ECONOMIC AND ENVIRONMENTAL IMPACTS AND CROP MANAGEMENT FOR SUSTAINABLE CACAO PRODUCTION
569	\$90,079	FOREIGN AGRICULTURAL SERVICE	Wu, Xinyu	VISITING INTNL PROFESSIONAL PROGRAM	COCHRAN FELLOWSHIP PROGRAM – HOTEL, RESTAURANT, AND INSTITUTIONAL SECTOR DEVELOPMENT FOR SENEGAL, MALI, BURKINA FASO, AND THE GAMBIA
570	\$49,821	FOREIGN AGRICULTURAL SERVICE	Wu, Xinyu	VISITING INTNL PROFESSIONAL PROGRAM	BORLAUG FELLOWSHIP PROGRAM - KENYA - AG STRATEGIC COMMUNICATIONS - FELLOW #1
MSU AGBIORESEARCH					
571	\$7,941	MICHIGAN STATE HORTICULTURAL SOCIETY	Rothwell, Nikki	EXT AGRICULTURE AGRIBUSINESS MABR	UNDERSTANDING THE IMPACTS OF PRUNING TECHNIQUES TO CONTROL SPOTTED WING DROSOPHILA (SWD) IN MICHIGAN TART CHERRY
572	\$16,000	US AGENCY FOR INTL DEVELOPMENT	Douches, David	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE BIOTECHNOLOGY PARTNERSHIP
573	\$12,000	BATTELLE MEMORIAL INST	Liao, Wei	MSU AGBIORESEARCH DIR OFC	BLACKWATER TREATMENT
574	\$39,375	VARIOUS INDUSTRIES	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	BURNS PSM TESTING
575	\$40,000	MICHIGAN WHEAT PROGRAM	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	IDENTIFYING AND MANAGING FUSARIUM SPECIES RESPONSIBLE FOR HEAD SCAB
576	\$30,000	UNIVERSITY OF WISCONSIN MADISON	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	MULTI-PRONGED STRATEGIES TO PROVIDE EFFICIENT, SUSTAINABLE, AND DURABLE CONTROL TO SCLEROTINIA STEM ROT
577	\$20,000	UNIVERSITY OF ILLINOIS	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	BIOLOGY AND DISEASE MANAGEMENT IN RESPONSE TO THE EMERGING CORN PATHOGEN, PHYLLACHORA MAYDIS
578	\$11,340	MONSANTO CO	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	MICROBIAL SEED TREATMENT INOCULATED SOY SDS

