

MICHIGAN STATE
UNIVERSITY

January 25, 2021

APPROVED
FEBRUARY 12, 2021
BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY

MEMORANDUM

TO: Members of the Board of Trustees

FROM: Douglas A. Gage, Interim 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 November 17, 2020 through January 15, 2021. The report is a compilation of 419 Gifts, Grants and Contracts plus 26 Consignment/Non-Cash Gifts, with a total value of \$96,029,816.

FY 2020-21 TOTALS:

- | | |
|---|---------------|
| a) Gifts, Grants and Contracts only: | \$468,674,302 |
| b) Gifts, Grants and Contracts plus Consignments:
(Consignments are Non-Cash Gifts and Non-Cash Loans) | \$471,588,641 |



Office of
**RESEARCH &
INNOVATION**

RESOLUTION:

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

Douglas A. Gage, Ph.D.
Interim Vice President

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Current Period / Year to Date

Gift & Grant Awards

Meeting Date: 02/12/2021

Current Period: Nov 17, 2020 - Jan 15, 2021

AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$46,749,768	\$260,693,710	87.6%
State of Michigan	\$1,455,449	\$5,245,763	1.8%
Other	\$2,683,775	\$11,206,047	3.8%
Industry/CO	\$1,373,839	\$4,429,163	1.5%
Foundation	\$5,378,034	\$14,363,820	4.8%
Association	\$634,083	\$1,778,872	0.6%
Research - Total	\$58,274,948	\$297,717,377	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$5,978,610	\$47,547,869	27.8%
State of Michigan	\$691,074	\$35,432,734	20.7%
Other	\$1,818,157	\$14,398,044	8.4%
Industry/CO	\$418,548	\$2,187,774	1.3%
Foundation	\$1,437,365	\$7,834,964	4.6%
Association	\$12,000	\$150,470	0.1%
Various Donors - Advancement	\$27,239,481	\$63,405,070	37.1%
Non-Research - Total	\$37,595,235	\$170,956,926	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$52,728,378	\$308,241,579	65.8%
State of Michigan	\$2,146,523	\$40,678,497	8.7%
Other	\$4,501,932	\$25,604,092	5.5%
Industry/CO	\$1,792,387	\$6,616,937	1.4%
Foundation	\$6,815,399	\$22,198,784	4.7%
Association	\$646,083	\$1,929,342	0.4%
Various Donors - Advancement	\$27,239,481	\$63,405,070	13.5%
TOTAL	\$95,870,183	\$468,674,302	100%

OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	137	789	55.4%
State of Michigan	22	53	3.7%
Other	39	195	13.7%
Industry/CO	29	147	10.3%
Foundation	11	61	4.3%
Association	93	179	12.6%
Research - Total	331	1,424	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	32	176	40.0%
State of Michigan	8	29	6.6%
Other	13	81	18.4%
Industry/CO	11	71	16.1%
Foundation	22	70	15.9%
Association	1	10	2.3%
Various Donors - Advancement	1	3	0.7%
Non-Research - Total	88	440	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	169	965	51.8%
State of Michigan	30	82	4.4%
Other	52	276	14.8%
Industry/CO	40	218	11.7%
Foundation	33	131	7.0%
Association	94	189	10.1%
Various Donors - Advancement	1	3	0.2%
TOTAL	419	1,864	100%

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 02/12/2021

Current Period: Nov 17, 2020 - Jan 15, 2021

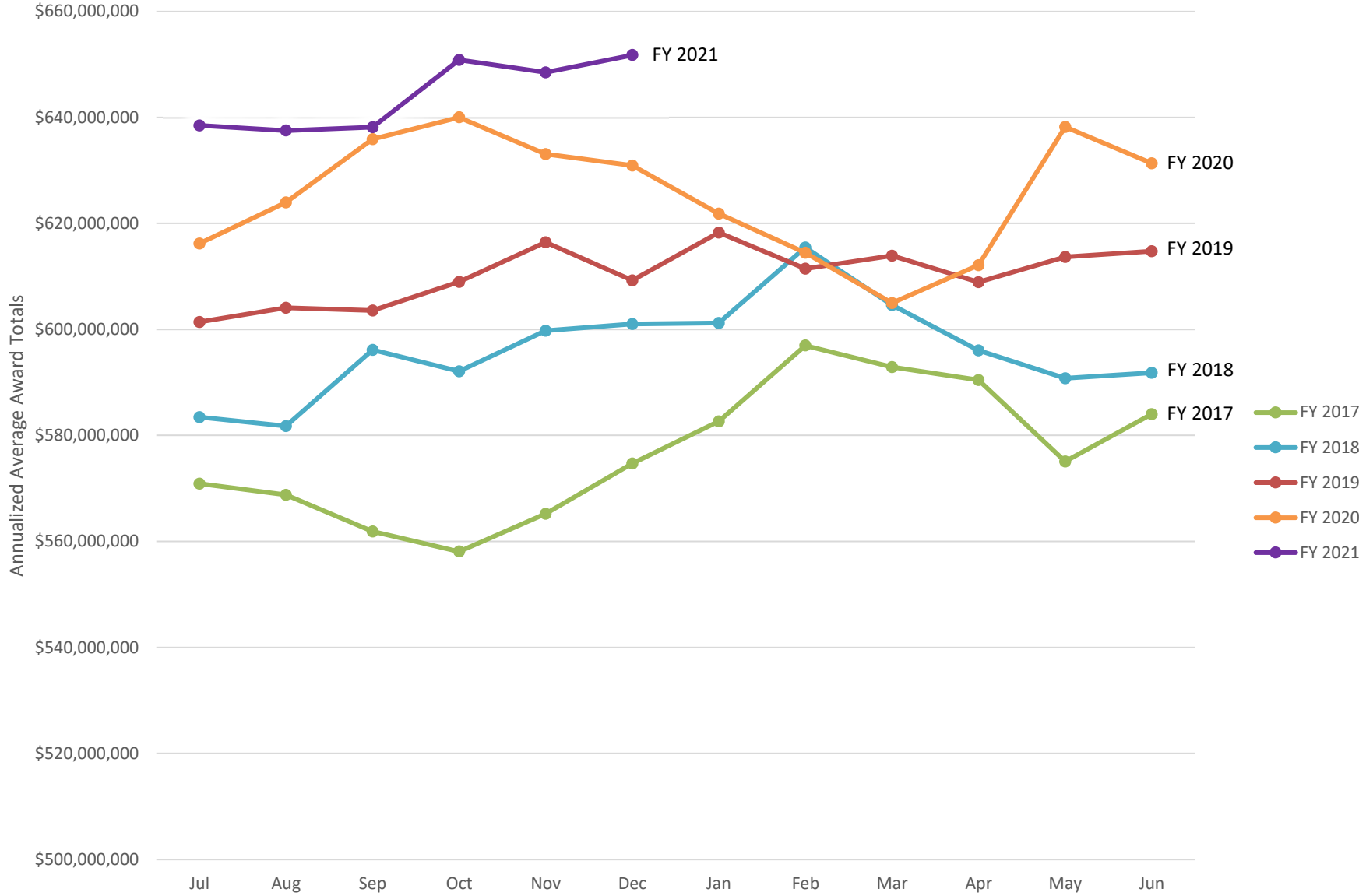
AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$216,496,177	\$260,693,710	20.4%
State of Michigan	\$7,370,970	\$5,245,763	-28.8%
Other	\$14,422,790	\$11,206,047	-22.3%
Industry/CO	\$7,304,204	\$4,429,163	-39.4%
Foundation	\$22,928,721	\$14,363,820	-37.4%
Association	\$2,110,768	\$1,778,872	-15.7%
Research - Total	\$270,633,630	\$297,717,377	10.0%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$36,240,688	\$47,547,869	31.2%
State of Michigan	\$6,615,334	\$35,432,734	435.6%
Other	\$21,505,634	\$14,398,044	-33.0%
Industry/CO	\$4,978,526	\$2,187,774	-56.1%
Foundation	\$6,568,023	\$7,834,964	19.3%
Association	\$306,388	\$150,470	-50.9%
Various Donors - Advancement	\$74,266,880	\$63,405,070	-14.6%
Non-Research - Total	\$150,481,473	\$170,956,926	13.6%
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	\$252,736,865	\$308,241,579	22.0%
State of Michigan	\$13,986,304	\$40,678,497	190.8%
Other	\$35,928,424	\$25,604,092	-28.7%
Industry/CO	\$12,282,730	\$6,616,937	-46.1%
Foundation	\$29,496,744	\$22,198,784	-24.7%
Association	\$2,417,155	\$1,929,342	-20.2%
Various Donors - Advancement	\$74,266,880	\$63,405,070	-14.6%
TOTAL	\$421,115,103	\$468,674,302	11.3%

OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	762	789	3.5%
State of Michigan	71	53	-25.4%
Other	252	195	-22.6%
Industry/CO	212	147	-30.7%
Foundation	90	61	-32.2%
Association	99	179	80.8%
Research - Total	1,486	1,424	-4.2%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	155	176	13.5%
State of Michigan	43	29	-32.6%
Other	76	81	6.6%
Industry/CO	132	71	-46.2%
Foundation	76	70	-7.9%
Association	14	10	-28.6%
Various Donors - Advancement	3	3	0.0%
Non-Research - Total	499	440	-11.8%
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	917	965	5.2%
State of Michigan	114	82	-28.1%
Other	328	276	-15.9%
Industry/CO	344	218	-36.6%
Foundation	166	131	-21.1%
Association	113	189	67.3%
Various Donors - Advancement	3	3	0.0%
TOTAL	1,985	1,864	-6.1%

