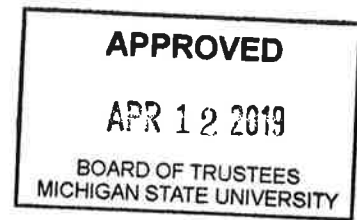


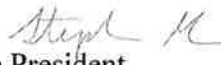
**MICHIGAN STATE
UNIVERSITY**



March 22, 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 January 17, 2019 through March 12, 2019. The report is a compilation of 370 Gifts, Grants and Contracts plus 51 Consignment/Non-Cash Gifts, with a total value of \$75,738,814.



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

Stephen Hsu
Senior Vice President

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

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

vprqs.msu.edu

FY 2018-19 TOTALS:

a) Gifts, Grants and Contracts only:	\$551,488,710
b) Gifts, Grants and Contracts plus Consignments:	\$554,448,308

(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: 4/12/2019

AWARD TOTALS

Research			
01/17/19-03/12/19		18-19	% of Total
<u>Gift/Grant Source</u>	<u>Acceptance Total</u>	<u>Acceptance Total</u>	<u>YTD</u>
Federal Government	\$57,622,046	\$355,710,999	85.8%
State of Michigan	\$4,787,029	\$16,141,434	3.9%
Other	\$3,602,070	\$13,298,056	3.2%
Industry/CO	\$742,099	\$6,865,157	1.7%
Foundation	\$756,258	\$19,422,511	4.7%
Association	\$694,394	\$3,200,803	0.8%
TOTAL	\$68,203,896	\$414,638,959	100%

Non-Research			
01/17/19-03/12/19		18-19	% of Total
<u>Gift/Grant Source</u>	<u>Acceptance Total</u>	<u>Acceptance Total</u>	<u>YTD</u>
Federal Government	\$3,198,938	\$48,190,695	35.2%
State of Michigan	\$105,540	\$6,403,041	4.7%
Other	\$2,614,238	\$12,845,079	9.4%
Industry/CO	\$860,433	\$4,277,585	3.1%
Foundation	\$223,697	\$4,054,371	3.0%
Association	\$0	\$590,092	0.4%
Various Donors - Advancement	\$0	\$60,488,888	44.2%
TOTAL	\$7,002,847	\$136,849,751	100%

Total			
01/17/19-03/12/19		18-19	% of Total
<u>Gift/Grant Source</u>	<u>Acceptance Total</u>	<u>Acceptance Total</u>	<u>YTD</u>
Federal Government	\$60,820,984	\$403,901,694	73.2%
State of Michigan	\$4,892,569	\$22,544,475	4.1%
Other	\$6,216,308	\$26,143,135	4.7%
Industry/CO	\$1,602,532	\$11,142,742	2.0%
Foundation	\$979,956	\$23,476,882	4.3%
Association	\$694,394	\$3,790,895	0.7%
Various Donors - Advancement	\$0	\$60,488,888	11.0%
TOTAL	\$75,206,743	\$551,488,710	100%

OF AWARDS

Research			
01/17/19-03/12/19		18-19	% of Total
<u>Gift/Grant Source</u>	<u>Acceptance Total</u>	<u>Acceptance Total</u>	<u>YTD</u>
Federal Government	124	896	51.6%
State of Michigan	33	88	5.1%
Other	41	258	14.8%
Industry/CO	41	260	15.0%
Foundation	15	83	4.8%
Association	50	153	8.8%
TOTAL	304	1738	100%

Non-Research			
	01/17/19-03/12/19	18-19	% of Total
<u>Gift/Grant Source</u>	<u>Acceptance Total</u>	<u>Acceptance Total</u>	<u>YTD</u>
Federal Government	19	176	30.6%
State of Michigan	5	42	7.3%
Other	13	130	22.6%
Industry/CO	18	135	23.5%
Foundation	11	71	12.3%
Association	0	18	3.1%
Various Donors - Advancement	0	3	0.5%
TOTAL	66	575	100%

Total			
01/17/19-03/12/19		18-19	% of Total
<u>Gift/Grant Source</u>	<u>Acceptance Total</u>	<u>Acceptance Total</u>	<u>YTD</u>
Federal Government	143	1072	46.3%
State of Michigan	38	130	5.6%
Other	54	388	16.8%
Industry/CO	59	395	17.1%
Foundation	26	154	6.7%
Association	50	171	7.4%
Various Donors - Advancement	0	3	0.1%
TOTAL	370	2313	100%

Current Year / Previous Year**Gift & Grant Awards**

Meeting Date: 4/12/2019

AWARD TOTALS

Research			
<u>Gift/Grant Source</u>	<u>05/26/17-03/13/18</u>	<u>05/22/18-03/12/19</u>	<u>% Change</u>
Federal Government	\$296,768,406	\$355,710,999	19.9%
State of Michigan	\$9,352,627	\$16,141,434	72.6%
Other	\$15,287,380	\$13,298,056	-13.0%
Industry/CO	\$7,175,924	\$6,865,157	-4.3%
Foundation	\$30,567,275	\$19,422,511	-36.5%
Association	\$3,461,364	\$3,200,803	-7.5%
TOTAL	\$362,612,976	\$414,638,959	14%

Non-Research			
<u>Gift/Grant Source</u>	<u>05/26/17-03/13/18</u>	<u>05/22/18-03/12/19</u>	<u>% Change</u>
Federal Government	\$41,254,468	\$48,190,695	16.8%
State of Michigan	\$7,139,823	\$6,403,041	-10.3%
Other	\$7,683,594	\$12,845,079	67.2%
Industry/CO	\$3,533,554	\$4,277,585	21.1%
Foundation	\$4,078,184	\$4,054,371	-0.6%
Association	\$847,163	\$590,092	-30.4%
Various Donors - Advancement	\$85,833,127	\$60,488,888	-29.5%
TOTAL	\$150,369,913	\$136,849,751	-9%

Total			
<u>Gift/Grant Source</u>	<u>05/26/17-03/13/18</u>	<u>05/22/18-03/12/19</u>	<u>% Change</u>
Federal Government	\$338,022,875	\$403,901,694	19.5%
State of Michigan	\$16,492,450	\$22,544,475	36.7%
Other	\$22,970,973	\$26,143,135	13.8%
Industry/CO	\$10,709,477	\$11,142,742	4.0%
Foundation	\$34,645,459	\$23,476,882	-32.2%
Association	\$4,308,527	\$3,790,895	-12.0%
Various Donors - Advancement	\$85,833,127	\$60,488,888	-29.5%
TOTAL	\$512,982,889	\$551,488,710	8%

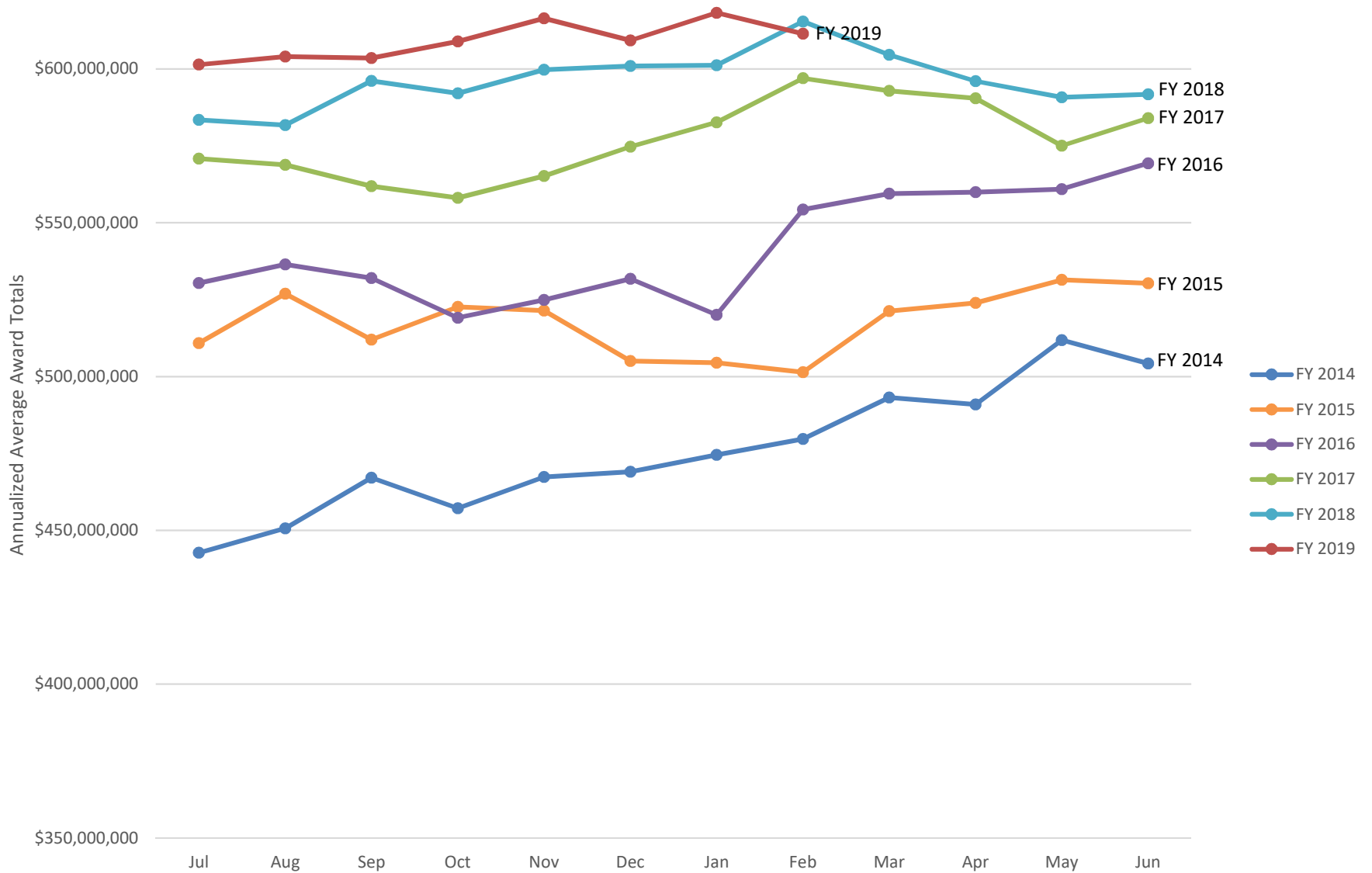
OF AWARDS

Research			
<u>Gift/Grant Source</u>	<u>05/26/17-03/13/18</u>	<u>05/22/18-03/12/19</u>	<u>% Change</u>
Federal Government	852	896	5.2%
State of Michigan	80	88	10.0%
Other	253	258	2.0%
Industry/CO	296	260	-12.2%
Foundation	99	83	-16.2%
Association	202	153	-24.3%
TOTAL	1782	1738	-2%