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
579	\$15,120	MONSANTO CO	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	SOY SEED TREATMENT INOCULATED SDS
580	\$5,544	MONSANTO CO	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	SOYBEAN SEED TREATMENT EFFICACY INOCULATED PHYTOPHTHORA
581	\$5,040	MONSANTO CO	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CORN SEED TREATMENT EFFICACY INOCULATED PYTHIUM
582	\$295,169	UNIVERSITY OF WISCONSIN MADISON	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	CREATING A NEW PARADIGM FOR POTATO BREEDING AND SEED PRODUCTION BASED ON TRUE POTATO SEED
583	\$559,983	NATIONAL INST OF FOOD & AGRICULTURE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	NORTH CENTRAL PLANT DIAGNOSTIC NETWORK
584	\$44,040	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
585	\$13,333	PICKLE PACKERS INTL INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	A FIVE-YEAR PLAN TO IMPROVE EARLY DETECTION AND MANAGEMENT OF CUCUMBER DOWNY MILDEW
586	\$30,000	MICHIGAN BEAN COMMISSION	Kelly, James	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT OF HIGH-YIELDING, DISEASE RESISTANT, DROUGHT TOLERANT, PROCESSOR QUALITY DRY BEAN VARIETIES SUITABLE FOR PRODUCTION IN MICHIGAN
587	\$25,000	MICHIGAN BLUEBERRY GROWERS ASSOC	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATION OF BLUEBERRY CULTIVARS FOR FRUIT CHARACTERISTICS AND RESISTANCE TO ANTHROACNOSE
588	\$40,000	AGRICULTURAL RESEARCH SERVICE	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING POTATO COMMON SCAB MANAGEMENT STRATEGIES BASED ON STREPTOMYCES SPP. DIVERSITY FROM SUPPRESSIVE AND NON-SUPPRESSIVE SITES
589	\$18,900	MONSANTO CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	LOW TUNNEL VOLATILITY EVALUATION OF ROUNDUP XTEND II AND ROUNDUP XTEND II COMPLETE ALONE AND IN COMBINATION WITH LIBERTY
590	\$434,103	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	EFFECT OF ANTIBIOTIC USAGE ON CITRUS FOR HLB MANAGEMENT ON THE SELECTION OF ANTIBIOTIC RESISTANCE IN NONTARGET BACTERIAL MICROFLORA
MICHIGAN STATE UNIVERSITY EXTENSION					
591	\$1,000,000	NATIONAL INST OF FOOD & AGRICULTURE	Jess, Lynnae	ENTOMOLOGY MSUE	NORTH CENTRAL INTEGRATED PEST MANAGEMENT CENTER (NCIPMC): A REGIONAL APPROACH TO PEST MANAGEMENT IMPLEMENTATION FY18-FY22
592	\$8,190	MONSANTO CO	Goldy, Ronald	EXTENSION AGRICULTURE AND AGRIBUSINESS	PICKLING CUCUMBER POLLENIZER STUDY AND POP PICKLING CUCUMBER HYBRID TRIAL
593	\$34,645	MICHIGAN DEPT OF ENVIRONMENTAL QUALITY	Gould, Merrill	EXTENSION AGRICULTURE AND AGRIBUSINESS	AN ASSESSMENT OF MANURE-BASED COMPOST MARKETS IN MICHIGAN

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
594	\$10,000	MICHIGAN STATE HORTICULTURAL SOCIETY	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	APPLE MATURITY MANIPULATION - USE OF RETAIN, HARVISTA AND ETHREL
595	\$5,586	MICHIGAN STATE HORTICULTURAL SOCIETY	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	USING SAP ANALYSIS FOR HONEYCRISP NUTRITION AND BITTER PIT MANAGEMENT
596	\$5,520	MICHIGAN STATE HORTICULTURAL SOCIETY	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	DRAPENET EVALUATION FOR INCREASED FRUIT QUALITY PARAMETERS
597	\$10,000	MICHIGAN STATE HORTICULTURAL SOCIETY	Irish-Brown, Amy	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATION OF MULTIPLE LEADER HIGH DENSITY APPLE TRAINING SYSTEMS 2019
598	\$385,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Tocco, Phillip	EXTENSION AGRICULTURE AND AGRIBUSINESS	FOOD SAFETY MODERNIZATION ACT EDUCATION
599	\$58,981	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Babcock, Nicholas	EXTENSION CHILDREN AND YOUTH	YOUTH IN AGRICULTURE EDUCATION, INFLUENZA AND ZOONOSIS PROGRAM 2019
600	\$32,623	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	RG074651 4TH QTR 2018-19 BILLING
601	\$12,725	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	SPRING 2019 JOANN PAPER CLOVER RG100163
602	\$15,495	BARRY COUNTY UNITED WAY	Kilpatrick, Glenda	EXTENSION CHILDREN AND YOUTH	BARRY COUNTY MSU EXTENSION 4-H PROGRAM
603	\$451,213	MICHIGAN COMMUNITY SERVICE COMMISSION	Schulz, Jodi	EXTENSION CHILDREN AND YOUTH	MICHIGAN'S AMERICORPS FORMULA CONTINUATION 19-20 FUNDING FOR FUNDING RC108894
604	\$150,000	US DEPT OF AGRICULTURE	Shrier, Carrie	EXTENSION CHILDREN AND YOUTH	MICHIGAN STATE UNIVERSITY EXTENSION SUSTAINABLE COMMUNITY PROJECT (MSUESCP)
605	\$7,000	THE NATURE CONSERVANCY	Elgin, Erick	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	INTERSTATE AQUATIC INVASIVE SPECIES PREVENTION, EARLY DETECTION, AND RESPONSE FOR 2019-2020
606	\$9,500	UNIVERSITY OF MICHIGAN	O'Keefe, Daniel	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	STEELHEAD AMBASSADORS PROGRAM DEVELOPMENT
607	\$474,880	NATIONAL INST OF FOOD & AGRICULTURE	Skidmore, Mark	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	NORTH CENTRAL REGIONAL CENTER FOR RURAL DEVELOPMENT
608	\$20,750	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MICHIGAN SEA GRANT OMNIBUS FY 2018-2021
609	\$301,044	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	OLDER ADULT OPIOID PREVENTION
610	\$270,180	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	OLDER ADULT OPIOID PREVENTION SUPPLEMENTAL
611	\$90,060	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	OLDER ADULT OPIOID PREVENTION SUPPLEMENTAL