Michigan State University 3 Year Annualized Average Awards



Top 10 Awards for the February 12, 2021 BOT Meeting

Rank	Sponsor Type	Award Amount	Principal Investigator	Sponsor	Department	New or Modification	Award Activity Type	Project Dates	Project Title
1	Federal Government	\$9,500,000	Thomas Glasmacher	US Dept of Energy	FACILITY FOR RARE ISOTOPE BEAMS	Modification	Research	03/15/2018 01/14/2023	Facility for Rare Isotope Beams Transition to Operation and Operation as Scientific User Facility
2	Federal Government	\$5,300,000	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)
3	Foundation	\$4,975,000	Douglas Gage	Michigan State Univ Foundation	RESEARCH AND INNOVATION SVP	New	Research	07/01/2020 06/30/2021	VP Research Discretionary Funding & Internal Grant Awards (RG101471)
4	Federal Government	\$4,500,000	Bradley Sherrill	National Science Foundation	NATL SUPERCONDUCTING CYCLOTRON LAB	Modification	Research	10/01/2016 09/30/2021	Operation of the NSCL as a National User Facility & Research Program
5	Federal Government	\$2,320,000	Barry Pittendrigh	US Agency for Intl Development	MSU AGBIORESEARCH DIR OFC	Modification	Research	08/23/2018 08/22/2023	Feed the Future Innovation Lab for Legume Systems Research (ILSR)
6	Federal Government	\$2,000,000	Gregory Severin	US Dept of Energy	FACILITY FOR RARE ISOTOPE BEAMS	New	Research	09/15/2020 09/14/2021	Accelerator Improvement Project: Isotope Harvesting at FRIB
7	Federal Government	\$1,439,907	Terrie Taylor	National Inst of Health	OSTEOPATHIC MEDICAL SPECIALTIES COM	Modification	Research	12/12/2016 11/30/2023	Treating Brain Swelling In Pediatric Cerebral Malaria
8	Other	\$1,132,075	Susanne Elkins	Corp for Public Broadcasting	BROADCASTING SERVICES	New	Public Service	10/01/2020 09/30/2022	Unrestricted 2020-22 CSG grant for WKAR-TV
9	Federal Government	\$1,049,007	Katharine Strunk	Inst of Education Sciences	EDUCATION POLICY CENTER	Modification	Research	09/01/2019 08/31/2024	Evaluating Michigan's Early Literacy Law: Impacts, Implementation and Improving State Capacity
10	Federal Government	\$810,786	Richard Leach	Substance Abuse & Mental Health Services Administration	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	New	Education/Instruction	10/01/2020 09/30/2021	State Opioid Relief for Use Disorders
	TOTAL	\$33,026,775							

Gift, Grant and Contract Report
Board of Trustees
February 2021

	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
COLLEGE OF AGRICULTURE AND NAT RESOURCES					
1	\$43,000	WORLD BANK	Jin, Songqing	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ANALYTICAL WORK ON CLIMATE CHANGE AND AGRICULTURAL FACTOR MARKETS IN UKRAINE
2	\$500,000	FOREIGN AGRICULTURAL SERVICE	Maredia, Mywish	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ANALYTICS SUPPORT IN KENYA EAST AFRICA
3	\$14,066	GLOBAL ALLIANCE FOR IMPROVED NUTRITION	Nakasone, Eduardo	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	GLOBAL ALLIANCE FOR IMPROVED NUTRITION (RC108745)
4	\$165,869	RUTGERS UNIV	Reardon, Thomas	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	NIGERIA DATA COLLECTION ANALYSIS
5	\$99,962	KANSAS STATE UNIV	Bradford, Barry	ANIMAL SCIENCE DEPARTMENT ANR	ESTABLISHING THE VALUE OF ALFALFA WITH HIGHLY DIGESTIBLE FIBER
6	\$500,000	AGRICULTURE & FOOD RESEARCH INITIATIVE	Gondro, Cedric	ANIMAL SCIENCE DEPARTMENT ANR	MODELLING THE EFFECTS OF CLIMATE TO IMPROVE GENETIC EVALUATION AND PRODUCTION IN LIVESTOCK
7	\$11,704	COTTON INC	Lock, Adam	ANIMAL SCIENCE DEPARTMENT ANR	DETERMINING THE IMPACT OF COTTONSEED ON PRODUCTION RESPONSES OF LACTATING DAIRY COWS: A META-ANALYSIS
8	\$500,000	NATIONAL INST OF FOOD & AGRICULTURE	Lock, Adam	ANIMAL SCIENCE DEPARTMENT ANR	HARNESSING THE LIPOGENIC POTENTIAL OF OLEIC ACID TO MINIMIZE BODY WEIGHT LOSS AND MAXIMIZE LACTATION PERFORMANCE OF PERIPARTURIENT DAIRY COWS
9	\$138,116	BOOZ ALLEN HAMILTON INC	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	A COMBINED ELECTROCHEMICAL AND BIOLOGICAL BLACKWATER TREATMENT PROCESS
10	\$600,000	W K KELLOGG FOUNDATION	Pirog, Richard	DEPARTMENT OF COMMUNITY SUSTAINABILITY	STRENGTHENING COLLABORATION INFRASTRUCTURE FOR A RESILIENT GOOD FOOD SYSTEM: USING KEY LEVERAGE POINTS TO BUILD CAPACITY, EQUITY, AND POWER SHARING
11	\$90,900	ASSOC FOR STATE PUBLIC HEALTH NUTRITIONISTS	Shedd, Meagan	DEPARTMENT OF COMMUNITY SUSTAINABILITY	FARM TO ECE IMPLEMENTATION (FIG)
12	\$17,108	NORTH CAROLINA STATE UNIV	Chen, Zhongxiao	ENTOMOLOGY AGRICULTURE AND NATURAL RES	QUALITY ASSURANCE SERVICES AND SUPPORT FOR IR-4 MINOR USE PESTICIDES AT STATE FACILITIES IN NORTH CAROLINA AND ASSOCIATED LOCATIONS

Gift, Grant and Contract Report
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	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
13	\$137,903	NATIONAL RENEWABLE ENERGY LAB	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BIO-INSECTICIDES FROM THERMOCHEMICAL BIOMASS CONVERSION
14	\$10,000	NATIONAL GRAPE COOPERATIVE ASSOC	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGING PRIORITY INSECT PESTS OF MICHIGAN JUICE GRAPE VINEYARDS
15	\$29,412	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Milbrath, Meghan	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MICHIGAN MANAGED POLLINATOR PROTECTION PLAN
16	\$17,000	UNIVERSITY OF KENTUCKY	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SCN COALITION: REINFORCING AND MAINTAINING LOCAL EFFORTS AND SUSTAINABLE YIELDS
17	\$17,942	EXTENSION FOUNDATION	Stone, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	2021 PESTICIDE SAFETY EDUCATION FUNDS MANAGEMENT PROGRAM
18	\$261,819	UNIVERSITY OF WISCONSIN	Walker, Edward	ENTOMOLOGY AGRICULTURE AND NATURAL RES	THE UPPER MIDWESTERN REGIONAL CENTER OF EXCELLENCE IN VECTOR-BORNE DISEASE
19	\$30,000	MICHIGAN TREE FRUIT COMMISSION	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEVELOPING A MEANS TO ASSESS AND REDUCE THE CARBON FOOTPRINT OF MICHIGAN ORCHARD PRODUCTION SYSTEMS
20	\$17,000	SYNGENTA CROP PROTECTION INC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING SYNGENTA INSECTICIDES FOR TREE FRUIT IPM
21	\$31,400	SYNGENTA CROP PROTECTION INC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING SYNGENTA INSECTICIDES FOR TREE FRUIT IPM
22	\$163,252	MICHIGAN DEPT OF NATURAL RESOURCES	Bence, James	FISHERIES AND WILDLIFE	USING POPULATION AND COMMUNITY DYNAMIC MODELS AND QUANTITATIVE FISHERIES ANALYSIS TO PROMOTE IMPROVED FISHERIES MANAGEMENT IN THE GREAT LAKES. DR. JAMES BENCE PERM AGREEMENT FOR FY2020
23	\$21,309	MICHIGAN DEPT OF NATURAL RESOURCES	Bence, James	FISHERIES AND WILDLIFE	QUANTITATIVE SUPPORT FOR INTER-JURISDICTIONAL FISHERIES MANAGEMENT ON THE GREAT LAKES
24	\$38,651	MICHIGAN DEPT OF NATURAL RESOURCES	Bremigan, Mary	FISHERIES AND WILDLIFE	PERM: DEVELOPING DECISION TOOLS FOR INLAND LAKE MANAGEMENT THROUGH FIELD SAMPLING AND STATISTICAL MODELS LINKING LAKES TO LANDSCAPE CONTEXT. DR. MARY BREMIGAN PERM AGREEMENT FOR FY 2020.