Non-Research			
<u>Gift/Grant Source</u>	<u>05/26/17-03/13/18</u>	<u>05/22/18-03/12/19</u>	<u>% Change</u>
Federal Government	185	176	-4.9%
State of Michigan	45	42	-6.7%
Other	122	130	6.6%
Industry/CO	133	135	1.5%
Foundation	69	71	2.9%
Association	23	18	-21.7%
Various Donors - Advancement	3	3	0.0%
TOTAL	580	575	-1%

Total			
<u>Gift/Grant Source</u>	<u>05/26/17-03/13/18</u>	<u>05/22/18-03/12/19</u>	<u>% Change</u>
Federal Government	1037	1072	3.4%
State of Michigan	125	130	4.0%
Other	375	388	3.5%
Industry/CO	429	395	-7.9%
Foundation	168	154	-8.3%
Association	225	171	-24.0%
Various Donors - Advancement	3	3	0.0%
TOTAL	2362	2313	-2%

Michigan State University 3 Year Annualized Average Awards



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

Top 10 Awards for the April 12, 2019 BOT Meeting

Rank	Funding Type	Award Amount	First PI	Grantor	Dept	New or Revision	Function	Project Dates	Title
1	Federal Government	\$18,000,000	Sherrill, Bradley	National Science Foundation	NAT'L SUPERCONDUCTING CYCLOTRON LAB	New	Research	10/1/2016 9/30/2021	OPERATION OF THE NSCL AS A NATIONAL USER FACILITY & RESEARCH PROGRAM
2	Federal Government	\$10,292,558	Hegg, Eric	ENERGY US DEPT OF	GREAT LAKES BIOENERGY RESEARC CTR VPRGS	Revision	Research	12/1/2017 11/30/2019	GREAT LAKES BIOENERGY RESEARCH CENTER
3	Federal Government	\$3,700,000	Goodman, Erik	National Science Foundation	BIO/COMPUTATIONAL EVOLUTION IN ACTION	New	Research	8/1/2010 7/31/2021	BEACON: AN NSF CENTER FOR THE STUDY OF EVOLUTION IN ACTION
4	State of Michigan	\$2,000,000	Smith, George	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	MSU AGBIORESEARCH DIR OFC	New	Research	1/1/2017 4/1/2021	MICHIGAN ALLIANCE FOR ANIMAL AGRICULTURE 2019
5	Federal Government	\$1,454,260	Taylor, Terrie	NATL INST OF HEALTH - NIH/PHS	OSTEOPATHIC MEDICAL SPECIALTIES COM	New	Research	12/12/2016 11/30/2019	TREATING BRAIN SWELLING IN PEDIATRIC CEREBRAL MALARIA
6	Federal Government	\$1,364,000	Stoddart, Judith	National Science Foundation	GRADUATE SCHOOL DEAN	New	Education	8/1/2018 7/31/2023	GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP)
7	Federal Government	\$1,337,000	Liverpool-Tasie, Lenis	AGENCY FOR INTERNATL DEVELOPMENT	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	New	Research	7/1/2015 6/30/2020	ENHANCING KNOWLEDGE AND CAPACITY TO STRENGTHEN AGRICULTURAL AND FOOD SECURITY POLICY PROCESSES IN NIGERIA
8	Federal Government	\$1,263,230	Klausner, James	ENERGY US DEPT OF	MECHANICAL ENGINEERING	New	Research	1/23/2019 4/22/2020	SCALABLE THERMOCHEMICAL OPTION FOR RENEWABLE ENERGY STORAGE (STORES)
9	Federal Government	\$876,000	Ross, Arun	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	COMPUTER SCIENCE AND ENGINEERING	New	Research	9/1/2018 2/28/2020	PRESENTATION ATTACK DETECTION: SOLUTIONS FOR FINGERPRINTS, FACE AND IRIS SYSTEMS
10	Other	\$872,000	Sullivan, Cris	Washington State Coalition Against Domestic Violence	PSYCHOLOGY SOCIAL SCIENCE	New	Research	3/1/2019 9/30/2022	DVHF 24-MONTH FOLLOWUP
		\$41,159,048							

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
COLLEGE OF AGRICULTURE AND NAT RESOURCES					
1	\$331,883	AGENCY FOR INTERNATL DEVELOPMENT	Boughton, Duncan	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FOOD SECURITY POLICY
2	\$621,038	AGENCY FOR INTERNATL DEVELOPMENT	Crawford, Eric	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FEED THE FUTURE SENEGAL AGRICULTURAL POLICY PROJECT
3	\$250,000	AGENCY FOR INTERNATL DEVELOPMENT	Donovan, Cynthia	CANR INTERNATIONAL PROGRAMS MABR	USAID ASSOCIATE AWARD - LEGUME SCHOLARS PROGRAM
4	\$1,337,000	AGENCY FOR INTERNATL DEVELOPMENT	Liverpool-Tasie, Lenis	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ENHANCING KNOWLEDGE AND CAPACITY TO STRENGTHEN AGRICULTURAL AND FOOD SECURITY POLICY PROCESSES IN NIGERIA
5	\$600,168	AGENCY FOR INTERNATL DEVELOPMENT	Mason-Wardell, Nicole	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FOOD SECURITY POLICY - ZAMBIA BUY-IN
6	\$80,250	FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS	Reardon, Thomas	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	A RESEARCH STUDY ON FOOD SYSTEMS TRANSFORMATION AND ASSOCIATED OVERWEIGHT AND OBESITY BURDEN IN SELECT COUNTRIES IN SUB SAHARAN AFRICA
7	\$22,260	RHODE ISLAND UNIVERSITY OF	Shupp, Robert	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	A BEHAVIORAL-EXPERIMENTAL ASSESSMENT OF MULTI-YEAR COMMITMENTS AND FARM RISK MANAGEMENT IN THE 2014 AGRICULTURAL ACT
8	\$15,600	THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK (SUNY)	Cibelli, Jose	ANIMAL SCIENCE DEPARTMENT ANR	PART AND IDEA IN SPINAL CORD INJURY- HEALING THE CONTUSION-INJURED SPINAL CORD MICROENVIRONMENT WITH NANOTECHNOLOGY- AND STEM CELL- ASSISTED MODULATION
9	\$15,000	CORN MARKETING PROGRAM OF MICHIGAN	Ghane, Ehsan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	CONTROLLED DRAINAGE: A DRAINAGE CONSERVATION PRACTICE TO REDUCE PHOSPHORUS LOSS FROM SUBSURFACE-DRAINED FIELDS
10	\$52,583	BATTELLE MEMORIAL INSTITUTE	Liao, Wei	UNIVERSITY RESEARCH ORGANIZATION	BLACKWATER TREATMENT
11	\$100,000	TECHNOSERVE	Flores, Luis	CANR INTERNATIONAL PROGRAMS	MEJORAMIENTO AGRÍCOLA SOSTENIBLE
12	\$6,432	CHERRY MARKETING INSTITUTE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
13	\$5,989	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
14	\$50,836	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Campa, Henry	FISHERIES AND WILDLIFE	COMPLETE RESEARCH PROJECT TITLED, " ELK RESPONSES TO RECREATIONAL USE AND HABITAT POTENTIAL IN MICHIGAN ," AND ASSOCIATED DELIVERABLES AS DETAILED IN ATTACHMENT A, STATE OF WORK.
15	\$22,822	WILDLIFE CONSERVATION SOCIETY	Gore, Meredith	UNIVERSITY RESEARCH ORGANIZATION	URBAN BUSHMEAT
16	\$68,707	UNIVERSITY OF MONTANA	Montgomery, Robert	FISHERIES AND WILDLIFE	SURVEILLANCE FOR THE WHITE-NOSE SYNDROME FUNGUS IN MULTIPLE MIDWEST PARKS
17	\$250,000	NATIONAL SCIENCE FOUNDATION	Owen, Jennifer	FISHERIES AND WILDLIFE	CAREER: INTRASPECIFIC VARIATION IN PATHOGEN LOAD IN VIRUS-INFECTED BIRDS: ROLE OF EXTRINSIC AND INTRINSIC FACTORS
18	\$65,856	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Riley, Shawn	FISHERIES AND WILDLIFE	IMPROVING PARTNERSHIPS FOR THE MICHIGAN DNR WILDLIFE DIVISION: CREATION OF PUBLIC VALUE THROUGH COLLABORATIVE GOVERNANCE AND PARTNERSHIPS
19	\$43,478	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Riley, Shawn	FISHERIES AND WILDLIFE	EXPLORING CAUSAL FACTORS AND EFFECTS OF DECLINING HUNTER PARTICIPATION IN MICHIGAN
20	\$41,152	GREAT LAKES FISHERIES COMMISSION	Robinson, Kelly	FISHERIES AND WILDLIFE	MANAGING LAKE ERIE WALLEYE (SANDER VITREUS) IN THE FACE OF UNCERTAIN NATURAL MORTALITY AND CLIMATE-RELATED EFFECTS ON RECRUITMENT
21	\$15,170	GREAT LAKES FISHERIES COMMISSION	Robinson, Kelly	FISHERIES AND WILDLIFE	THE CONSEQUENCES OF CONNECTIVITY
22	\$178,663	NAVAL RESEARCH US OFFICE OF USDN	Rose, Joan	FISHERIES AND WILDLIFE	RAPID DETECTION OF VIRAL PATHOGENS USING THIRD GENERATION TECHNOLOGIES FOR ADDRESSING MARINE MAMMAL HEALTH
23	\$30,139	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Roth, Brian	FISHERIES AND WILDLIFE	FOOD WEB DYNAMICS IN MICHIGAN'S GREAT LAKES AND INLAND LAKES. DR. BRIAN ROTH PERM SALARY FOR FY 2019.
24	\$6,189	MICHIGAN UNIVERSITY OF	Taylor, William	FISHERIES AND WILDLIFE	MICHIGAN SEA GRANT OMNIBUS ADMINISTRATION
25	\$209,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	WILDLIFE AND RECREATIONAL VALUE OF CREATED AND ENHANCED WETLANDS IN MICHIGAN
26	\$30,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	CRITICAL EVALUATION OF MICHIGAN'S SPRING WATERFOWL SURVEY
27	\$10,003	ILLINOIS URBANA CHAMPAIGN UNIV OF	Bello Bravo, Maria Julia	FOOD SCIENCE AND HUM NUTRITION ANR	PRE-IGNITION BIOMASS EMISSIONS: CAUSES AND CHARACTERIZATION