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
612	\$219,417	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Dwyer, Jeffrey	EXTENSION HEALTH AND NUTRITION	SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM - EDUCATION FY2019
613	\$7,500,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	East, Deanna	EXTENSION HEALTH AND NUTRITION	SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM EDUCATION
614	\$325,033	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	East, Deanna	EXTENSION HEALTH AND NUTRITION	SNAP OUTREACH
615	\$10,000	AT&T FOUNDATION	Henne, Rebecca	EXTENSION HEALTH AND NUTRITION	AT&T COOKING MATTERS
616	\$71,919	BOWLING GREEN UNIV	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	COHH3 - REVISION
617	\$8,136	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Badra, Peter	NATURAL FEATURES INVENTORY MSUE	ECOLOGICAL SURVEYS AND ASSESSMENTS TO FACILITATE RESTORATION ACTIVITIES AT THE SALT RIVER MARSH: EARLY SEASON FIELD COMPONENT
618	\$9,794	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Bassett, Tyler	NATURAL FEATURES INVENTORY MSUE	IMPACT OF FIRE ON CORYDALIS FLAVULA
619	\$15,000	MICHIGAN DEPT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	10 - DNR PRD NATURAL COMMUNITY SURVEYS AND MIFI INVENTORY OF PRD LANDS 2019
620	\$70,000	US DEPT OF AGRICULTURE	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	MODIFICATION TO PD 33335/RC108810: SURVEY, INVENTORY, AND MONITOR PLANTS, ANIMALS, AND ECOSYSTEMS ON THE HIAWATHA NATIONAL FOREST 2018-2023
621	\$58,478	NATIONAL PARK SERVICE	Monfils, Michael	NATURAL FEATURES INVENTORY MSUE	ASSESSMENT OF PROPOSED SAND POINT WETLAND RESTORATION
622	\$34,457	FISHBECK THOMPSON CARR & HUBER INC	Paskus Jr, John	NATURAL FEATURES INVENTORY MSUE	FTCH - HAMPTON LAKE SURVEY
623	\$6,930	MONSANTO CO	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATED CORN HERBICIDE PROGRAMS
624	\$5,670	MONSANTO CO	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	WARRANT TANK-MIX PARTNERS POST IN ALFALFA
625	\$5,670	MONSANTO CO	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	ALFALFA SAFETY - IMPROVED GLYPHOSATE FORMULATION
626	\$7,560	MONSANTO CO	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATION OF TRECEPTA FOR YIELD AND EFFICACY ON WESTERN BEAN CUTWORM
627	\$11,460	MICHIGAN BEAN COMMISSION	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	COMPREHENSIVE FERTILIZER RATE RECOMMENDATIONS FOR MICHIGAN DRY BEAN GROWERS: STRENGTHENING ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY
628	\$20,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Beyea, Wayne	SCHL OF PLANNING, DESIGN & CNST- MSUE	CLIMATE AND HEALTH COLLABORATION