Gift, Grant and Contract Report
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	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
25	\$74,885	MICHIGAN DEPT OF NATURAL RESOURCES	Hayes, Daniel	FISHERIES AND WILDLIFE	POPULATION DYNAMICS AND ASSESSMENT IN MICHIGAN INLAND LAKES AND STREAMS. DR. HAYES PERM SALARY FOR FY 2020.
26	\$40,767	MICHIGAN DEPT 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
27	\$93,586	US FISH & WILDLIFE SERVICE	Infante, Dana	FISHERIES AND WILDLIFE	PHASE 2: BUILDING CAPACITY FOR MIDWEST GLACIAL LAKES PARTNERSHIP CONSERVATION
28	\$15,398	UNIVERSITY OF CALIFORNIA DAVIS	Loch, Thomas	FISHERIES AND WILDLIFE	ANTIGENIC PROFILING OF DISTINCT FLAVOBACTERIUM COLUMNARE GENETIC GROUPS AFFECTING CULTURED FISH SPECIES FOR VACCINE DEVELOPMENT
29	\$50,000	MICHIGAN DEPT OF NATURAL RESOURCES	Porter, William	FISHERIES AND WILDLIFE	MANAGEMENT OF CHRONIC WASTING DISEASE
30	\$661,992	PATH	Rose, Joan	FISHERIES AND WILDLIFE	TRACKING COVID IN WASTEWATER: A GLOBAL DATA CENTER
31	\$30,779	MICHIGAN DEPT 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 2020.
32	\$71,322	MICHIGAN DEPT OF NATURAL RESOURCES	Roth, Brian	FISHERIES AND WILDLIFE	USING INNOVATIVE ENGINEERING APPROACHES TO ATTEMPT ERADICATION OF RED SWAMP CRAYFISH IN MICHIGAN
33	\$153,440	MICHIGAN DEPT 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.
34	\$20,000	MICHIGAN DEPT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	TO EXPAND BASELINE GENETIC DATABASES AND TO CONDUCT MOLECULAR GENETIC ANALYSES.
35	\$68,181	GREAT LAKES FISHERY COMMISSION	Vandergoot, Christopher	FISHERIES AND WILDLIFE	LAKE STURGEON MIGRATION PHENOLOGY IN HURON ERIE CORRIDOR AND SURROUNDING WATERS
36	\$55,152	GREAT LAKES FISHERY COMMISSION	Wagner, Michael	FISHERIES AND WILDLIFE	SITING AND APPLICATION CRITERIA FOR PUSH CONFIGURATION OPEN-WATER TRAPPING OF SEA LAMPREY IN RIVERS
37	\$56,466	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	CHRONIC WASTING DISEASE DEER MOVEMENT STUDY
38	\$50,902	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	INFLUENCE OF DEER HARVEST REGULATIONS ON ANTLERLESS HARVEST, ABUNDANCE, AND SEX AND AGE COMPOSITION: IMPLICATIONS FOR MANAGING DEER IN THE FACE OF CHRONIC WASTING DISEASE
39	\$207,000	MICHIGAN DEPT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	WILDLIFE AND RECREATIONAL VALUE OF CREATED AND ENHANCED WETLANDS IN MICHIGAN
40	\$248,615	NORTH DAKOTA STATE UNIV	Bergholz, Teresa	FOOD SCIENCE AND HUM NUTRITION ANR	KILLING BEFORE MILLING: UTILIZATION OF VACUUM STEAM PASTEURIZATION FOR CONTROLLING ENTERIC PATHOGENS ON WHEAT

Gift, Grant and Contract Report
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	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
41	\$10,000	MICHIGAN STATE MILLERS ASSOC	Ng, Perry	FOOD SCIENCE AND HUM NUTRITION ANR	MSU WHEAT QUALITY TESTING PROGRAM
42	\$65,901	FOREIGN AGRICULTURAL SERVICE	Song, Won	FOOD SCIENCE AND HUM NUTRITION ANR	CFP FY21 THAILAND MARKETING INGREDIENTS
43	\$143,000	TINKER FOUNDATION INC	Cooper, Lauren	FORESTRY	GOOD FOR FORESTS, GOOD FOR PEOPLE? ENABLING CONDITIONS FOR SCALABLE SUCCESS IN PERU'S CONDITIONAL DIRECT TRANSFERS PROGRAM
44	\$149,591	CLEMSON UNIV	Nejad, Mojgan	FORESTRY	LIGNIN FRACTIONATION AND VALORIZATION: FOCUSING ON BOTH VALUE AND QUALITY
45	\$30,000	MICHIGAN DEPT OF NATURAL RESOURCES	Randall, Jesse	FORESTRY	FOREST STEWARDSHIP PROGRAM - MODERNIZING THE MICHIGAN MASTER WOODLAND STEWARD CLASS
46	\$100,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Skole, David	FORESTRY	NEW TRANSITIONS IN SMALLHOLDER AGRICULTURAL SYSTEMS THAT PROMOTE INCREASED TREE COVER OUTSIDE OF FORESTS
47	\$38,624	ASIA PACIFIC NETWORK	Skole, David	FORESTRY	ECOSYSTEM-SERVICES MEASUREMENT AND MONITORING TOOLS SUPPORTING KPH AND COMMUNITY FOREST MANAGEMENT IN ACEH, INDONESIA
48	\$10,000	NATIONAL GRAPE COOPERATIVE ASSOC	Chaudhari, Sushila	HORTICULTURE ANR	SUPPORT OF VITICULTURE RESEARCH PROGRAM - SPECIFICALLY TARGETING HERBICIDES IN JUICE GRAPES.
49	\$10,000	STANLEY SMITH HORTICULTURAL TRUST	Getter, Kristin	HORTICULTURE ANR	MSU HORTICULTURE GARDENS OPERATING SUPPORT AND ADA WALKWAY COMPLIANCE
50	\$99,119	MICHIGAN APPLE COMMITTEE	Lang, Gregory	HORTICULTURE ANR	IMPLEMENTATION OF PRECISION DECISION SUPPORT SYSTEMS TO PROTECT AND OPTIMIZE MICHIGAN TREE FRUIT PRODUCTION
51	\$90,907	GREAT LAKES FISHERY COMMISSION	Nair, Muraleedharan	HORTICULTURE ANR	BIOASSAY DIRECTED ISOLATION AND CHARACTERIZATION OF A NATURAL SEA LAMPREY DETERRENT- PHASE II
52	\$500,000	NATIONAL INST OF FOOD & AGRICULTURE	Sabbatini, Paolo	HORTICULTURE ANR	INNOVATIVE CANOPY MANAGEMENT STRATEGIES TO IMPROVE GRAPE SPECIALIZED COLOR METABOLITES SYNTHESIS AND FRUIT QUALITY
53	\$9,536	MICHIGAN BEAN COMMISSION	Bales, Scott	PLANT SOIL AND MICROBIAL SCIENCES	VERIFICATION OF PROPOSED FERTILIZER FOR MICHIGAN DRY BEAN GROWERS
54	\$45,000	MICHIGAN SUGARBEET ADVANCEMENT	Bublitz, Daniel	PLANT SOIL AND MICROBIAL SCIENCES	SUGARBEET ADVANACMENT TO COVER SALARIES FOR SUGAR BEET ACADEMIC SPECIALIST
55	\$60,000	IOWA STATE UNIV	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	BIOLOGY AND MANAGEMENT OF SOYBEAN STEM DISEASES

Gift, Grant and Contract Report
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	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
56	\$23,000	CORN MARKETING PROGRAM OF MICHIGAN	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	EPIDEMIOLOGY AND DISEASE MANAGEMENT RESEARCH IN RESPONSE TO TAR SPOT, CAUSED BY THE EMERGING CORN PATHOGEN
57	\$59,117	FOREIGN AGRICULTURAL SERVICE	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	FY21BFPSRI LANKA#3(NADEEKA)LEAFCURL-MSU
58	\$10,000	MICHIGAN TURFGRASS FOUNDATION	Frank, Kevin	PLANT SOIL AND MICROBIAL SCIENCES	2020-21 TURFGRASS RESEARCH
59	\$6,000	CELERY RESEARCH INC	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	CELERY RESEARCH GENERAL SUPPORT 2021
60	\$85,398	GINSENG BOARD OF WISCONSIN	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	TESTING NEW AND NOVEL PRODUCTS TO STOP PHYTOPHTHORA ROT
61	\$91,577	MICHIGAN VEGETABLE COUNCIL	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	STRATEGIES ARE NEEDED TO PROTECT MICHIGAN'S CUCURBITS FROM FUNGICIDE RESISTANT DOWNY MILDEW
62	\$35,116	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN POTATO RESEARCH TECHNICIAN
63	\$27,666	MICHIGAN POTATO INDUSTRY COMMISSION	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN POTATO RESEARCH SALARY FUNDING
64	\$195,000	POTATOES USA	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	NATIONAL CHIP POTATO VARIETY COMMERCIALIZATION PROGRAM MANAGEMENT
65	\$91,729	UNIVERSITY OF CALIFORNIA DAVIS	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	NIFA-INTERNATIONAL WHEAT YIELD PARTNERSHIP PROGRAM (NIFA-IWYP)
66	\$22,680	MONSANTO CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	BAYER LOW TUNNEL TEST 2
67	\$22,680	MONSANTO CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	LOW TUNNEL TESTING
68	\$7,560	MONSANTO CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	TESTING OF COMPETITIVE SOYBEAN SYSTEMS COMPARISON
69	\$10,000	BAYER CROPSCIENCE	Thompson, Addie	PLANT SOIL AND MICROBIAL SCIENCES	HIGH-THROUGHPUT PREDICTION AND QUANTIFICATION OF TAR SPOT DISEASE IN MAIZE
70	\$260,000	NORTHWEST AGRICULTURE & FORESTRY UNIV	Tiedje, James	PLANT SOIL AND MICROBIAL SCIENCES	COMPARATIVE LOESS SOIL MICROBIOME PROJECT