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
28	\$12,000	BEET SUGAR DEVELOPMENT FOUND	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	ONGOING STUDIES ON LEAF SPOT AND ROOT ROT IN SUGAR BEETS
29	\$289,111	NATL INST OF HEALTH - NIH/PHS	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	NUCLEOCYTOPLASMIC REGULATION OF PATHOGEN-INDUCED ACTIN DYNAMICS.
30	\$16,205	CORN MARKETING PROGRAM OF MICHIGAN	Ines, Amor Valeriano	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT OF A DECISION SUPPORT MODEL FOR THE MANAGEMENT OF FUNGAL EAR ROT AND ASSOCIATED MYCOTOXIN CONTAMINATION IN CORN GRAIN
31	\$32,576	POTATOES USA	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	NATIONAL CHIP POTATO VARIETY COMMERCIALIZATION PROGRAM MANAGEMENT
32	\$51,238	COLORADO STATE UNIV	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATING NEXT-GENERATION TECHNOLOGIES FOR BLACKLEG AND SOFT ROT MANAGEMENT IN POTATO.
33	\$672,003	INTL INST FOR TROPICAL AGRICULTURE	Snapp, Sieglinde	PLANT SOIL AND MICROBIAL SCIENCES	TRANSFORMING KEY PRODUCTION SYSTEMS: MAIZE MIXED EAST AND SOUTHERN AFRICA
34	\$19,000	CORN MARKETING PROGRAM OF MICHIGAN	Thompson, Addie	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN GENOMES TO FIELDS: A COLLABORATION WITH THE NCGA GENOMES2FIELDS GXE PROJECT
35	\$23,600	NATIONAL HOUSING ENDOWMENT	Mollaoglu, Sinem	SCHOOL OF PLANNING DES CONSTRUCTION ANR	2018 HELP- MSU CONSTRUCTION MANAGEMENT PROGRAM
36	\$200,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Asher, Aaron	WATER RESEARCH INSTITUTE ANR	CONNECTING SOIL HEALTH FUNCTIONS TO WATER QUALITY AT EDGE OF FIELD AND WATERSHED SCALE
COLLEGE OF ARTS AND LETTERS					
37	\$37,634	INST OF INTERNATL EDUCATION	Winke, Paula	LINGUISTICS,GERM,SLA VIC,ASIAN,AFR LANG	MICHIGAN STATE UNIVERSITY LANGUAGE FLAGSHIP PROFICIENCY INITIATIVE YEAR 5 CONTINUATION PROPOSAL
ELI BROAD COLLEGE OF BUSINESS					
38	\$23,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Fraye, David	EXECUTIVE DEVELOPMENT PROGRAMS	CRITICAL THINKING SKILLS WORKSHOPS FOR QUALITY OF LIFE STAFF
COLLEGE OF COMMUNICATION ARTS SCIENCES					
39	\$73,343	STANFORD RESEARCH INSTITUTE	Besley, John	UNIVERSITY RESEARCH ORGANIZATION	TO3: DEVELOP A CHAPTER ON SCIENCE AND TECHNOLOGY: PUBLIC ATTITUDES AND UNDERSTANDING FOR SCIENCE AND ENGINEERING INDICATORS - 2018
40	\$100,000	MICH COASTAL MANAGEMENT PROGRAM	Levine, Kenneth	COMMUNICATION	MCMP MARKETING & COMMUNICATIONS PLAN

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
COLLEGE OF EDUCATION					
41	\$75,070	HANDICAPPER ADVOCACY ALLIANCE INC	Sung, Connie	COUNSELING, EDUC PSYCH & SPEC EDUC	IMPLEMENTATION AND EVALUATION OF SCHOOL-BASED PRE-EMPLOYMENT TRAINING PROGRAM
42	\$96,000	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
43	\$35,000	AMER INSTITUTES FOR RESEARCH	Strunk, Katharine	EDUCATIONAL ADMINISTRATION	THE EFFICACY AND EFFICIENCY OF TEACHER SCREENING AND HIRING
44	\$51,022	WISCONSIN UNIV OF	Gonzales, Leslie	EDUCATIONAL ADMINISTRATION	COLLABORATIVE RESEARCH: NSF INCLUDES ALLIANCE: AN ALLIANCE TO DEVELOP AN INCLUSIVE AND DIVERSE NATIONAL FACULTY FOR BROADENING SUCCESS OF UNDERREPRESENTED 2-YEAR AND 4-YEAR STEM STUDENTS
COLLEGE OF ENGINEERING					
45	\$578,306	NATL INST OF HEALTH - NIH/PHS	Contag, Christopher	INSTITUTE FOR QUANTITATIVE HEALTH	RAMAN MOLECULAR IMAGING FOR EARLY DETECTION OF COLON CANCER
46	\$402,997	NATL INST OF HEALTH - NIH/PHS	Purcell, Erin	BIOMEDICAL ENGINEERING	STRUCTURAL AND FUNCTIONAL PLASTICITY SURROUNDING IMPLANTED NEUROPROSTHESES
47	\$446,917	NATL INST OF HEALTH - NIH/PHS	Spence, Dana	BIOMEDICAL ENGINEERING	FROM SINGLE MOLECULE TO MICROFLUIDIC 3D TISSUE PLATFORMS: NOVEL MULTISCALE TOOLS TO INVESTIGATE HYPER-STIMULATED IMMUNE CELLS IN THE CIRCULATION
48	\$310,816	ENERGY US DEPT OF	Qi, Yue	CHEMICAL ENGINEERING AND MATERIALS SCI	DENDRITE GROWTH MORPHOLOGY MODELING IN LIQUID AND SOLID ELECTROLYTES
49	\$155,415	MICHIGAN FITNESS FOUNDATION	Gates, Timothy	UNIVERSITY RESEARCH ORGANIZATION	TECHNICAL SUPPORT FOR MICHIGAN SAFE ROUTES TO SCHOOL, FY19-FY24
50	\$29,194	FEDERAL AVIATION ADMINISTRATION	Lajnef, Nizar	CIVIL AND ENVIRONMENTAL ENGINEERING	INSTRUMENTATION - PROCURING, AND INSTALLING SELF-POWERED WIRELESS SENSORS AT NAPMRC
51	\$321,497	NATIONAL SCIENCE FOUNDATION	Aktulga, H. Metin	COMPUTER SCIENCE AND ENGINEERING	CAREER: SCALABLE SPARSE LINEAR ALGEBRA FOR EXTREME-SCALE DATA ANALYTICS AND SCIENTIFIC COMPUTING
52	\$40,000	NEC LABORATORIES AMERICA INC	Jain, Anil	COMPUTER SCIENCE AND ENGINEERING	BIOMETRICS RESEARCH
53	\$10,000	ADOBE SYSTEMS INCORPORATED	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	RESEARCH FOR ADOBE
54	\$40,000	CLARKSON UNIVERSITY	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	DNA TO FACE: DEDUCING FACIAL MORPHOLOGY FROM HUMAN GENOMIC DATA

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
55	\$876,000	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	PRESENTATION ATTACK DETECTION: SOLUTIONS FOR FINGERPRINTS, FACE AND IRIS SYSTEMS
56	\$817,344	NAVAL RESEARCH US OFFICE OF USDN	Albrecht, John	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPMENT OF MILLIMETER-WAVE HIGH POWER DENSITY DIAMOND-COLLECTOR HETEROJUNCTION BIPOLAR TRANSISTORS
57	\$18,383	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER RESEARCH CENTER FOR COATING AND LASER APPLICATIONS
58	\$3,700,000	NATIONAL SCIENCE FOUNDATION	Goodman, Erik	BIO/COMPUTATIONAL EVOLUTION IN ACTION	BEACON: AN NSF CENTER FOR THE STUDY OF EVOLUTION IN ACTION
59	\$75,000	NAVAL RESEARCH US OFFICE OF USDN	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	HIGHLY-MULTIPLEXED FIBER-OPTIC ACOUSTIC EMISSION SENSOR SYSTEM FOR ADAPTIVE STRUCTURAL HEALTH MONITORING
60	\$599,997	NATIONAL SCIENCE FOUNDATION	Li, Wen	ELECTRICAL AND COMPUTER ENGINEERING	RET SITE: MULTIDISCIPLINARY COMPUTATIONAL SOLUTIONS TO SMART SENSORS AND SENSING SYSTEMS
61	\$45,000	AIR FORCE RESEARCH LABORATORY	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	A SCALABLE, HIGH-ACCURACY POSITION MEASUREMENT SYSTEM FOR OPEN-LOOP COHERENT DISTRIBUTED RF ARRAYS
62	\$200,000	FORD MOTOR COMPANY	Papapolymerou, John	ELECTRICAL AND COMPUTER ENGINEERING	LOW-PROFILE CONFORMAL ANTENNAS FOR FORD VEHICLES
63	\$43,450	TOYOTA MOTOR ENGINEERING & MFG NORTH AMER INC	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	DETECTION AND LOCALIZATION OF KINKS IN INFLATABLE TUBES
64	\$483,849	COLLABORATIVE COMPOSITE SOLUTIONS CORP.	Udpa, Lalita	UNIVERSITY RESEARCH ORGANIZATION	TASK 3.13: DEVELOPMENT OF NON-DESTRUCTIVE EVALUATION/NON-DESTRUCTIVE TESTING (NDE/NDT) TOOLS FOR HIGH-VOLUME, HIGH-SPEED INSPECTION OF CFRP STRUCTURES IN AUTOMOTIVE MANUFACTURING(ACCTASK 3.8 - PHASE2)
65	\$150,594	SIEMENS CORPORATION	Averill, Ronald	MECHANICAL ENGINEERING	UHD-SOS: ENABLING DESIGN OF ULTRA HIGH DEFINITION STRUCTURE OF STRUCTURES
66	\$1,263,230	ENERGY US DEPT OF	Klausner, James	MECHANICAL ENGINEERING	SCALABLE THERMOCHEMICAL OPTION FOR RENEWABLE ENERGY STORAGE (STORES)
67	\$69,988	LOS ALAMOS NATL LABORATORY	Mejia-Alvarez, Ricardo	MECHANICAL ENGINEERING	TURBULENT FLOW IN WITH HIGH VISCOSITY RATIOS
68	\$50,000	NATL AERONAUTICS AND SPACE ADM	Wichman, Indrek	MECHANICAL ENGINEERING	DEVELOPING THE NARROW CHANNEL APPARATUS AS A NASA STANDARD MATERIAL FLAMMABILITY TEST