Gift, Grant and Contract Report
Board of Trustees
December 2019

	Amount	Sponsor	Director	Unit	Purpose
629	\$110,188	MICHIGAN FITNESS FOUNDATION	Beyea, Wayne	SCHL OF PLANNING,DESIGN&CNST-MSUE	SAFE ROUTES TO SCHOOL: 2020
	RESEARCH AND INNOVATION				
630	\$99,000	VARIOUS INDUSTRIES	Hasemann, Charles	MSU INNOVATION CENTER	FEE FOR SERVICE - INDUSTRY
631	\$192,435	GRAND RAPIDS SMARTZONE LOCAL DEVELOPMENT FINANCE AUTHORITY	Hasemann, Charles	MSU INNOVATION CENTER	GRAND RAPIDS GATEWAY GRANT
632	\$25,000	UNIVERSITY OF MICHIGAN	Hasemann, Charles	MSU INNOVATION CENTER	MICHIGAN CORPORATE RELATIONS NETWORK (MCRN) 6.0
633	\$15,000	AITCH FOUNDATION	Gage, Douglas	RESEARCH AND INNOVATION SVP	GIFT TO SUPPORT THE WORK OF AN MSU GRAD STUDENT DOING RESEARCH FOCUSED ON THE EARLY DETECTION OF CANCER.
634	\$700,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	CAPACITY BUILDING (RC066597)
635	\$300,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	HUMANITIES AND ARTS RESEARCH PROGRAM (HARP) - RG073699
636	\$300,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	COMPETITIVE DISCRETIONARY FUNDING/DISCRETIONARY FUNDING INITIATIVE (RG074715)
637	\$985,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	STRATEGIC PARTNERSHIP GRANT (RC066533)
638	\$500,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	MSU FOUNDATION PROFESSORSHIPS (RC066597, SUBACCT PROF)
639	\$320,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	TARGETED SUPPORT GRANTS FOR TECHNOLOGY DEVELOPMENT (RG074704)
640	\$200,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	SPECIAL EQUIPMENT (RG074711)
641	\$1,430,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	VP RESEARCH DISCRETIONARY (RG072997, SUBACCT RESRV)
642	\$2,905,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	TECHNOLOGY COMMERCIALIZATION - MSUT (RG100310)
	VICE PRES FOR STUDENT AFFAIRS SERVICES				
643	\$379,973	COLLEGE ADVISING CORPS	Maybank, Denise	STUDENT AFFAIRS & SERVICES VICE PRES	MSU COLLEGE ADVISING CORPS
644	\$376,584	US DEPT OF EDUCATION	Maybank, Denise	STUDENT AFFAIRS & SERVICES VICE PRES	CHILD CARE ACCESS MEANS PARENTS IN SCHOOLS (CCAMPIS) MSU SPARTAN KIDS CHILD CARE SUPPORT PROGRAM
645	\$450,000	MICHIGAN COLLEGE ACCESS NETWORK	Maybank, Denise	STUDENT AFFAIRS & SERVICES VICE PRES	MCAN (MICHIGAN COLLEGE ACCESS NETWORK)