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71	\$45,000	AGRICULTURAL RESEARCH SERVICE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	DISCOVER SOURCES, GENES, AND DEVELOP NEW VARIETIES AND GERMPLASM WITH IMPROVED MEAL PROTEIN AND AMINO ACIDS (MI)
72	\$205,881	MICHIGAN DEPT OF TRANSPORTATION	El-Gafy, Mohamed	SCHOOL OF PLANNING DES CONSTRUCTION ANR	TRAINING TOOLS FOR EFFECTIVE ADVANCEMENT OF DIGITAL TECHNOLOGIES FOR CONSTRUCTION FIELD OPERATIONS
COLLEGE OF ARTS AND LETTERS					
73	\$230,405	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	O'Rourke, Michael	AL RESEARCH AND SCHOLARSHIP	TOOLBOX WORKSHOPS FOR THE NASA HELIOPHYSICS DRIVE SCIENCE CENTER
74	\$100,000	NATIONAL SCIENCE FOUNDATION	O'Rourke, Michael	AL RESEARCH AND SCHOLARSHIP	ENHANCING THE PROCESS OF NETWORK-TO-NETWORK COLLABORATION: A TDI-FACILITATED PI MEETING FOR THE ACCELNET PROGRAM
75	\$12,500	AMERICAN INST OF INDIAN STUDIES	Keune, Jon	RELIGIOUS STUDIES	BHAKTI VIRTUAL ARCHIVE (BHAVA)
76	\$43,312	UNIVERSITY OF MICHIGAN	Khalil, Mohammad	RELIGIOUS STUDIES	DIGITAL ISLAMIC STUDIES CURRICULUM (DISC)
ELI BROAD COLLEGE OF BUSINESS					
77	\$98,550	US DEPT OF THE ARMY	Fraye, David	EXECUTIVE DEVELOPMENT PROGRAMS	ARMY WORKSPACE EXTENSION
78	\$73,501	US DEPT OF THE ARMY	Fraye, David	EXECUTIVE DEVELOPMENT PROGRAMS	ARMY WORKSPACE EXTENSION
79	\$75,000	MICHIGAN ECONOMIC DEVELOPMENT CORP	Kirca, Ahmet	INTERNATIONAL BUSINESS CENTER	MEDC INTERNATIONAL TRADE: REGIONAL EXPORT NETWORK 2017-2022 WITH ANNUAL EXTENSIONS: 2018-2019 (2/5 PERIOD) ORIGINAL MSU PROPOSAL #26894
80	\$59,175	MICHIGAN ECONOMIC DEVELOPMENT CORP	Kirca, Ahmet	INTERNATIONAL BUSINESS CENTER	MEDC MSF INTERNATIONAL TRADE: SMALL BUSINESS SERVICES 2017-2022 WITH ANNUAL EXTENSIONS: PERIOD 2018-2019 (2/5) ORIGINAL MSU PROPOSAL #26889.
81	\$199,053	NATIONAL SCIENCE FOUNDATION	Hollenbeck, John	MANAGEMENT	RAPID: THE CHANGING NATURE OF WORK: DYNAMIC RECONFIGURATION AND VISUALIZATION IN THE CONTEXT OF COVID-19 CONTACT TRACING
82	\$378,000	US ARMY RESEARCH INST FOR THE BEHAVIORAL & SOCIAL SCIENCES	Morgeson, Frederick	MANAGEMENT	LEADERSHIP AS EVENT MANAGEMENT: TOWARD A CONTEXTUALIZED AND DYNAMIC THEORY OF LEADERSHIP (DOMAINS 3 & 4)
COLLEGE OF COMMUNICATION ARTS SCIENCES					

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83	\$50,000	THE KAVLI FOUNDATION	Besley, John	ADVERTISING AND PUBLIC RELATIONS	BASIC SCIENCE COMMUNICATION LANDSCAPE REVIEW
84	\$162,472	UNIVERSITY OF PENNSYLVANIA	Sanders-Jackson, Ashley	ADVERTISING AND PUBLIC RELATIONS	PROJECT RESIST – INCREASING RESISTANCE TO TOBACCO MARKETING AMONG YOUNG ADULT SEXUAL MINORITY WOMEN USING INOCULATION MESSAGE APPROACHES
85	\$21,414	CORP FOR PUBLIC BROADCASTING	Elkins, Susanne	BROADCASTING SERVICES	2021 CPB INTERCONNECT GRANT FOR WKAR-TV
86	\$1,132,075	CORP FOR PUBLIC BROADCASTING	Elkins, Susanne	BROADCASTING SERVICES	UNRESTRICTED 2020-22 CSG GRANT FOR WKAR-TV
87	\$152,323	CORP FOR PUBLIC BROADCASTING	Elkins, Susanne	BROADCASTING SERVICES	UNRESTRICTED CSG FUNDING FOR WKAR RADIO 2020-22
88	\$56,254	CORP FOR PUBLIC BROADCASTING	Elkins, Susanne	BROADCASTING SERVICES	RESTRICTED CSG GRANT FOR WKAR RADIO 2020-22
89	\$62,341	CORP FOR PUBLIC BROADCASTING	Elkins, Susanne	BROADCASTING SERVICES	2020-22 USSG RURAL SERVICES GRANT FOR WKAR-TV
90	\$212,891	BROGAN & PARTNERS CONVERGENCE MARKETING	Turner, Shawn	COMMUNICATION	COVID AWARE COMMUNICATION PLAN
91	\$60,805	ANHEUSER BUSCH FOUNDATION	Martell, Dennis	COMMUNICATION ARTS AND SCIENCES DEAN	NATIONAL SOCIAL NORMS CENTER
COLLEGE OF EDUCATION					
92	\$466,666	MICHIGAN VIRTUAL UNIV	Beverly, Bryan	CED OUTREACH	INCLUSIVE TEACHING & LEARNING IN COVID
93	\$715,115	AMER COUNCILS FOR INTL EDUCATION	Beverly, Bryan	CED OUTREACH	AFGHAN UNIVERSITY STUDENT EXCHANGE PROGRAM (AUSEP)
94	\$69,996	MICHIGAN DEPT OF HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	INFANT AND EARLY CHILDHOOD MENTAL HEALTH CONSULTATION EVALUATION (ECMHC)
95	\$101,952	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	CHILDREN'S TRAUMA INITIATIVE (CTI)
96	\$35,616	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	LEVEL OF FUNCTIONING PROJECT

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97	\$88,824	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	PARENT SUPPORT PARTNER (PSP) EVALUATION
98	\$141,588	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	WRAPAROUND EVALUATION PROJECT
99	\$20,000	SOCIETY FOR THE STUDY OF SCHOOL PSYCHOLOGY	Dixson, Dante	COUNSELING, EDUC PSYCH & SPEC EDUC	CLASH OF PSYCHOSOCIAL TITANS: AN EXAMINATION OF THE UTILITY OF PSYCHOSOCIAL PERCEPTIONS FOR ACHIEVEMENT
100	\$14,502	MICHIGAN REHABILITATION SERVICES	Sung, Connie	COUNSELING, EDUC PSYCH & SPEC EDUC	PROJECT SEARCH: SUPPLEMENTAL PROGRAMS FOR ENHANCING TRASITION STUDENTS' SUCCESS - CONTINUATION/YEAR 3
101	\$215,340	US DEPT OF EDUCATION	Witmer, Sara	COUNSELING, EDUC PSYCH & SPEC EDUC	HYBRID INTERDISCIPLINARY TRAINING TO ADDRESS HIGH INTENSITY NEEDS OF STUDENTS WITH LEARNING DISABILITIES (PROJECT HI2LD)
102	\$15,000	SPENCER FOUNDATION	Floden, Robert	EDUCATION DEAN	DEANS' ALLIANCE RETREAT 2021
103	\$8,000	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
104	\$1,049,007	INST OF EDUCATION SCIENCES	Strunk, Katharine	EDUCATION POLICY CENTER	EVALUATING MICHIGAN'S EARLY LITERACY LAW: IMPACTS, IMPLEMENTATION AND IMPROVING STATE CAPACITY
105	\$25,000	INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS	Chambers, Terah	EDUCATIONAL ADMINISTRATION	MIDWEST AND PLAINS EQUITY ASSISTANCE CENTER: CIVIL RIGHTS TRAINING AND ADVISORY SERVICES-EQUITY ASSISTANCE CENTERS PROGRAM
106	\$48,000	NIKE INC	Kuenze, Christopher	KINESIOLOGY - ED	PRODUCTS AND SERVICES {NIKE TECHNOLOGIES AND MATERIALS}
COLLEGE OF ENGINEERING					
107	\$246,364	UNIVERSITY OF UTAH	Calabrese Barton, Scott	CHEMICAL ENGINEERING AND MATERIALS SCI	BIO-INSPIRED DESIGN OF ADAPTIVE CATALYSTS CASCADES
108	\$97,500	GREAT LAKES CRYSTAL TECHNOLOGIES INC	Garratt, Elias	CHEMICAL ENGINEERING AND MATERIALS SCI	DIAMOND MATERIALS FOR QUANTUM TECHNOLOGIES
109	\$69,000	NISSAN MOTOR CO	Nicholas, Jason	CHEMICAL ENGINEERING AND MATERIALS SCI	SILVER-BASED BRAZES WITH BUILT-IN ALUMINUM GETTERS
110	\$114,528	NATIONAL SCIENCE FOUNDATION	Zevalkink, Alexandra	CHEMICAL ENGINEERING AND MATERIALS SCI	CAREER: DECOUPLING STRUCTURE AND COMPOSITION WITH ZINTL POLYMORPHS