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
	COLLEGE OF HUMAN MEDICINE				
69	\$9,097	BROWN UNIVERSITY	Johnson, Jennifer	CHM FLINT	TREATMENT DEVELOPMENT OF YOGA FOR ANGER MANAGEMENT IN INCARCERATED ADULTS
70	\$13,632	BUTLER HOSPITAL	Johnson, Jennifer	CHM FLINT	MOBILE AFTER-CARE SUPPORT INTERVENTION FOR PATIENTS WITH SCHIZOPHRENIA FOLLOWING HOSPITALIZATION
71	\$184,063	NATI INST ALCOHOL ABUSE & ALCOHOLISM	Sadler, Richard	CHM FLINT	THE LEGACY EFFECTS OF DISCRIMINATORY HOUSING POLICIES ON COMMUNITY AVAILABILITY OF ALCOHOL
72	\$47,131	MUNSON MEDICAL CENTER	Kerver, Jean	EPIDEMIOLOGY AND BIOSTATISTICS	CORE: COMMUNITY OPIOID RECOVERY EXPANSION
73	\$45,920	UNIVERSITY OF COLORADO - DENVER	Luo, Zhehui	EPIDEMIOLOGY AND BIOSTATISTICS	WHY IS USE OF THE MEDICARE INTENSIVE BEHAVIORAL THERAPY FOR OBESITY BENEFIT SO LOW? FINDING WHAT WORKS TO PROMOTE WIDER DISSEMINATION
74	\$149,426	NATL INST OF HEALTH - NIH/PHS	Todem, David	EPIDEMIOLOGY AND BIOSTATISTICS	LONGITUDINAL ANALYSIS OF DENTAL CARIES INDICES IN INNER-CITY AFRICAN-AMERICAN CHILDREN
75	\$20,615	SOUTHWEST ONCOLOGY GROUP	Al-Janadi, Anas	MEDICINE	SWOG TREATMENT PROTOCOL
76	\$30,949	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
77	\$18,239	INCYTE CORP	Hrinczenko, Borys	CANCER CENTER	PROSPECTIVE, LONGITUDINAL, NON-INTERVENTIONAL STUDY OF DISEASE BURDEN AND TREATMENT OF PATIENTS WITH LOW-RISK MYELOFIBROSIS (MF) OR HIGH-RISK ESSENTIAL THROMBOCYTHEMIA(ET) OR ET PATIENTS RECEIVING ET-
78	\$668,326	NATIONAL INSTITUTE OF DENTAL & CRANIOFACIAL RESEARCH	Pyeon, Dohun	MICROBIOLOGY & MOLECULAR GENETICS CNS	IMMUNE DYSREGULATION BY HUMAN PAPILLOMAVIRUS DURING HEAD AND NECK CANCER PROGRESSION
79	\$138,810	LILLY ELI - COMPANY	Bozoki, Andrea	NEUROLOGY AND OPHTHALMOLOGY COM	PROTOCOL I8D-MC-AZETA RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED ANDDELAYED-START STUDY OF LY3314814 IN MILD ALZHEIMER'SDISEASE DEMENTIA (THE DAYBREAK STUDY)
80	\$10,000	BLUE CROSS BLUE SHIELD OF MICHIGAN FDTN.	Avery, Anita	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	REASONS FOR LACK OF FOLLOW-UP AFTER PRENATAL ABNORMAL PAP TEST IN POST-PARTUM MEDICAID WOMEN

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
81	\$364,225	NATL INST CHILD HEALTH & HUMAN DEV -NIH/PHS	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ROLE OF MICRORNA IN THE PATHOPHYSIOLOGY OF ENDOMETRIOSIS
82	\$15,000	SPECTRUM HEALTH FOUNDATION	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	FAMILIAS FUERTES Y SALUDABLES (STRONG AND HEALTHY FAMILIES) - SPECTRUM HEALTH LATINA EXPANSION GRANT
83	\$11,141	NATL INST OF HEALTH - NIH/PHS	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	INTEGRATING TRANSCRIPTOMIC, PROTEOMIC AND PHARMACOGENOMIC DATA TO INFORM INDIVIDUALIZED THERAPY IN CANCERS
84	\$10,546	CHILDRENS HOSPITAL OF PHILADELPHIA	Gera, Renuka	PEDIATRICS AND HUMAN DEVELOPMENT	WORKLOAD INTENSITYNIH NATIONAL CLINICAL TRIALS NETWORK (NCTN) GRANT (U10CA180886)SUCCESSOR TO NIH COG CHAIR GRANT (U10CA098543)
85	\$25,431	CYSTIC FIBROSIS FOUND	Hurwitz, Martin	PEDIATRICS AND HUMAN DEVELOPMENT	CYSTIC FIBROSIS MENTAL HEALTH COORDINATION
86	\$23,725	CYSTIC FIBROSIS FOUND	Hurwitz, Martin	PEDIATRICS AND HUMAN DEVELOPMENT	CF FUNDAMENTALS LEARNING AND LEADERSHIP COLLABORATIVE 3 (FUN LLC3) 2017
87	\$10,431	CONATUS PHARMACEUTICALS INC.	Bailie, Marc	PHARMACOLOGY TOXICOLOGY	COMPOUND SCREENING FOR EFFICACY TEST ARTICLE IN A JO2 ANTIBODY-MEDIATED MOUSE MODEL OF ACUTE HEPATIC INJURY
88	\$22,649	MDI THERAPEUTICS INC	Bailie, Marc	PHARMACOLOGY TOXICOLOGY	RAT 7-DAY TOXICITY STUDY OF ORAL MDI-2517 18IVF114
89	\$68,694	NACUITY PHARMACEUTICAL INC	Bailie, Marc	PHARMACOLOGY TOXICOLOGY	EVALUATION OF ANTIPLATELET EFFECTS OF NPI-001 IN A MULTI-SPECIES PLATELET AGGREGATION ASSAY (18IVF119)
90	\$74,704	ZYMERON CORP	Bailie, Marc	PHARMACOLOGY TOXICOLOGY	TARGETED AND SUSTAINED RELEASE MICROPARTICLES FOR COLON CANCER CHEMOPREVENTION
91	\$22,743	ZYMERON CORP	Bailie, Marc	UNIVERSITY RESEARCH ORGANIZATION	EXTENDED RELEASE TABLE FORMULATION FOR NERVE AGENT PRETREATMENT
92	\$369,953	NATL INST OF HEALTH - NIH/PHS	Rockwell, Cheryl	PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE	THE ROLE OF NRF2 IN IMMUNE CELL POLARIZATION AND ALLERGIC DISEASE
93	\$202,275	NATL CANCER INSTITUTE - NIH/PHS	Sempere, Lorenzo	INSTITUTE FOR QUANTITATIVE HEALTH	CHEMICAL ABLATION OF DUCTAL TREE FOR BREAST CANCER PREVENTION
94	\$36,086	PHI BETA PSI SORORITY	Sempere, Lorenzo	INSTITUTE FOR QUANTITATIVE HEALTH	DISRUPTING STROMAL MIR-21 ACTIVITY FOR IMPROVED TREATMENT EFFICACY IN PANCREATIC CANCER
95	\$29,814	GLADIATOR BIOSCIENCES	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	MATERIALS TRANSFER AGREEMENT

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
96	\$355,680	NATL INST OF HEALTH - NIH/PHS	Collier, Kathy	TRANSLATION SCIENCE & MOLECULAR MED	IMPACT OF DYSFUNCTIONAL BDNF ON DOPAMINE TERMINAL REMODELING IN THE PARKINSONIAN STRIATUM
97	\$59,117	COLUMBIA UNIVERSITY	Kanaan, Nicholas	TRANSLATION SCIENCE & MOLECULAR MED	THE ROLE OF SUMOYLATION IN TAU-MEDIATED PATHOLOGY
98	\$348,750	NATL INST OF HEALTH - NIH/PHS	Manfredsson, Fredric	TRANSLATION SCIENCE & MOLECULAR MED	ALPHA-SYNUCLEIN AGGREGATION DISRUPTS MOTILITY, SYNAPTIC TRANSMISSION, AND CALCIUM SIGNALING IN THE MYENTERIC PLEXUS OF THE RAT COLON
99	\$14,926	WESTON BRAIN INST	Sortwell, Caryl	TRANSLATION SCIENCE & MOLECULAR MED	ADVISOR SUPPORT AGREEMENT
JAMES MADISON COLLEGE					
100	\$64,907	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Kramer, Daniel	FISHERIES AND WILDLIFE	USING SOCIAL NETWORK ANALYSIS AND SOCIAL MEDIA EVALUATION TO MEASURE AND ASSESS RELATIONSHIP BUILDING AND PARTNERSHIPS UNDER THE MICHIGAN DNR'S HABITAT GRANTS PROGRAMS
LYMAN BRIGGS COLLEGE					
101	\$261,739	NATIONAL SCIENCE FOUNDATION	Bell, Robert	LYMAN BRIGGS DEAN	REU SITE: REU IN DISCRETE AND APPLIED MATHEMATICS
COLLEGE OF MUSIC					
102	\$99,933	MAX M & MARJORIE S FISHER FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	HIP HOP TOTS (TOTS)
103	\$10,000	PNC FOUNDATION	Woodward, Jill	MUSIC	EARLY MUSIC, EARLY LEARNING
104	\$7,000	YOUNG WOMANS HOME FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	MOMS FOR MUSIC!
COLLEGE OF NATURAL SCIENCE					
105	\$40,440	NATIONAL SCIENCE FOUNDATION	Last, Robert	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	RESEARCH-PGR: HOW DO PLANTS PRODUCE SO MANY DIVERSE METABOLITES: A COMPUTATIONAL AND EXPERIMENTAL COMPARATIVE GENOMICS INVESTIGATION IN THE SOLANACEAE (ROA SUPPLEMENT)
106	\$50,000	METAVIVOR RESEARCH & SUPPORT, INC.	Lunt, Sophia	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	TARGETING SIALIC ACID METABOLISM TO STOP METASTATIC BREAST CANCER
107	\$500,000	NATIONAL SCIENCE FOUNDATION	Lunt, Sophia	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	CAREER: ENGINEERING TUNABLE FLUORESCENT ORGANIC SALTS FOR NEXT GENERATION IMAGING AND PHOTODYNAMIC THERAPY