**Gift, Grant and Contract Report
Board of Trustees
December 2019**

	Amount	Sponsor	Director	Unit	Purpose
	GRADUATE SCHOOL DEAN				
646	\$56,372	BOSTON UNIV	Campa, Henry	GRADUATE SCHOOL DEAN	POSTDOCTORAL PATHWAYS - BROADENING ACCESS TO CAREER ADVANCEMENT
647	\$49,608	UNIVERSITY OF WISCONSIN	McDaniels, Melissa	GRADUATE SCHOOL DEAN	CENTER FOR THE IMPROVEMENT OF MENTORED EXPERIENCES IN RESEARCH: SCALING AND INSTITUTIONAL CAPACITY DEVELOPMENT OF RESEARCH MENTOR AND MENTEE TRAINING
648	\$28,398	UNIVERSITY OF WISCONSIN	McDaniels, Melissa	TEACHING ASSISTANT PROGRAMS	SYSTEMS AND PROCESS IMPROVEMENT - NATIONAL RESEARCH MENTORING NETWORK (NRMN) COORDINATION CENTER
	UNIVERSITY ADVANCEMENT				
649	\$16,810,755	VARIOUS DONORS - ADVANCEMENT	Heil, Marti	VICE PRESIDENT UNIVERSITY ADVANCEMENT	GIFTS TO MSU FOR THE PERIOD 7/1/2019 THROUGH 9/30/2019
	ADMINISTRATION				
650	\$592,403	VARIOUS DONORS	Udpa, Satish	MSU FOUNDATION	QUARTERLY GIFT/GRANT TRANSFERS
	FINANCE				
651	\$5,358,724	VARIOUS GRANTORS	Pedawi, Evonne	SPONSORED PROGRAMS ADMIN CGA POSTAWARD	FEE FOR SERVICE - OTHER
	GENERAL UNIVERSITY ITEMS				
652	\$176,519	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	CENTER FOR SURVIVORS	SEXUAL ASSAULT VICTIM SERVICES FY - 2020
653	\$897,275	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	CENTER FOR SURVIVORS	FY 2020- CVS GRANT
654	\$11,932	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	COUNSELING AND PSYCHIATRIC SERVICES	FY 2019- CVS TARGETED VICTIM SERVICES VOCA
655	\$67,034	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	COUNSELING AND PSYCHIATRIC SERVICES	FY 2019 CVS- VOCA CRIME VICTIM ASSISTANCE
656	\$29,875	CHILDRENS HOSPITAL OF MICHIGAN FOUNDATION	Martell, Dennis	MSU STUDENT HEALTH CENTER	MICHIGAN STATE UNIVERSITY COLLEGIATE RECOVERY COMMUNITY GRANT R2-2019-24
	VARIOUS				
657	\$339,184	VARIOUS	Various	Various	132 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION
	\$170,069,826	Total December 2019 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
December 13, 2019

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Air transportation	Dempsey Ventures LLC	Intercollegiate Athletics / Spartan Fund	\$38,617.50	Recruiting trips for Coach Izzo
2	Rare collection of diverse & unique 19 th & 20 th century objects	Charles G Schoenknecht Ward A. Paul	Libraries	\$30,393.00	Research in Special Collections
3	Original artwork by Ariel Ruiz I Altaba “Race” 42”x36” “Chromo-Somes-I” 30”x30” “Chromo-Somes-II” 30”x30” “The Possibility of Being-II”	Elena Ruiz	Arts & Letters	\$27,000.00	For use in C4I space
4	Lumber	James & Catherine Rosenthal	President	\$26,896.49	Cowles House renovation
5	Air transportation	Mike McNamara	Intercollegiate Athletics / Spartan Fund	\$19,582.15	Recruiting trips for Coach Izzo
6	Rare books from the 19 th -20 th centuries	Michael VanderKolk	Libraries	\$17,646.00	Research in Special Collections
7	Littman Stethoscopes Model# L2144L	Sharon VanVranken	College of Veterinary Medicine	\$15,755.00	First year veterinary students
8	Sutures for VM557 Operative Surgery	Johnson & Johnson	Vet Med Dean	\$14,404.41	Supplies for VM557 Operative Surgery
9	Comic book collection Published between 1950-2018	Bruce & Lynn Edwards	Libraries	\$11,258.56	Research in Special Collections
10	Handheld ultrasound machines Serial #VH16396935 Serial #VH163959XX	Doug Ellinger	College of Human Medicine	\$10,460.00	Education & training of medical students

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
11	Hosted donor event in Illinois	Brian & Michele Kessler	Intercollegiate Athletics / Spartan Fund	\$9,223.42	Cultivation & solicitation
12	Maintenance services	Asbestos Abatement, Inc.	Intercollegiate Athletics / Spartan Fund	\$8,000.00	Maintenance to Spartan Stadium 5 th & 6 th floor
13	Air transportation	Mike McNamara	Intercollegiate Athletics / Spartan Fund	\$7,585.96	Recruiting trips for Coach Izzo
14-89	Various	Various	Various	\$47,162.28	76 Consolidated non-cash gifts for individual values less than \$5,000 Details on file in the Contract & Grant Administration office, Hannah Administration Bldg. 426 Auditorium Road, Room 2 East Lansing, MI
			TOTAL	\$283,984.77	