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111	\$12,000	INST FOR ENERGY INNOVATION	Anctil, Annick	CIVIL AND ENVIRONMENTAL ENGINEERING	MICHIGAN ENERGY STORAGE ROADMAP
112	\$21,998	GLOBAL ENERGY CREDIT LLC	Ghamami, Mehrnaz	CIVIL AND ENVIRONMENTAL ENGINEERING	WORCESTER REGIONAL TRANSIT AUTHORITY (WRTA) TRANSPORTATION-BASED COMMUNITY MICROGRID FEASIBILITY ASSESSMENT
113	\$109,845	LOS ALAMOS NATL LABORATORY	Murillo, Michael	COMPUTATIONAL MATH SCI AND ENGR EGR	MACHINE LEARNING IDENTIFICATION FOR KINETIC UPSCALING
114	\$30,000	ADVANCED RADIOLOGY SERVICES FOUNDATION	Ravishankar, Saiprasad	COMPUTATIONAL MATH SCI AND ENGR EGR	TOWARDS FASTER MRI WITH MACHINE LEARNING-BASED ACQUISITION AND RECONSTRUCTION PIPELINES
115	\$275,430	NATIONAL SCIENCE FOUNDATION	Bonakdarpour, Borzoo	COMPUTER SCIENCE AND ENGINEERING	SATC: CORE: SMALL: TECHNIQUES FOR SOFTWARE MODEL CHECKING OF HYPERPROPERTIES
116	\$165,442	NATIONAL INST OF HEALTH	Ghassemi, Mohammad	COMPUTER SCIENCE AND ENGINEERING	IPA ASSIGNMENT AGREEMENT - BRAIN DATA SCHOLAR
117	\$65,000	ROBERT BOSCH LLC RESEARCH & TECHNOLOGY CENTER	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	RESEARCH GIFT FROM BOSCH
118	\$140,000	US ARMY RESEARCH OFFICE	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	PERSON IDENTIFICATION AT A DISTANCE
119	\$278,916	NATIONAL SCIENCE FOUNDATION	Mutka, Matt	COMPUTER SCIENCE AND ENGINEERING	DR. MATT MUTKA - IPA ASSIGNMENT WITH THE NATIONAL SCIENCE FOUNDATION (NSF) CONTINUATION
120	\$176,163	NATIONAL SCIENCE FOUNDATION	Zeng, Huacheng	COMPUTER SCIENCE AND ENGINEERING	CAREER: MIMO-BASED BLIND INTERFERENCE CANCELLATION FOR WIRELESS NETWORKING
121	\$50,840	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER CENTER RENEWAL
122	\$50,000	FACEBOOK INC	Deb, Kalyanmoy	ELECTRICAL AND COMPUTER ENGINEERING	MOCA: MULTI-OBJECTIVE CO-EVOLUTIONARY LEARNING AGENTS
123	\$35,000	ASSOC OF AMER RAILROADS	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	INTEGRATED MULTI-WAVE HYBRID ELECTROMAGNETIC AND ULTRASONIC SENSING FOR REAL-TIME IN-MOTION RAILS FATIGUE AND FRACTURES DETECTION
124	\$496,475	US DEPT OF ENERGY	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	HIGH-ACCURACY AND HIGH-STABILITY FIBER-OPTIC TEMPERATURE SENSORS FOR COAL FIRED ADVANCED ENERGY SYSTEMS
125	\$300,368	NATIONAL INST OF HEALTH	McGough, Robert	ELECTRICAL AND COMPUTER ENGINEERING	FAST NUMERICAL MODELING OF MEDICAL ULTRASOUND FOR THERAPY AND IMAGING

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126	\$50,000	TCL RESEARCH AMERICA INC	Ren, Jian	ELECTRICAL AND COMPUTER ENGINEERING	GIFT FUND FOR COMPUTING AND MACHINE LEARNING RESEARCH
127	\$250,000	UNIVERSITY OF NEW MEXICO	Verboncoeur, John	ELECTRICAL AND COMPUTER ENGINEERING	EXPLORATION OF FUNDAMENTAL LIMITS TO HIGH POWER ELECTROMAGNETIC (HPEM) AMPLIFICATION
128	\$154,646	NATIONAL HEART LUNG & BLOOD INST	Aguirre, Aitor	INSTITUTE FOR QUANTITATIVE HEALTH	LIPID SIGNALING IN CARDIAC DEVELOPMENT AND DISEASE
129	\$163,700	OREGON STATE UNIV	Benard, Andre	MECHANICAL ENGINEERING	FRESHWATER RECOVERY SYSTEM FOR HYDRAULIC FRACTURING (FRESH-FRAC) USING A THERMALLY-ACTUATED NOZZLE-DEMISTER
130	\$91,000	LOS ALAMOS NATL LABORATORY	Jaberi, Farhad	MECHANICAL ENGINEERING	NUMERICAL SIMULATIONS OF SHOCK INTERACTIONS WITH MULTI-FLUID SHEAR TURBULENT FLOWS
131	\$344,007	NATIONAL SCIENCE FOUNDATION	Mukherjee, Ranjan	MECHANICAL ENGINEERING	ORBITAL STABILIZATION OF UNDERACTUATED SYSTEMS USING IMPULSIVE INPUTS
132	\$80,523	US ARMY RESEARCH OFFICE	Naguib, Ahmed	MECHANICAL ENGINEERING	SUPPLEMENTAL FUNDING: MECHANISMS OF FORCE AND MOMENT GENERATION BY THE FLOW OVER OSCILLATING RECTANGULAR CYLINDERS
133	\$82,525	US ARMY RESEARCH OFFICE	Zayernouri, Mohsen	MECHANICAL ENGINEERING	A STOCHASTIC FRACTIONAL MODELING FRAMEWORK FOR DESIGN OF NEW FUNCTIONAL MATERIALS
COLLEGE OF HUMAN MEDICINE					
134	\$7,560	SEATTLE GENETICS INC	Isaac, Daniel	CANCER CENTER	A STUDY OF ENFORTUMAB VEDOTIN (ASG-22CE) AS MONOTHERAPY OR IN COMBINATION WITH OTHER ANTICANCER THERAPIES FOR THE TREATMENT OF UROTHELIAL CANCER.
135	\$35,877	STEPHANIE H. & DAVID A. SPINA FAMILY FOUNDATION	Custack, Amy	CHM FLINT	FLINT KIDS BAKE: A HEALTHY BAKING PROGRAM JUST FOR KIDS
136	\$27,930	FLINT ODYSSEY HOUSE HEALTH AWARENESS CENTER	Furr-Holden, Debra	CHM FLINT	ENHANCED PARENTING PROJECT
137	\$87,597	UNIVERSITY OF MICHIGAN	Key, Kent	CHM FLINT	RECRUITING AND RETAINING OLDER AFRICAN AMERICANS INTO RESEARCH (ROAR)
138	\$14,449	PARTNERSHIP TO END ADDICTION	Ondersma, Steven	CHM FLINT	DEVELOPING A SCREENING AND BRIEF INTERVENTION PACKAGE TO ADDRESS SUBSTANCE USE RISK IN PREGNANT AND POSTPARTUM WOMEN IN HOME VISITING PROGRAMS
139	\$450,000	MERCY HEALTH SAINT MARYS	Dwyer, Jeffrey	CHM WEST MICHIGAN	MSU-ST. MARY'S TRANSLATIONAL MEDICINE IN GRAND RAPIDS

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140	\$315,879	NATIONAL INST OF HEALTH	Anthony, James (Jim)	EPIDEMIOLOGY AND BIOSTATISTICS	MINDING A MID-AMERICA GAP: NIDA/NIAAA EPIDEMIOLOGY RESEARCH TRAINING FOR CLINICAL RESEARCHERS AND CLINICIANS IN CURRENTLY UNDER-SERVED AREAS
141	\$20,000	UNIVERSITY OF MICHIGAN	Bender, Andrew	EPIDEMIOLOGY AND BIOSTATISTICS	MICHIGAN ALZHEIMER'S DISEASE CORE CENTER
142	\$20,000	UNIVERSITY OF MICHIGAN	Bender, Andrew	EPIDEMIOLOGY AND BIOSTATISTICS	CLAUDE D. PEPPER OLDER AMERICANS INDEPENDENCE CENTERS (OAICS)(P30)
143	\$26,373	US DEPT OF VETERANS AFFAIRS	Bohnert, Kipling	EPIDEMIOLOGY AND BIOSTATISTICS	KIPLING BOHNERT IPA - VA
144	\$32,239	CENTERS FOR DISEASE CONTROL & PREVENTION	Bohnert, Kipling	EPIDEMIOLOGY AND BIOSTATISTICS	BOHNERT IPA
145	\$35,439	UNIVERSITY OF CENTRAL FLORIDA	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	SOCIAL STRESSORS AND INFLAMMATION: A MIXED METHODS APPROACH TO PRETERM BIRTH
146	\$25,000	WAYNE STATE UNIV	Paneth, Nigel	EPIDEMIOLOGY AND BIOSTATISTICS	ECHO INITIATIVE YEAR 4
147	\$20,173	UNIVERSITY OF ALABAMA AT BIRMINGHAM	Vazquez, Ana	EPIDEMIOLOGY AND BIOSTATISTICS	TRANSLATIONAL GENOMICS OF HYPERURICEMIA
148	\$128,482	ARAB COMMUNITY CENTER FOR ECONOMIC & SOCIAL SERVICES	Arnetz, Bengt	FAMILY MEDICINE, DEPARTMENT OF	IMPACT OF EARNED INCOME TAX CREDIT RECEIPT ON REDUCING RISK FACTORS FOR AND ENHANCING PROTECTIVE FACTORS AGAINST ADVERSE CHILDHOOD EXPERIENCES
149	\$130,414	NATIONAL INST OF HEALTH	Cunningham, Natoshia	FAMILY MEDICINE, DEPARTMENT OF	USING FMRI TO UNDERSTAND RESPONSE TO AN INTEGRATIVE TREATMENT FOR PAIN AND ANXIETY IN PEDIATRIC FUNCTIONAL ABDOMINAL PAIN DISORDERS (FAPD)
150	\$22,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Ilardo, Joan	HUMAN MEDICINE DEAN	CAREGIVER RESOURCE COLLABORATIVE
151	\$100,000	PERKINELMER	Contag, Christopher	INSTITUTE FOR QUANTITATIVE HEALTH	PERKINELMER RESEARCH PROGRAM
152	\$70,425	NATIONAL INST OF HEALTH	Wang, Ping	INSTITUTE FOR QUANTITATIVE HEALTH	MAGNETIC PARTICLE IMAGING OF TRANSPLANTED ISLETS IN TYPE 1 DIABETES ANIMAL MODELS
153	\$180,000	NATIONAL INST OF FOOD & AGRICULTURE	Bates, Ronald	MEDICINE	MICHIGAN AGRABILITY