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
108	\$177,149	NATIONAL SCIENCE FOUNDATION	Parent, Kristin	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	CAREER: UNCOVERING THE STRANGE BIOLOGY OF ELUSIVE SHIGELLA PHAGES AND THEIR ROLES IN HORIZONTAL GENE TRANSFER
109	\$237,962	SAMUEL ROBERTS NOBLE FOUNDATION INC	Takahashi, Hideki	BIOCHEMISTRY & MOLECULAR BIOLOGY CNS	GENOME-WIDE ANALYSIS OF SMALL SIGNALING PEPTIDES IN MEDICAGO TRUNCATULA WITH AN EMPHASIS ON MACRO-NUTRIENT REGULATION OF ROOT AND NODULE DEVELOPMENT
110	\$420,237	NATL INST OF HEALTH - NIH/PHS	Huang, Xuefei	CHEMISTRY	ENGINEERING BACTERIOPHAGE Q CONJUGATES WITH TUMOR ASSOCIATED CARBOHYDRATE ANTIGENS AS MULTI-COMPONENT ANTI-CANCER VACCINES
111	\$163,704	GEORGIA UNIVERSITY OF	Merz, Kenneth	CHEMISTRY	GENETICS AND QUANTUM CHEMISTRY AS TOOLS FOR UNKNOWN METABOLITE IDENTIFICATION
112	\$6,000	XG SCIENCES INC	Staples, Richard	CHEMISTRY	SERVICES ACCESS AGREEMENT WITH XG SCIENCES FOR USE OF POWDER DIFFRACTION FACILITY
113	\$288,058	NATIONAL SCIENCE FOUNDATION	Swain, Greg	CHEMISTRY	REU SITE: CROSS DISCIPLINARY TRAINING IN SUSTAINABLE CHEMISTRY AND CHEMICAL PROCESSES
114	\$27,000	CORN MARKETING PROGRAM OF MICHIGAN	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	COMPARING METHODS FROM INDUSTRY, UNIVERSITY TO FORECAST YIELD AND NITROGEN FERTILIZER MANAGEMENT IN CORN
115	\$59,377	GEORGE WASHINGTON UNIVERSITY	Dorfman, Susannah	EARTH AND ENVIRONMENTAL SCIENCES	CAPITAL-DOE ALLIANCE CENTER: A CENTER OF EXCELLENCE FOR HIGH PRESSURE SCIENCE AND TECHNOLOGY
116	\$133,419	NATIONAL SCIENCE FOUNDATION	Dorfman, Susannah	EARTH AND ENVIRONMENTAL SCIENCES	CAREER: EXPERIMENTAL CONSTRAINTS ON CARBON-IRON REDOX INTERACTION IN EARTH'S DEEP LOWER MANTLE
117	\$51,969	ALASKA UNIVERSITY OF	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	ALASKA VOLCANO OBSERVATORY GEODESY
118	\$93,655	NATL AERONAUTICS AND SPACE ADM	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	MEASURING AND MODELING THE RESPONSE OF THE SOLID EARTH TO CHANGES IN THE CRYOSPHERE AND THE EARTHQUAKE CYCLE IN SOUTHERN ALASKA
119	\$159,566	LAWRENCE LIVERMORE NATL LAB	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	FORMER SOVIET UNION SEISMOLOGICAL ASSISTANCE IV
120	\$208,473	NATIONAL SCIENCE FOUNDATION	Zarnetske, Jay	EARTH AND ENVIRONMENTAL SCIENCES	CAREER: TOWARDS FORECASTING WATERSHED ORGANIC CARBON FLUXES ACROSS FLOW REGIMES AND ECOREGIONS

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
121	\$30,000	AMER GASTROENTEROLOGICAL ASSOC	Ganz, Julia	INTEGRATIVE BIOLOGY	REGULATORY NETWORKS OF NEURONAL DIFFERENTIATION AND NEURONAL SUBTYPE SPECIFICATION DURING ENTERIC NERVOUS SYSTEM DEVELOPMENT
122	\$9,417	ZOETIS	Conner, Jeffrey	KELLOGG BIOLOGICAL STATION NAT. SCI.	MASTITIS MILK SAMPLE COLLECTION
123	\$15,000	NATIONAL SCIENCE FOUNDATION	Levin, Aaron	MATHEMATICS	DIOPHANTINE APPROXIMATION AND VALUE DISTRIBUTION THEORY AT THE INTERFACE OF ARITHMETIC AND COMPLEX HYPERBOLIC GEOMETRY: A RESEARCH WORKSHOP WITH MINICOURSE
124	\$119,000	BRISTOL MYERS SQUIBB	Nguyen, Duc	MATHEMATICS	SODIUM POTASSIUM AND WATER REGULATION
125	\$101,356	ARIZONA UNIVERSITY OF	Adami, Christoph	MICROBIOLOGY & MOLECULAR GENETICS CNS	APPLICATION OF MACHINE-LEARNING ALGORITHMS FOR ON-BOARD ASTEROID SHAPE MODEL DETERMINATION AND SPACECRAFT NAVIGATION
126	\$447,725	NATL INST OF HEALTH - NIH/PHS	Hammer, Neal	MICROBIOLOGY & MOLECULAR GENETICS CNS	ELUCIDATING STRATEGIES OF STAPHYLOCOCCUS AUREUS NUTRIENT SULFUR ACQUISITION DURING INFECTION
127	\$232,500	NATL INST OF HEALTH - NIH/PHS	Hammer, Neal	MICROBIOLOGY & MOLECULAR GENETICS CNS	ISOPRENOID SYNTHESIS AND ALLOCATION IN STAPHYLOCOCCUS AUREUS
128	\$498,074	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	Manning, Shannon	MICROBIOLOGY & MOLECULAR GENETICS CNS	IMPACT OF CEFTIOFUR USE ON ANTIBIOTIC RESISTANT BACTERIAL POPULATIONS IN DAIRY CATTLE
129	\$295,510	IDAHO UNIVERSITY OF	Martinez Gomez, Norma	MICROBIOLOGY & MOLECULAR GENETICS CNS	DIMENSIONS: AN INORDINATE FONDNESS FOR METHYLOBACTERIUM - ROLES OF PHYLOGENY, GENOME CONTENT, AND FUNCTIONAL PERFORMANCE TRAITS IN THE EVOLUTION AND ASSEMBLY OF A DIVERSE PLANT-ASSOCIATED COMMUNITY
130	\$139,571	NATIONAL SCIENCE FOUNDATION	Martinez Gomez, Norma	MICROBIOLOGY & MOLECULAR GENETICS CNS	CAREER: UNCOVERING RARE EARTH ELEMENTS BIOCHEMISTRY: FROM ENZYMES TO ECOSYSTEMS
131	\$251,083	WISCONSIN UNIV OF	Walker, Edward	ENTOMOLOGY AGRICULTURE AND NATURAL RES	THE UPPER MIDWESTERN REGIONAL CENTER OF EXCELLENCE IN VECTOR-BORNE DISEASE
132	\$124,712	VAN ANDEL RESEARCH INSTITUTE	Schwartz, Richard	NATURAL SCIENCE DEAN	VAN ANDEL RESEARCH INSTITUTE GRADUATE RECRUITMENT OF MSU GRADUATE STUDENTS
133	\$7,750	OHIO STATE UNIVERSITY	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	HUMAN ENTERIC GLIA: A NOVEL TARGET FOR MOTILITY AND POSTOPERATIVE ILEUS
134	\$64,186	NORTHROP GRUMMAN CORP	Birge, Norman	PHYSICS-ASTRONOMY	FERROMAGNETIC JOSEPHSON JUNCTIONS FOR CRYOGENIC RANDOM ACCESS MEMORY

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
135	\$69,384	MICHIGAN UNIVERSITY OF	Brock, Raymond	PHYSICS-ASTRONOMY	ATLAS GREAT LAKES TIER 2 CENTER
136	\$168,781	STONY BROOK UNIVERSITY	Brock, Raymond	PHYSICS-ASTRONOMY	US ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER
137	\$119,481	STONY BROOK UNIVERSITY	Brock, Raymond	PHYSICS-ASTRONOMY	DISCOVERY/MEASUREMENT AT THE ENERGY FRONTIER
138	\$150,000	NAVAL RESEARCH US OFFICE OF USDN	Cocker, Tyler	PHYSICS-ASTRONOMY	PROBING THE OPTOELECTRONICS OF GRAPHENE NANORIBBONS ON THE ATOMIC SCALE WITH TERAHERTZ SCANNING TUNNELING MICROSCOPY
139	\$149,192	UNIV OF WISCONSIN - MADISON	DeYoung, Tyce	PHYSICS-ASTRONOMY	ICECUBE GEN@ PHASE: AN ICECUBE EXTENSION FOR PREVISION NEUTRINO PHYSICS AND ASTROPHYSICS - CONTRUCTION UPGRADE
140	\$40,000	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Donahue, Megan	PHYSICS-ASTRONOMY	THE XMM-NEWTON HERITAGE PROGRAM: "WITNESSING THE CULMINATION OF STRUCTURE FORMATION IN THE UNIVERSE"
141	\$10,000	NATIONAL SCIENCE FOUNDATION	Pollanen, Johannes	PHYSICS-ASTRONOMY	MSU WORKSHOP ON QUANTUM INFORMATION SCIENCE: ARE WE AT THE CROSSROADS?
142	\$58,250	CROHNS AND COLITIS FOUNDATION OF AMERICA	Grubisic, Vladimir	PHYSIOLOGY NATURAL SCIENCE	THE ROLE OF ENTEROGLIAL ADENOSINE A2B RECEPTORS IN FUNCTIONAL RECOVERY AFTER COLITIS
143	\$50,000	MDRC	Leininger, Gina	PHYSIOLOGY NATURAL SCIENCE	MICHIGAN DIABETES RESEARCH CENTER
144	\$48,310	NATL INST OF HEALTH - NIH/PHS	Levitsky, Yan	PHYSIOLOGY NATURAL SCIENCE	MITOCHONDRIAL CERAMIDE AND DIABETIC RETINOPATHY
145	\$100,000	AVIELLE FOUNDATION	Robison, Alfred	PHYSIOLOGY NATURAL SCIENCE	AGGRESSION AND THE GUT-BRAIN AXIS
146	\$29,997	US GEOLOGICAL SURVEY	Brudvig, Lars	PLANT BIOLOGY CNS	EXAMINING THE EFFICACY OF OAK SAVANNA RESTORATION
147	\$175,555	NORTH CAROLINA STATE UNIVERSITY	Buell, CRobin	PLANT BIOLOGY CNS	GENOMIC TOOLS FOR SWEETPOTATO IMPROVEMENT
148	\$63,943	PEPSICO INC	Buell, CRobin	PLANT BIOLOGY CNS	POTATO GENOMIC / COMPUTATIONAL TOOLS
COLLEGE OF OSTEOPATHIC MEDICINE					
149	\$218,638	NATL INST OF HEALTH - NIH/PHS	Waters, Christopher	MICROBIOLOGY & MOLECULAR GENETICS CNS	UNCOVERING THE FIRST 5'-PGPG SIGNALING SYSTEM
150	\$9,212	NORTHWESTERN UNIVERSITY	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PHASE IIA, PARALLEL GROUP, TWO-COHORT STUDY TO DEFINE THE SAFETY, TOLERABILITY, CLINICAL AND EXPLORATORY BIOLOGICAL ACTIVITY OF THE CHRONIC ADMINISTRATI

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
151	\$7,425	RA PHARMACEUTICALS INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 2, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE SAFETY, TOLERABILITY, AND PRELIMINARY EFFICACY OF RA101495 IN SUBJECTS WITH GENERALIZED MYASTHENIA GRAVIS
152	\$1,454,260	NATL INST OF HEALTH - NIH/PHS	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	TREATING BRAIN SWELLING IN PEDIATRIC CEREBRAL MALARIA
153	\$6,298	SPECTRUM HEALTH SYSTEMS OF GRAND RAPIDS	Dexheimer, Thomas	PHARMACOLOGY TOXICOLOGY	PHARMACOLOGICAL PROFILING OF PATIENT-DERIVED NEUROBLASTOMA CELLS
154	\$364,001	NATL INST OF HEALTH - NIH/PHS	Liby, Karen	PHARMACOLOGY TOXICOLOGY	NRF2, IMMUNE CELLS AND LUNG CANCER
155	\$31,975	GRAND VALLEY STATE UNIVERSITY	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	A RANDOMIZED CONTROLLED TRIAL OF VISUAL CUES, SIGNAGE, AND SPACED-RETRIEVAL EDUCATION WITHIN LONG TERM CARE COMMUNITIES TO ASSIST WITH WAYFINDING
COLLEGE OF SOCIAL SCIENCE					
156	\$49,587	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Gore, Meredith	FISHERIES AND WILDLIFE	IMPROVING EFFICACY OF FURBEARER MANAGEMENT IN MICHIGAN THROUGH ASSESSMENT OF THE NATURE AND EXTENT OF ILLEGAL FURHARVESTING
157	\$49,996	BLACK FAMILY DEVELOPMENT INC	Krupa, Julie	CRIMINAL JUSTICE	DETROIT CEASEFIRE PROGRAM
158	\$50,488	THE 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
159	\$140,538	YALE UNIVERSITY	Maxwell, Christopher	CRIMINAL JUSTICE	EVALUATING THE IMPACT OF THE DOMESTIC VIOLENCE HOMICIDE PREVENTION DEMONSTRATION PROGRAM
160	\$25,000	MICHIGAN ENVIRONMENTAL COUNCIL	Arbogast, Alan	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	LEARNING TO LIVE IN DYNAMIC DUNES
161	\$5,148	USDA - NATURAL RESOURCES CONSERVATION SERVICE	Bunting, Erin	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	IMAGE INTERPRETATION FOR THE NRI ON-LINE COURSE
162	\$77,932	NATL OCEANIC & ATMOSPHERIC ADMIN	Luo, Lifeng	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	DEVELOPING AN AUTOMATED WEEKLY PROBABILISTIC AND CATEGORICAL DROUGHT OUTLOOK BASED ON U.S. DROUGHT MONITOR AND ENSEMBLE PREDICTION
163	\$49,998	NATIONAL SCIENCE FOUNDATION	Moran, Emilio	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	FOOD SECURITY AND LAND USE: THE TELECOUPLING CHALLENGE

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
164	\$506,072	NATL AERONAUTICS AND SPACE ADM	Qi, Jiaguo	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	QUANTIFYING HUMAN AND CLIMATE IMPACTS ON WETLAND ECOSYSTEMS IN THE LOWER MEKONG RIVER BASIN
165	\$100,000	NATL AERONAUTICS AND SPACE ADM	Qi, Jiaguo	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	ASSESSING THE IMPACTS OF DAMS ON THE DYNAMIC INTERACTIONS AMONG DISTANT WETLANDS, LAND USE, AND RURAL COMMUNITIES IN THE LOWER MEKONG RIVER BASIN
166	\$118,119	NATL AERONAUTICS AND SPACE ADM	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
167	\$38,000	MICH PUBLIC HEALTH INSTITUTE	McCauley, Heather	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	MICHIGAN CRIME VICTIM NEEDS ASSESSMENT
168	\$49,415	MI STATE OF	Grossmann, Matthew	INST FOR PUBLIC POLICY SOCIAL RESEARCH	MICHIGAN JOB VACANCIES (JVS)
169	\$12,235	NEW YORK UNIVERSITY	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	IN UTERO ASSESSMENT OF THE HUMAN NEURAL CONNECTOME AND LATER CHILD BEHAVIOR
170	\$149,455	VIRGINIA UNIV OF	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	UNDERSTANDING "WHAT COULD BE": HERITABILITY IN A RANDOMIZED TWIN DESIGN
171	\$573,461	NATL INST OF HEALTH - NIH/PHS	Durbin, Catherine	PSYCHOLOGY SOCIAL SCIENCE	NEUROBEHAVIORAL LIABILITIES OF PRECURSIVE RISK FOR SUDS IN CHILDREN
172	\$342,303	NATL INST OF HEALTH - NIH/PHS	Johnson, Alexander	PSYCHOLOGY SOCIAL SCIENCE	NEUROPEPTIDE MODULATION OF PREDICTIVE REGULATION VIS CHEMOGENETIC AND OPTOGENETIC CONTROL
173	\$577,257	NATL INST OF HEALTH - NIH/PHS	Moser, Jason	PSYCHOLOGY SOCIAL SCIENCE	COGNITIVE CONTROL IN ANXIETY: THE ROLE OF OVARIAN HORMONES
174	\$119,904	NATIONAL SCIENCE FOUNDATION	Neal, Zachary	PSYCHOLOGY SOCIAL SCIENCE	EXTRACTING THE BACKBONE OF BIPARTITE PROJECTIONS
175	\$389,707	MICH PUBLIC HEALTH INSTITUTE	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	MICHIGAN VICTIM ADVOCACY NETWORK
176	\$293,783	MICH PUBLIC HEALTH INSTITUTE	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	MICHIGAN VICTIM ADVOCACY NETWORK - (FEDERAL COMPETITIVE FUNDS_
177	\$872,000	WASHINGTON STATE COALITION AGAINST DOMESTIC VIOLENCE	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	DVHF 24-MONTH FOLLOWUP
178	\$9,000	EYEPREDICT LLC	Thakkar, Katharine	PSYCHOLOGY SOCIAL SCIENCE	ASSESSING PSYCHOSIS-RELATED DEFICITS BASED ON GAZE BEHAVIOR

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
179	\$48,735	MOUNT SINAI MEDICAL CENTER	Thakkar, Katharine	PSYCHOLOGY SOCIAL SCIENCE	SENSORY CONSEQUENCES OF ACTION IN CHILDREN WITH AUTISM SPECTRUM DISORDERS
ASC PROVOST FOR UNDERGRADUATE EDUCATION					
180	\$196,000	MICHIGAN DEPT OF EDUCATION	Garcia, Luis	MIGRANT STUDENT SERVICES	TITLE 1, PART C MIGRANT EDUCATION PROGRAM IDENTIFICATION AND RECRUITMENT CENTERS
COLLEGE OF VETERINARY MEDICINE					
181	\$38,252	MEMPHIS UNIVERSITY OF	Ewart, Susan	LARGE ANIMAL CLINICAL SCIENCES	DOES EPIGENETIC METHYLATION EXPLAIN THE GENDER-SWITCH IN ADOLESCENT ASTHMA?
182	\$66,581	ZOETIS	Moeser, Adam	LARGE ANIMAL CLINICAL SCIENCES	ANTI-INFLAMMATORY EFFECTS ON INTESTINAL FUNCTION IN WEANED SWINE
183	\$15,000	LIFESPAN	Rashmir, Ann	LARGE ANIMAL CLINICAL SCIENCES	STUDENT SUPPORT - INVESTIGATION OF NEUROLOGIC ABNORMALITIES IN HORSES WITH HEREDITARY EQUINE REGIONAL DERMAL ASTHENIA
184	\$5,500	ZOOLOGICAL SOCIETY OF CINCINNATI DBA CINCINNATI ZOO & BOTANICAL GARDEN	Agnew, Dalen	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	HEMOSIDEROSIS IN RHINOCEROS
185	\$234,899	MERCK & CO INC	Hussey, Gisela	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	EFFECT OF PRODIGY/FLUAVERT ON STIMULATION OF IMMUNITY TO EHV-1 IN HORSES
186	\$75,575	CHILDRENS HOSPITAL OF CINCINNATI	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	FIBRIN(OGEN) CONTROL OF METABOLIC INFLAMMATION AND OBESITY
187	\$277,050	NATL INST OF HEALTH - NIH/PHS	Atchison, William	PHARMACOLOGY TOXICOLOGY	MICHIGAN STATE UNIVERSITY PREP: INCREASING UNDERREPRESENTED MINORITY REPRESENTATION IN BIOMEDICAL SCIENCES
188	\$284,640	POLYACTIVA PTY LTD	Komaromy, Andras	SMALL ANIMAL CLINICAL SCIENCES	6-MONTH GLAUCOMA IMPLANT ANIMAL STUDY
189	\$9,915	AMER COLL OF VET INTERNAL MED FOUNDATION	Langlois, Daniel	SMALL ANIMAL CLINICAL SCIENCES	URINE ELECTROLYTE CONCENTRATIONS AND RATIOS AS DIAGNOSTIC AND TREATMENT MONITORING MARKERS FOR HYPOADRENOCORTICISM IN DOGS
190	\$17,250	TISTOU & CHARLOTTE KERSTAN FOUNDATION	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	EFFICACY OF GENE AUGMENTATION THERAPY AT LATER STAGES OF RETINAL DEGENERATION IN A LARGE ANIMAL MODEL OF RETINITIS PIGMENTOSA DUE TO A PDE6A MUTATION
191	\$35,000	NATL INST OF HEALTH - NIH/PHS	Yuzbasiyan-Gurkan, Vilma	VETERINARY MEDICINE DEAN	NIH-MERIAL VETERINARY SCHOLARS SYMPOSIUM: VETERINARIANS IN BIOMEDICAL RESEARCH: BUILDING CAPACITY

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
FACILITY FOR RARE ISOTOPE BEAMS					
192	\$61,057	NATIONAL SCIENCE FOUNDATION	Bogner, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	AB-INITIO NUCLEAR THEORY: FROM NUCLEI TO NEUTRON STARS
193	\$168,000	ENERGY US DEPT OF	Chen, Jun	NAT'L SUPERCONDUCTING CYCLOTRON LAB	COMPLILATION AND EVALUATION OF NUCLEAR STRUCTURE AND DECAY DATA
194	\$200,000	ENERGY US DEPT OF	Nazarewicz, Witold	NAT'L SUPERCONDUCTING CYCLOTRON LAB	THEORETICAL NUCLEAR STRUCTURE
195	\$18,000,000	NATIONAL SCIENCE FOUNDATION	Sherrill, Bradley	NAT'L SUPERCONDUCTING CYCLOTRON LAB	OPERATION OF THE NSCL AS A NATIONAL USER FACILITY & RESEARCH PROGRAM
196	\$40,494	JEFFERSON SCIENCE ASSOCIATES LLC	Spyrou, Artemisia	NAT'L SUPERCONDUCTING CYCLOTRON LAB	STUDENT TRAINING AND ENGAGEMENT PROGRAM IN UNDERGRADUATE PHYSICS
MSU AGBIORESEARCH					
197	\$166,374	MINNESOTA UNIV OF	Bursian, Steven	ANIMAL SCIENCE DEPARTMENT ANR	DEVELOPMENT OF TOXICITY REFERENCE VALUES (TRVS) FOR BIRDS EXPOSED TO PFOS, PFOA AND ASSOCIATED MIXTURES OF FLUORINATED COMPOUNDS
198	\$200,000	FOUNDATION FOR FOOD & AGRICULTURE RESEARCH	Vandelaar, Michael	ANIMAL SCIENCE DEPARTMENT ANR	IMPROVING DAIRY FEED EFFICIENCY, SUSTAINABILITY, AND PROFITABILITY BY IMPACTING FARMER'S BREEDING AND CULLING DECISIONS
199	\$45,786	CORN MARKETING PROGRAM OF MICHIGAN	Safferman, Steven	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	DYNAMIC SOIL PHOSPHORUS INDEXX
200	\$11,995	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	NUTRITION MANAGEMENT FOR EUROPEAN FOULBROOD (EFB) RECOVERY IN HONEY BEES
201	\$22,150	SAGINAW COUNTY OF	Kaufman, Michael	ENTOMOLOGY AGRICULTURE AND NATURAL RES	ARBO-VIRAL DISEASE TESTING OF SERO SAMPLES AND MOSQUITO POOLS FOR SLE, EEE, WNV, AND CALIFORNIA GROUP ENCEPHALITIS
202	\$5,667	AMVAC CHEMICAL CORP	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING FOR MOCAP IN POTATOES
203	\$23,762	CORN MARKETING PROGRAM OF MICHIGAN	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATION OF NEMATODE DAMAGE IN CORN