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154	\$12,900	BIG TEN CANCER RESEARCH CONSORTIUM	Hrinczenko, Borys	MEDICINE	PHASE II STUDY OF CONSOLIDATION IMMUNOTHERAPY WITH NIVOLUMAB AND IPIILIMUMAB OR NIVOLUMAB ALONE FOLLOWING CONCURRENT CHEMORADIOTHERAPY FOR UNRESECTABLE STAGE IIIA/IIIB NON-SMALL CELL LUNG CANCER (NSCLC)
155	\$8,300	CENTERS FOR DISEASE CONTROL & PREVENTION	Rosenman, Kenneth	MEDICINE	MI COVID-19 WORKERS' COMPENSATION CLAIMS ANALYSIS
156	\$810,786	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Leach, Richard	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	STATE OPIOID RELIEF FOR USE DISORDERS
157	\$64,515	SPECTRUM HEALTH SYSTEM	Meghea, Cristian	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	AIM COMMUNITY CARE INITIATIVE
158	\$41,552	BRIGHAM & WOMENS HOSPITAL	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	USING AFFINITY BASED PROTEOMICS TO IDENTIFY DIAGNOSTIC AND PLASMA BIOMARKERS FOR ENDOMETRIOSIS
159	\$20,000	SPECTRUM HEALTH FOUNDATION	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	FAMILIAS FUERTES Y SALUDABLES (STRONG AND HEALTHY FAMILIES) - SPECTRUM HEALTH LATINA EXPANSION GRANT
160	\$12,000	SOCIETY OF MICHIGAN NEONATOLOGISTS	Karna, Padmani	PEDIATRICS AND HUMAN DEVELOPMENT	BREAST MILK USE AND NEONATAL ABSTINENCE SYNDROME QUALITY IMPROVEMENT
161	\$61,158	HEMOPHILIA FOUNDATION OF MICHIGAN	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	PUBLIC HEALTH SURVEILLANCE FOR THE PREVENTION OF COMPLICATIONS OF BLEEDING DISORDERS
162	\$84,000	CYSTIC FIBROSIS FOUNDATION	Li, Xiaopeng	PEDIATRICS AND HUMAN DEVELOPMENT	AAV4 AS A DELIVERY VECTOR FOR GENE THERAPY OF CF LUNG DISEASE
163	\$12,177	CYSTIC FIBROSIS FOUNDATION	Thomas, Ryan	PEDIATRICS AND HUMAN DEVELOPMENT	MSU CF CENTER PROGRAM FOR ADULT CARE EXCELLENCE GRANT 2019
164	\$317,393	NATIONAL INST OF HEALTH	Collier, Kathy	TRANSLATIONAL NEUROSCIENCE	IMPACT OF DYSFUNCTIONAL BDNF ON DOPAMINE TERMINAL REMODELING IN THE PARKINSONIAN STRIATUM
165	\$16,145	UNIVERSITY OF MICHIGAN	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	MICHIGAN ALZHEMIER'S DISEASE CORE CENTER
166	\$53,390	COLUMBIA UNIV	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	THE ROLE OF SUMOYLATION IN TAU-MEDIATED PATHOLOGY
167	\$474,326	NATIONAL INST OF HEALTH	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	TAU-MEDIATED REGULATION AND DYSREGULATION OF PROTEIN PHOSPHATASE 1

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168	\$16,058	UNIVERSITY OF ALABAMA	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	ALPHA-SYNUCLEIN AGGREGATE INDUCED SYNAPSE LOSS IS A PATHOLOGICAL EVENT CONTRIBUTING TO LEWY BODY DEMENTIAS
169	\$65,310	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	Kochmanski, Joseph	TRANSLATIONAL NEUROSCIENCE	DEVELOPMENTAL PESTICIDE EXPOSURE AND EPIGENETIC AGING IN THE BRAIN
170	\$14,537	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
COLLEGE OF MUSIC					
171	\$15,000	MICHIGAN COUNCIL FOR ARTS & CULTURAL AFFAIRS	Demott, Jaime	COMMUNITY MUSIC SCHOOL	MUSIC EDUCATION OUTREACH TO LOW-INCOME STUDENTS
172	\$10,000	PNC FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	EARLY MUSIC, EARLY LEARNING
173	\$9,000	CHILDRENS HOSPITAL OF MICHIGAN FOUNDATION	Woodward, Jill	COMMUNITY MUSIC SCHOOL	RAMP-UP FOR DETROIT SCHOOL OF THE ARTS
COLLEGE OF NATURAL SCIENCE					
174	\$425,000	NATIONAL INST OF FOOD & AGRICULTURE	Lundquist, Peter	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	UNCOVERING THE DYNAMIC FUNCTIONS OF PLASTOGLOBULES FOR ENHANCED DROUGHT AND HEAT TOLERANCE
175	\$177,844	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
176	\$295,213	NATIONAL INST OF HEALTH	Sun, Liangliang	CHEMISTRY	QUANTITATIVE PROTEOMICS OF ZEBRAFISH EMBRYOS AND BLASTOMERES
177	\$160,000	US ARMY RESEARCH OFFICE	Swain, Greg	CHEMISTRY	SPECTROELECTROCHEMICAL STUDIES OF REDOX REACTIONS AND ELECTRIFIED INTERFACES AT CARBON ELECTRODES
178	\$100,000	HONEYWELL CORP	Swain, Greg	CHEMISTRY	METAL AM COATING AND PLATING
179	\$10,000	UNIVERSITY OF IOWA	Bazavov, Alexei	COMPUTATIONAL MATH SCI AND ENGR CNS	FOUNDATIONS OF QUANTUM COMPUTING FOR GAUGE THEORIES AND QUANTUM GRAVITY
180	\$90,579	LOS ALAMOS NATL LABORATORY	O'Shea, Brian	COMPUTATIONAL MATH SCI AND ENGR CNS	DEVELOPING THE PARTHENON PERFORMANCE PORTABLE AMR FRAMEWORK

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181	\$63,846	UNIVERSITY OF ILLINOIS CHICAGO	Dorfman, Susannah	EARTH AND ENVIRONMENTAL SCIENCES	CHICAGO-DOE ALLIANCE CENTER: A CENTER OF EXCELLENCE FOR HIGH PRESSURE SCIENCE AND TECHNOLOGY
182	\$215,648	US DEPT OF STATE	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	DIGITIZATION OF LOP NOR EXPLOSIONS FROM KYRGYZSTAN STATIONS AND ESTABLISHMENT OF THE GT CALIBRATION EXPLOSION WORKING GROUP
183	\$33,452	APPLIED RESEARCH ASSOCIATES INC	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	SUPPORT FOR A SEISMIC AND ACOUSTIC EXPERIMENT AT THE BALAPAN TEST SITE, KAZAKHSTAN: PRE-PLANNING AND EXPERIMENT DESIGN
184	\$75,000	UNIVERSITY OF MICHIGAN	Schrenk, Matthew	EARTH AND ENVIRONMENTAL SCIENCES	OMNIBUS SUPPLEMENTAL 2020/2021: NEXT GENERATION TRACERS OF SEPTIC FIELD INFLUENCE ON SURFACE & GROUNDWATER ECOSYSTEMS IN THE SAGINAW BAY WATERSHED
185	\$24,843	NATIONAL SCIENCE FOUNDATION	Wei, Songqiao	EARTH AND ENVIRONMENTAL SCIENCES	IMAGING THE HYDROUS TONGA SLAB IN THE FASTEST AND COLDEST SUBDUCTION ZONE
186	\$86,104	NATIONAL SCIENCE FOUNDATION	Holekamp, Kay	INTEGRATIVE BIOLOGY	IOS: SELECTION FOR GENERAL INTELLIGENCE BY NOVEL ENVIRONMENTS
187	\$46,500	SCRIPPS RESEARCH INST	Miller, Kyle	INTEGRATIVE BIOLOGY	DYNEIN-DYNACTIN COMPLEX MEDIATED RETROGRADE TRANSPORT DURING LONG-TERM MEMORY
188	\$189,617	UNIVERSITY OF CHICAGO	Crosson, Sean	MICROBIOLOGY MOLECULAR GENETICS CNS	HOST AND MICROBIAL BASIS OF HUMAN ULCERATIVE COLITIS AND POUCHITIS: IDENTIFICATION, ROLE, MECHANISMS, AND RESOURCE DEVELOPMENT OF HOST SUSCEPTIBILITY AND PATHOBIONT FACTORS
189	\$230,884	NATIONAL INST OF HEALTH	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	MECHANISMS OF MHCII EXPRESSION AND CD4+ T CELL ACTIVATION DURING CHLAMYDIA TRACHOMATIS INFECTION
190	\$230,979	NATIONAL INST OF HEALTH	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	DEFINING RESISTANCE AND TOLERANCE MECHANISMS IN HYPER-SUSCEPTIBLE MICE DURING M. TUBERCULOSIS INFECTION
191	\$155,242	UNIVERSITY OF IOWA	Schutte, Brian	MICROBIOLOGY MOLECULAR GENETICS CNS	DISSECTING THE TRANSCRIPTIONAL NETWORK GOVERNING DIFFERENTIATION OF PERIDERM
192	\$526,213	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY MOLECULAR GENETICS CNS	EXPLORING CYCLIC DI-NUCLEOTIDE SIGNALING ACROSS THE TREE OF LIFE
193	\$249,346	NATIONAL INST OF HEALTH	Atchison, William	NEUROSCIENCE PROGRAM	MICHIGAN STATE UNIVERSITY PREP: INCREASING UNDERREPRESENTED MINORITY REPRESENTATION IN BIOMEDICAL SCIENCES