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
204	\$18,375	MARRONE ORGANIC INNOVATIONS, INC.	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING MARRONE INSECTICIDES FOR FRUIT CROP IPM
205	\$6,942	MARRONE ORGANIC INNOVATIONS, INC.	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING MARRONE INSECTICIDES FOR FRUIT CROP IPM
206	\$20,000	GREAT LAKES FISHERY TRUST	Bence, James	FISHERIES AND WILDLIFE	FEASIBILITY OF REHABILITATING AND SUPPLEMENTING FISHERIES BY STOCKING LAKE WHITEFISH IN THE UPPER GREAT LAKES
207	\$86,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Hayes, Daniel	FISHERIES AND WILDLIFE	POPULATION DYNAMICS AND ASSESSMENT IN MICHIGAN INLAND LAKES AND STREAMS. DR. HAYES PERM SALARY FOR FY 2019.
208	\$36,820	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Infante, Dana	FISHERIES AND WILDLIFE	INVESTIGATION OF WATERSHED INFLUENCES, RIPARIAN CONDITION, AND INSTREAM HABITAT DYNAMICS ON STREAM FISH COMMUNITIES: DR. INFANTE PERM AGREEMENT FY 2019
209	\$122,763	US GEOLOGICAL SURVEY	Jones, Michael	FISHERIES AND WILDLIFE	RESEARCH, MANAGEMENT AND COMMUNICATION PERTAINING TO POPULATION GENETICS, CONSERVATION GENETICS AND BIODIVERSITY OF AQUATIC SPECIES WITHIN THE GREAT LAKES BASIN.
210	\$38,111	GREAT LAKES FISHERIES COMMISSION	Li, Weiming	FISHERIES AND WILDLIFE	JOHN HUME PERM AGREEMENT JANUARY 2019 - DECEMBER 2021.
211	\$74,211	GREAT LAKES FISHERY TRUST	Li, Weiming	FISHERIES AND WILDLIFE	CHARACTERIZATION OF OLFACTORY IMPRINTING TO INFORM RESTORATION OF LAKE STURGEON IN THE GREAT LAKES
212	\$50,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Porter, William	FISHERIES AND WILDLIFE	MANAGEMENT OF CHRONIC WASTING DISEASE
213	\$43,486	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Porter, William	FISHERIES AND WILDLIFE	EVALUATING THE IMPACTS OF LANDSCAPE-LEVEL CHANGES ON THE ABUNDANCE AND DISTRIBUTION OF RECORD BOOK WHITE-TAILED DEER ACROSS A LARGE GEOGRAPHIC REGION
214	\$18,192	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Porter, William	FISHERIES AND WILDLIFE	INCREASING THE RESILIENCE OF WILDLIFE HABITAT INVESTMENTS BY CONSIDERING MULTIPLE PLAUSIBLE SCENARIOS
215	\$90,016	GREAT LAKES FISHERIES COMMISSION	Robinson, John	FISHERIES AND WILDLIFE	ENVIRONMENTAL, BIOTIC, AND SAMPLING EFFECTS ON GENETIC ESTIMATES OF ADULT SEA LAMPREY ABUNDANCE IN GREAT LAKES TRIBUTARIES
216	\$71,185	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	INTEGRATING INFORMATION TO MANAGE LANDSCAPES FOR FEATURED SPECIES

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
217	\$61,188	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	“WILDLIFE RESPONSES TO INNOVATIVE SILVICULTURAL APPROACHES IN NORTHERN HARDWOOD FORESTS OF MICHIGAN”
218	\$155,163	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	DEVELOPMENT AND IMPLEMENTATION OF CONSERVATION GENETIC INITIATIVES FOR MICHIGAN INLAND AND GREAT LAKES FISHERIES AND AQUATIC WILDLIFE SPECIES. DR. SCRIBNER PERM SALARY FOR FY2018.
219	\$35,671	US GEOLOGICAL SURVEY	Scribner, Kim	FISHERIES AND WILDLIFE	GENETIC ESTIMATION OF NUMBER AND ORIGIN OF SPAWNING LAKE STURGEON CONTRIBUTING TO LARVAE IN THE ST. CLAIR AND DETROIT RIVERS, MI
220	\$212,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Walters, Michael	FORESTRY	HARDWOOD REGENERATION - SILVICULTURAL APPROACHES FOR PROMOTING DIVERSITY AND SUSTAINABILITY IN MICHIGAN'S NORTHERN HARDWOOD FORESTS
221	\$112,909	NATIONAL SCIENCE FOUNDATION	Barry, Cornelius	HORTICULTURE ANR	NSF REU SITE: PLANT GENOMICS @ MSU
222	\$99,950	MICHIGAN TREE FRUIT COMMISSION	Einhorn, Todd	HORTICULTURE ANR	DEVELOPMENT OF PRECISION DECISION SUPPORT SYSTEMS TO PROTECT AND OPTIMIZE MICHIGAN TREE FRUIT PRODUCTION
223	\$468,495	USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE	Hayden, Zachary	HORTICULTURE MABR	SOIL HEALTH FOR INTENSIVE PRODUCTION: UNDERSTANDING AND ADDRESSING KEY CONSTRAINTS FOR VEGETABLE SYSTEMS ON SANDY SOILS
224	\$155,785	GREAT LAKES FISHERIES COMMISSION	Nair, Muraleedharan	HORTICULTURE ANR	BIOASSAY DIRECTED ISOLATION AND CHARACTERIZATION OF A NATURAL SEA LAMPREY DETERRENT- PHASE II
225	\$82,813	MICH STATE HORTICULTURAL SOCIETY	Vannocker, Steven	HORTICULTURE ANR	IDENTIFICATION OF SUPERIOR APPLE CULTIVARS FOR NOVEL APPLICATIONS IN MICHIGAN
226	\$36,682	DUKE UNIVERSITY	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT. SCI.	MANAGING METAPOPOPULATIONS OF THREATENED SPECIES ACROSS JURISDICTIONAL BOUNDARIES: QUANTIFYING EFFECTS OF CLIMATE CHANGE, ENVIRONMENTAL SYNCHRONY, DISPERSAL, AND CORRIDORS
227	\$30,000	WILBURFORCE FOUNDATION	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT. SCI.	VISION FOR CONSERVATIONCORRIDOR.ORG, 2019
228	\$2,000,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Smith, George	MSU AGBIORESEARCH DIR OFC	MICHIGAN ALLIANCE FOR ANIMAL AGRICULTURE 2019

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
229	\$50,000	CORN MARKETING PROGRAM OF MICHIGAN	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	EPIDEMIOLOGY AND MANAGEMENT OF TAR SPOT
230	\$36,000	OHIO STATE UNIVERSITY	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CHARACTERIZATION OF PHYTOPHTHORA SOJAE AND PHYTOPHTHORA SANSOMEANA POPULATIONS IN THE NORTH CENTRAL REGION AND AN ASSESSMENT OF MANAGEMENT STRATEGIES
231	\$52,024	POTATOES USA	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	NATIONAL CHIP PROCESSORS TRIAL
232	\$20,000	GOLF COURSE SUPERINTENDENTS ASSN	Merewitz Holm, Emily	PLANT SOIL AND MICROBIAL SCIENCES	SOIL WATER CONTENT AND ETHYLENE EFFECTS ON ANNUAL BLUEGRASS ACCLIMATION TO AND SURVIVAL OR WINTER
233	\$56,878	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING SOFT WINTER WHEAT VARIETIES FOR MICHIGAN 2019
MICHIGAN STATE UNIVERSITY EXTENSION					
234	\$24,789	TEXAS A & M	Loveridge, Scott	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	MAPPING ECONOMIC OPPORTUNITY IN RURAL AMERICA: MINING BIG DATA FOR DECISION MAKING IN BUSINESS DEVELOPMENT
235	\$60,983	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Lupi, Frank	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	SOCIAL AND ECONOMIC BENEFITS AND COSTS OF ELK IN MICHIGAN
236	\$128,478	ARIZONA STATE UNIVERSITY	Rowntree, Jason	ANIMAL SCIENCE DEPARTMENT ANR	MOA#2 - ADAPTIVE MULTI-PADDOCK (AMP) GRAZING MODULE 7 & 8
237	\$25,000	PURDUE UNIV	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EAB UNIVERSITY: WEB-BASED SEMINARS PROVIDING INFORMATION ON EAB AND EMERGING INVASIVE FOREST HEALTH ISSUES TO EASTERN/MIDWESTERN FORESTS
238	\$9,550	AMER FLORAL ENDOWMENT	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BIORATIONAL TREATMENTS FOR THRIPS IN GREENHOUSES
239	\$141,827	RUTGERS UNIVERSITY	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PROTECTING POLLINATORS WITH ECONOMICALLY FEASIBLE AND ENVIRONMENTALLY SOUND ORNAMENTAL HORTICULTURE
240	\$95,466	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Anderson, Eric	EXTENSION AGRICULTURE AND AGRIBUSINESS	EFFECTIVE NITROGEN MANAGEMENT IN CORN- MSU EXTENSION FIELD CROPS TEAM
241	\$130,000	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	Baas, Dean	EXTENSION AGRICULTURE AND AGRIBUSINESS	2019 - 2020 MICHIGAN SUSTAINABLE AGRICULTURE PLAN OF WORK
242	\$7,252	NORTH DAKOTA STATE UNIVERSITY	Baas, Dean	EXTENSION AGRICULTURE AND AGRIBUSINESS	IDENTIFYING SPRING MALTING BARLEY VARIETIES ADAPTED TO THE EASTERN US