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	Amount	Sponsor	Principal Investigator/ Director	Unit	Project Title
194	\$345,850	NORTHROP GRUMMAN CORP	Birge, Norman	PHYSICS ASTRONOMY	FERROMAGNETIC JOSEPHSON JUNCTIONS FOR CRYOGENIC RANDOM ACCESS MEMORY
195	\$70,591	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Chomiuk, Laura	PHYSICS ASTRONOMY	UNDERSTANDING THE GAMMA-RAY PRODUCTION MECHANISM IN NOVA SHOCKS
196	\$37,900	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Chomiuk, Laura	PHYSICS ASTRONOMY	IN SEARCH OF SHOCKS: MONITORING NOVAE WITH SWIFT
197	\$30,938	COLUMBIA UNIV	Fisher, Wade	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY WBS 6.08.03.01 TRIGGER FRAMEWORK - MREFC - MSU
198	\$32,784	COLUMBIA UNIV	Fisher, Wade	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY WBS 6.08.03.02 TRIGGER CLUSTERING ALGORITHM - MREFC - MSU
199	\$321,695	UNIVERSITY OF MICHIGAN	Hayden, Daniel	PHYSICS ASTRONOMY	ATLAS GREAT LAKES TIER 2 CENTER
200	\$54,607	NATIONAL SCIENCE FOUNDATION	Huston, Joey	PHYSICS ASTRONOMY	INVESTIGATIONS IN PROTON-PROTON COLLISIONS AT THE LARGE HADRON COLLIDER
201	\$197,585	UNIVERSITY OF WISCONSIN MILWAUKEE	Kopper, Claudio	PHYSICS ASTRONOMY	A FRAMEWORK FOR DATA INTENSIVE DISCOVERY IN MULTIMESSENGER ASTROPHYSICS
202	\$29,397	SPACE TELESCOPE SCIENCE INST	O'Shea, Brian	PHYSICS ASTRONOMY	FIGURING OUT GAS & GALAXIES IN ENZO (FOGGIE): THE GAS-GALAXY CONNECTION AT Z>2
203	\$30,620	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Strader, Jay	PHYSICS ASTRONOMY	THE LEAST MASSIVE CENTRAL BLACK HOLE
204	\$50,387	NATIONAL INST OF HEALTH	Levitsky, Yan	PHYSIOLOGY NATURAL SCIENCE	MITOCHONDRIAL CERAMIDE AND DIABETIC RETINOPATHY
205	\$23,750	HENRY FORD HEALTH SYSTEM	Lydic, Todd	PHYSIOLOGY NATURAL SCIENCE	MICROBIOTA AND ALLERGIC ASTHMA PRECISION PREVENTION (MAAP2)
206	\$200,000	STATE OF CALIFORNIA	McCabe, Laura	PHYSIOLOGY NATURAL SCIENCE	ESTABLISHING THE ROLE OF DRIED PLUMS IN THE PREVENTION OF GLUCOCORTICOID INDUCED OSTEOPOROSIS IN MICE
207	\$41,000	KOREAN GINSENG CORP	Parameswaran, Narayanan	PHYSIOLOGY NATURAL SCIENCE	GLUCOCORTICOID-INDUCED OSTEOPOROSIS: EFFECT OF KOREAN GINSENG ON MICROBIOTA-IMMUNE INTERACTION
208	\$488,906	NATIONAL INST OF HEALTH	Wang, Hongbing	PHYSIOLOGY NATURAL SCIENCE	MECHANISM UNDERLYING COGNITIVE AND SYNAPTIC FLEXIBILITY

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209	\$500,000	NATIONAL INST OF FOOD & AGRICULTURE	Buell, CRobin	PLANT BIOLOGY CNS	MINING THE WILD SPECIES SOLANUM MICRODONTUM FOR IMPROVEMENT OF CULTIVATED POTATO
210	\$378,724	UNIVERSITY OF TEXAS AT AUSTIN	Lowry, David	PLANT BIOLOGY CNS	TESTING PREDICTIONS OF PLANT-MICROBE-ENVIRONMENT INTERACTIONS TO OPTIMIZE CLIMATE ADAPTATION AND IMPROVE SUSTAINABILITY IN SWITCHGRASS FEEDSTOCKS
211	\$179,513	PRINCETON UNIV	Schnell, Danny	PLANT BIOLOGY CNS	TRANSFORMING OUR UNDERSTANDING OF CHLOROPLAST-ASSOCIATED GENES THROUGH COMPREHENSIVE CHARACTERIZATION OF PROTEIN LOCALIZATIONS AND PROTEIN-PROTEIN INTERACTIONS
212	\$42,472	RICE UNIV	Viens, Frederi	STATISTICS PROBABILITY	EXACT AND ASYMPTOTIC DISTRIBUTION THEORY FOR GENERAL GAUSSIAN PROCESSES
COLLEGE OF OSTEOPATHIC MEDICINE					
213	\$7,772	CEREVEL THERAPEUTICS LLC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, DOUBLE-BLIND, RANDOMIZED, PLACEBO-CONTROLLED, PARALLEL-GROUP, 27-WEEK TRIAL TO EVALUATE THE EFFICACY, SAFETY, AND TOLERABILITY OF TWO FIXED DOSES OF TAVAPADON IN EARLY PARKINSON'S DISEASE
214	\$6,826	NEUROCRINE BIOSCIENCES INC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A RANDOMIZED, PLACEBO SURGERY CONTROLLED, DOUBLE-BLINDED, MULTI-CENTER, PHASE 2 CLINICAL TRIAL, EVALUATING THE EFFICACY AND SAFETY OF VY-AADC02 IN ADVANCED PARKINSON'S DISEASE WITH MOTOR FLUCTUATIONS
215	\$5,006	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
216	\$1,439,907	NATIONAL INST OF HEALTH	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	TREATING BRAIN SWELLING IN PEDIATRIC CEREBRAL MALARIA
217	\$37,814	INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	GUT MICROBIOTA AND HUMAN MALARIA
218	\$106,037	GREAT LAKES FISHERY COMMISSION	Ellsworth, Edmund	PHARMACOLOGY TOXICOLOGY	DESIGN AND SYNTHESSES OF POTENT ANTAGONISTS OF 3KPZS THROUGH MEDICINAL CHEMISTRY OPTIMIZATION
219	\$99,999	AMER HEART ASSOC	Watts, Stephanie	PHARMACOLOGY TOXICOLOGY	CHEMERIN KNOCKDOWN AS A TREATMENT FOR OBESITY-ASSOCIATED HYPERTENSION
220	\$89,821	OREGON HEALTH & SCIENCE UNIVERSITY	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	TOXICODIETARY AND GENETIC DETERMINANTS OF SUSCEPTIBILITY TO NEURODEGENERATION
221	\$16,980	GRAND VALLEY STATE UNIV	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	STATEWIDE IMPLEMENTATION OF CAPABLE-COMMUNITY AGING IN PLACE, ADVANCING BETTER LIVING FOR ELDERS IN THE MICHIGAN MEDICAID HOME AND COMMUNITY BASED WAIVER PROGRAM

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222	\$96,821	MASSACHUSETTS GENERAL HOSPITAL	Qian, Chunqi	RADIOLOGY OSTEOPATHIC MEDICINE	DEVELOP A MULTI-MODAL CROSS-SCALE FMRI PLATFORM WITH LAMINAR-SPECIFIC CELLULAR RECORDINGS THROUGH MULTI-CHANNEL TAPERED PHOTONIC CRYSTAL FIBER ARRAY
COLLEGE OF SOCIAL SCIENCE					
223	\$12,000	BLACK FAMILY DEVELOPMENT INC	Krupa, Julie	CRIMINAL JUSTICE	DETROIT CEASEFIRE - RESEARCH PARTNER
224	\$48,475	UNIVERSITY OF ALABAMA AT BIRMINGHAM	Maxwell, Christopher	CRIMINAL JUSTICE	DAILY DYNAMICS AND LONG-TERM PATTERNS OF ELDER ABUSE AND NEGLECT IN DEMENTIA FAMILY CAREGIVING
225	\$101,793	CITY OF DETROIT	McGarrell, Edmund	CRIMINAL JUSTICE	COMPREHENSIVE APPROACHES TO OPIOID ABUSE: RESEARCH PARTNER
226	\$228,243	GEORGE MASON UNIV	McGarrell, Edmund	CRIMINAL JUSTICE	JCOIN COORDINATION AND TRANSLATION CENTER - COMMUNITY STAKEHOLDER
227	\$222,500	OFFICE OF JUSTICE PROGRAMS	McGarrell, Edmund	CRIMINAL JUSTICE	CORE CAPACITY AND SPECIAL EMPHASIS SAC PROPOSAL: MICHIGAN STATISTICAL ANALYSIS CENTER 2020
228	\$260,051	ARIZONA STATE UNIV	Zeoli, April	CRIMINAL JUSTICE	A COMPARISON OF FIREARM-RELATED INTIMATE PARTNER HOMICIDE IN MISSOURI AND OREGON: PREVALENCE, RISK, AND THE EFFECT OF FIREARM REGULATIONS
229	\$31,170	UNIVERSITY OF ILLINOIS	Theuerkauf, Ethan	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	PASSIVE SEDIMENT MANAGEMENT: BACKGROUND MONITORING (GREAT LAKES RESTORATION INITIATIVE BRIDGE)
230	\$100,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Fan, Peilei	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	DIVERGENT LOCAL RESPONSES TO GLOBALIZATION: URBANIZATION, LAND TRANSITION, AND ENVIRONMENTAL CHANGES IN SOUTHEAST ASIA
231	\$200,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Henebry, Geoffrey	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	ATMOSPHERIC TELECONNECTIONS AND ANTHROPOGENIC TELECOUPLINGS DRIVE LAND CHANGE IN CENTRAL ASIAN HIGHLANDS: HOW ENVIRONMENTAL CHANGES, MIGRATION, AND REMITTANCES THREATEN MONTANE AGROPASTORALIST...
232	\$100,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Yan, Lin	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	FORCED AND TRUNCATED AGRARIAN TRANSITIONS IN ASIA THROUGH THE LENS OF FIELD SIZE CHANGE
233	\$19,179	SEATTLE CHILDRENS HOSPITAL	Brincks, Ahnalee	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	USING SMART DESIGN TO IDENTIFY AN EFFECTIVE AND COST-BENEFICIAL APPROACH TO PREVENTING OUD IN JUSTICE-INVOLVED YOUTH
234	\$32,508	RUSSELL SAGE FOUNDATION	Rho, Hye Jin	HUMAN RESOURCES AND LABOR RELATIONS	LONGITUDINAL PREDICTORS OF SKILL DEMANDS IN TARGETED U.S. INDUSTRIES.
235	\$424,647	W K KELLOGG FOUNDATION	Grossmann, Matthew	INST FOR PUBLIC POLICY SOCIAL RESEARCH	MAKING RACIAL EQUITY CENTRAL TO MICHIGAN POLICYMAKERS