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
243	\$9,921	ORGANIC FARMERS OF MICHIGAN LLC	Baas, Dean	EXTENSION AGRICULTURE AND AGRIBUSINESS	ORGANIC SOYBEAN VARIETY TRIALS
244	\$36,852	MICH 4-H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	RG074651 2ND QTR BILLING
245	\$18,448	MICH 4-H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	FY2017-18 SUBSIDY FOR VOLUNTEER TRAINING
246	\$6,461	MICH 4-H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	07/2018 - 12/2018 GIFTS RECEIVED RG100163
247	\$10,000	INDIAN LAND TENURE FOUNDATION	Ivan, David	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	FRTEP PROGRAMMING ON THE RESERVATION OF BAY MILLS AND UPPER PENINSULA BANDS
248	\$16,750	MICH STATE HOUSING DEVELOPMENT AUTHORITY	Ivan, David	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	EDUCATION/WORKSHOPS ON MICHIGAN PROSPERITY REGIONS
249	\$48,791	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	STEWARDSHIP MOTIVATIONS AND A COLLABORATIVE GOVERNANCE MODEL FOR GREAT LAKES COASTAL-BASED WILDLIFE MANAGEMENT AREAS FOR WATERFOWL HUNTING, BIRD WATCHING, AND COMMUNITY DEVELOPMENT
250	\$25,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	HUMAN DIMENSIONS OF COASTAL HAZARDS AND RESOURCE MANAGEMENT
251	\$140,995	MICHIGAN UNIVERSITY OF	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	MSG EXTENSION (OMNIBUS)
252	\$35,135	MICHIGAN UNIVERSITY OF	Triezenberg, Heather	FISHERIES AND WILDLIFE MSUE	CLIMATE RESILIENCE FROM THE YOUTH UP: A PLACE-BASED STRATEGY UNITING HIGH SCHOOL STUDENTS, EDUCATORS, SCIENTISTS, RESIDENTS, COMMUNITY ORGANIZATIONS, AND MUNICIPALITIES IN SOUTHEAST MICHIGAN
253	\$13,875	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Stelter, Gretchen	MSUE DIRECTORS OFFICE	SHAWONO/MDHHS/MICHIGAN REHABILITATIVE SERVICES (MRS) CLASSES FOR RESIDENCE
254	\$380,000	US DEPT AGRICULTURE	Dolan, Kirk	FOOD SCIENCE AND HUM NUTRITION ANR	IMPROVING THE CONSUMER QUALITY OF ORGANIC DRY BEANS THROUGH PLANT GENETIC IMPROVEMENTS AND INNOVATIVE PROCESSING METHODS
255	\$45,000	MICH STATE HOUSING DEVELOPMENT AUTHORITY	Tobe, Erica	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	FY18 SUPPLEMENTAL COMPREHENSIVE HOUSING COUNSELING GRANT
256	\$94,195	BAY MILLS COMMUNITY COLLEGE	Cudney, Patrick	MSUE DIRECTORS OFFICE	MICHIGAN INDIAN COUNTRY EXTENSION INITIATIVE

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
257	\$20,227	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Badra, Peter	NATURAL FEATURES INVENTORY MSUE	13 - DNR OGL ECOLOGICAL SURVEYS AND ASSESSMENTS TO FACILITATE RESTORATION ACTIVITIES AT THE SALT RIVER MARSH 2019
258	\$12,737	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Badra, Peter	NATURAL FEATURES INVENTORY MSUE	12 - DNR OGL INCORPORATING RARE AQUATIC SPECIES OCCURRENCE DATA INTO MANAGEMENT 2019
259	\$247,110	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	2 - MI DNR WLD INTEGRATED INVENTORY 2019
260	\$50,835	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	5 - DNR WD PRESCRIBED FIRE NEEDS ASSESSMENT 2019
261	\$21,506	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	11 - PRIORITIZATION OF THREE REMOTE ISLANDS FOR NATURAL COMMUNITY SURVEYS 2019
262	\$20,000	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	8 - NATURAL COMMUNITY SURVEYS OF FRD LANDS 2019
263	\$50,084	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Cuthrell, David	NATURAL FEATURES INVENTORY MSUE	4 - DNR WD CSWG POLLINATOR CONSERVATION THROUGH ENHANCEMENT OF MICHIGAN'S AND WISCONSIN'S GRASSLAND, PRAIRIE, AND SAVANNA HABITAT
264	\$392,618	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Klatt, Brian	NATURAL FEATURES INVENTORY MSUE	#1 CONSULTATION, ADMINISTRATION, AND DATABASE FOR MDNR 2019
265	\$15,337	US GEOLOGICAL SURVEY	Lee, Yu	NATURAL FEATURES INVENTORY MSUE	UNDERSTANDING AND ENHANCING CONNECTIVITY OF MICHIGAN'S EASTERN MASSASAUGA RATTLESNAKE POPULATIONS TO GUIDE MANAGEMENT AND CONSERVATION EFFORTS
266	\$51,491	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Lincoln, Jesse	NATURAL FEATURES INVENTORY MSUE	3 - DNR WD LAND MANAGEMENT CONSULTATION 2019
267	\$40,697	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Monfils, Michael	NATURAL FEATURES INVENTORY MSUE	14 - DNR OGL RESEARCH TO SUPPORT AN ADAPTIVE MANAGEMENT FRAMEWORK FOR CONTROLLING EUROPEAN FROG-BIT IN THE GREAT LAKES
268	\$79,430	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	Paskus, John	NATURAL FEATURES INVENTORY MSUE	17 - ST. MARY'S RIVER ATLAS PROJECT 2018
269	\$92,440	CELERY RESEARCH INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATING INSECT AND DISEASE STRATEGIES TO ADVANCE CELERY FIELD MANAGEMENT
270	\$93,837	MICH VEGETABLE COUNCIL	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	OPTIMIZING PRODUCTION OF PROCESSING SQUASH WITH INCREASED QUALITY AND DISEASE RESISTANCE
271	\$166,007	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	PHOSPHORUS USE EFFICIENCY AND GUIDELINES FOR MICHIGAN POTATO PRODUCTION

**Gift, Grant and Contract Report
Board Of Trustees
April 2019**

	Amount	Donor	Director	Unit	Purpose
272	\$101,897	MICHIGAN FITNESS FOUNDATION	Beyea, Wayne	SCHL OF PLANNING,DESIGN&CNS T-MSUE	SAFE ROUTES TO SCHOOL (SRTS) - FY19
VICE PRES RESEARCH AND GRADUATE STUDIES					
273	\$89,161	BLUE CUBE OPERATIONS LLC	Henton, Daniel	ASSOCIATE VICE PRESIDENT FOR RESEARCH	4THGEN REFRIGERANT PROPOSAL
274	\$10,292,558	UNIV OF WISCONSIN - MADISON	Hegg, Eric	GREAT LAKES BIOENERGY RESEARC CTR VPRGS	GREAT LAKES BIOENERGY RESEARCH CENTER
275	\$30,000	AITCH FOUNDATION	Gage, Douglas	RESEARCH & GRADUATE STUDIES VICE PRES	GIFT TO SUPPORT THE WORK OF AN MSU GRAD STUDENT DOING RESEARCH FOCUSED ON THE EARLY DETECTION OF CANCER.
VICE PRES FOR STUDENT AFFAIRS & SERVICES					
276	\$12,500	INGHAM COUNTY	Rosen, Holly	STUDENT AFFAIRS & SERVICES VICE PRES	SHELTER, ADVOCACY AND SUPPORT FOR DOMESTIC VIOLENCE SURVIVORS
GRADUATE SCHOOL DEAN					
277	\$1,364,000	NATIONAL SCIENCE FOUNDATION	Stoddart, Judith	GRADUATE SCHOOL DEAN	GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP)
ADMINISTRATIVE SERVICES					
278	\$1,955,279	VARIOUS DONORS	Udpa, Satish	MSU FOUNDATION	QUARTERLY GIFT/GRANT TRANSFERS OCTOBER 1, 2018- DECEMBER 31, 2018
Various					
279	\$193,214	VARIOUS	Various	Various	82 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES LESS THAN \$5000. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION
	\$75,206,743	Total April 2019 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
April 12, 2019

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Equipment & supplies Nordsen Yes Tec 3-Roll Mill MPM Screen Printer PVA Dispenser Parstat 2273 Mass flowmeters/controllers Misc. supplies	Aptiv PLC	Chemical Engineering & Material Science	\$139,110.00	Faculty research
2	Large collection early to mid-century tableware, lighting, implements, measures, furniture, oil paintings & decorative arts	Dr. Morley Biesman	MSU Museum	\$99,980.00	Research & display
3	Air transportation	Dempsey Ventures, LLC	Intercollegiate Athletics Spartan Fund	\$60,297.50	Recruiting trips for Coach Izzo, Coach Fife, Coach Garland & Coach Stephens
4	Papers of Dr. Clifton R. Warton Jr. and Dolores D. Warton	Clifton R Warton Jr. Dolores D. Warton	University Archives & Historical Collections	\$37,675.00	Research & special collections
5	Comic book collection (6740)	Craig Kunaschk	Libraries Comic Art Exp Fund	\$32,000.00	Research & special collections
6	Air transportation	Quantum Ventures Bob Skandalaris	Intercollegiate Athletics Spartan Fund	\$31,219.90	Women's Golf training in Sarasota/Bradenton, Florida
7	Rug weaving loom & shuttle 132 rugs & related textile objects	Dr. Yvonne Lockwood	MSU Museum	\$21,710.00	Research & display

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
8	Stef Driesen (Belgian, born 1966) <i>Untitled</i> , 2017 Oil on canvas 78-1/4 x 70-7/8 inches	Steve Shane	Eli & Edythe Broad Art Museum	\$16,000.00	Donation to the Eli & Edythe Broad Art Museum
9	Equipment 1 - 54820A Agilent Oscilloscope 2 - ST series Newport Smart Table with Auto Tuning Damping	US Air Force	Chemistry	\$15,280.00	STEM education
10	Cultural, sociological & anthropological books	Yvonne Lockwood	Libraries	\$14,950.00	Research & special collections
11	Printer and copy proofs of original <i>Classics Illustrated</i> comics.	Terry Malone	Libraries Comic Art Exp Fund	\$13,730.00	Research & special collections
12	Steinway upright grand piano	Marilyn Frye	College of Music	\$5,000.00	Community Music School
13	18 th & 19 th Centuries collection of early American furniture & decorative arts	Dr. James & Rachel Votruba	MSU Museum	\$5,000.00	Research & display
14	18 th & 19 th Centuries collection of early American lighting	Dr. James & Rachel Votruba	MSU Museum	\$5,000.00	Research & display
15-51	Various	Various	Various	\$35,118.31	37 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	\$532,070.71	