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236	\$189,740	UNIVERSITY OF CALIFORNIA SANTA BARBARA	Rehberger, Dean	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	A1: KNOWWHEREGRAPH: ENRICHING AND LINKING CROSS-DOMAIN KNOWLEDGE GRAPHS USING SPATIALLY-EXPLICIT AI TECHNOLOGIES TO ADDRESS PRESSING CHALLENGES AT THE HUMAN-ENVIRONMENT NEXUS
237	\$7,481	CENTER FOR A NEW AMERICAN SECURITY	Frantz, Erica	POLITICAL SCIENCE	TECHNOLOGY AND THE PERSONALIZATION OF POLITICS
238	\$35,000	CHARLES STEWART MOTT FOUNDATION	Acevedo, Ignacio	PSYCHOLOGY SOCIAL SCIENCE	YOUTH QUEST EVALUATION
239	\$344,793	RESEARCH FOUNDATION OF SUNY	Anderson, Gary	SOCIAL WORK	CHILD WELFARE TRAINING: THE NATIONAL CHILD WELFARE WORKFORCE INSTITUTE
240	\$7,215	TRI COUNTY OFFICE ON AGING	Brock, Michele	SOCIAL WORK	KINSHIP CARE
241	\$17,872	UNIVERSITY OF MICHIGAN	Smith-Darden, Joanne	SOCIAL WORK	ELECTRONIC DATING ABUSE: A LONGITUDINAL EXAMINATION OF PRECURSORS AND SEQUELAE
ASC PROVOST FOR UNDERGRADUATE EDUCATION					
242	\$785,168	US DEPT OF EDUCATION	Royal, Genyne	SUPPORTIVE SERVICES PROGRAM	MICHIGAN STATE UNIVERSITY STUDENT SUPPORT SERVICES
COLLEGE OF VETERINARY MEDICINE					
243	\$451,919	UNIVERSITY OF GEORGIA RESEARCH FOUNDATION INC	Mansfield, Linda	LARGE ANIMAL CLINICAL SCIENCES	CONTRIBUTION OF THE HUMAN GUT MICROBIOME TO THE DEVELOPMENT AND SEVERITY OF GUILLAIN-BARRÉ SYNDROME
244	\$76,419	SEATTLE CHILDRENS RESEARCH INST	Moeser, Adam	LARGE ANIMAL CLINICAL SCIENCES	FXIII α PRODUCTION BY MAST CELLS FOR INNATE IMMUNITY
245	\$38,629	MORRIS ANIMAL FOUNDATION	Hussey, Gisela	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	DEVELOPMENT OF CANINE RESPIRATORY EPITHELIAL CULTURES FOR TESTING CANINE IFNL3 AS A TREATMENT FOR CANINE VIRAL RESPIRATORY DISEASE.
246	\$14,897	CANINE HEALTH FOUNDATION	Cridge, Harry	SMALL ANIMAL CLINICAL SCIENCES	CARDIOVASCULAR COMPLICATIONS OF ACUTE PANCREATITIS IN DOGS
247	\$305,728	CRISPR THERAPEUTICS	Komaromy, Andras	SMALL ANIMAL CLINICAL SCIENCES	CRISPR-CAS9 GENE THERAPY FOR PRIMARY OPEN-ANGLE GLAUCOMA
248	\$13,869	ROYAL CANIN USA INC	Wennogle, Sara	SMALL ANIMAL CLINICAL SCIENCES	FECAL FAT CONCENTRATIONS AND VARIABILITY IN HEALTHY DOGS AND DOGS WITH CHRONIC ENTEROPATHIES
249	\$125,013	STATE OF MICHIGAN	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	DEVELOPING MICHIGAN'S PIPELINE TO VETERINARY MEDICAL EDUCATION

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FACILITY FOR RARE ISOTOPE BEAMS					
250	\$5,300,000	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS (FRIB)
251	\$9,500,000	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS TRANSITION TO OPERATION AND OPERATION AS SCIENTIFIC USER FACILITY
252	\$158,342	BROOKHAVEN SCIENCE ASSOC LLC	Hao, Yue	FACILITY FOR RARE ISOTOPE BEAMS	JOINT APPOINTMENT AGREEMENT WITH BNL FOR YUE HAO
253	\$178,000	US DEPT OF ENERGY	Ringle, Ryan	FACILITY FOR RARE ISOTOPE BEAMS	GAS STOPPER DEVELOPMENTS FOR IMPROVED PURITY AND INTENSITY OF LOW-ENERGY, RARE ISOTOPE ION BEAMS
254	\$2,000,000	US DEPT OF ENERGY	Severin, Gregory	FACILITY FOR RARE ISOTOPE BEAMS	ACCELERATOR IMPROVEMENT PROJECT: ISOTOPE HARVESTING AT FRIB
255	\$13,000	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Bogner, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR THEORY FOR DOUBLE BETA DECAY AND FUNDAMENTAL SYMMETRIES
256	\$600,000	US DEPT OF ENERGY	Gade, Alexandra	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR STRUCTURE STUDIES AT THE LIMITS OF STABILITY
257	\$151,000	LOS ALAMOS NATL LABORATORY	Lee, Dean	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FACILITY FOR RARE ISOTOPE BEAM (FRIB) THEORY - VISITING ASSISTANT PROFESSOR AT LANL, LONARDONI
258	\$142,000	US DEPT OF ENERGY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	PROBING NUCLEI WITH CHARGE-EXCHANGE REACTIONS
259	\$4,500,000	NATIONAL SCIENCE FOUNDATION	Sherrill, Bradley	NAT'L SUPERCONDUCTING CYCLOTRON LAB	OPERATION OF THE NSCL AS A NATIONAL USER FACILITY & RESEARCH PROGRAM
260	\$90,000	NATIONAL SCIENCE FOUNDATION	Shindler, Andrea	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FUNDAMENTAL SYMMETRIES USING LATTICE QCD WITH THE GRADIENT FLOW
ASC PROV FOR UNIV OUTREACH ENGAGEMENT					
261	\$194,011	MICHIGAN DEPT OF EDUCATION	Gordillo, Paulo	ADMIN SUPPORT MLK INITIATIVE	KCP INITIATIVE COLLEGE DAY/GEAR UP
262	\$449,998	MICHIGAN DEPT OF EDUCATION	Wu, Jamie	COMMUNITY EVALUATION AND RSCH COLLABRTVE	21ST CCLC STATE ACTIVITIES 2020-2021

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263	\$18,150	ARTCENTER COLLEGE OF DESIGN	Swierenga, Sarah	USABILITY ACCESSIBILITY RSCH CONSULTING	ARTCENTER PROJECTS – ACCESSIBILITY AND USABILITY CONSULTING
INTERNATIONAL STUDIES AND PROGRAMS					
264	\$256,193	NATIONAL SCIENCE FOUNDATION	Chandra, Siddharth	ASIAN STUDIES CENTER	D-ISN: TRACK 1: COLLABORATIVE RESEARCH: DISCOVERY, ANALYSIS, AND DISRUPTION OF ILLICIT NARCOTIC SUPPLY NETWORKS
265	\$15,000	US DEPT OF STATE	McCracken, Benjamin	INTERNATIONAL STUDIES AND PROGRAMS DEAN	JCMU - CONSUL GENERAL'S YOUTH ADVISORY COUNCIL LEADERSHIP PROJECT
266	\$56,891	FOREIGN AGRICULTURAL SERVICE	Maredia, Karimbhai	VISITING INTNL PROFESSIONAL PROGRAM	COCHRAN FELLOWSHIP PROGRAM - INTRODUCTION TO U.S. REGULATION OF AGRICULTURAL BIOTECHNOLOGY, GENETIC ENGINEERING, AND BIOSAFETY FOR BURMA
267	\$49,944	US DEPT OF STATE	Wu, Xinyu	VISITING INTNL PROFESSIONAL PROGRAM	EXCHANGE PROGRAM FOR FEMALE SCHOLARS (ULEMAS)
MSU AGBIORESEARCH					
268	\$24,756	MICHIGAN DEPT OF NATURAL RESOURCES	Lupi, Frank	AG FOOD RESOURCE ECON MABR	SOCIAL AND ECONOMIC BENEFITS AND COSTS OF ELK IN MICHIGAN
269	\$164,905	CENTERS FOR DISEASE CONTROL & PREVENTION	Walker, Edward	ENTOMOLOGY MABR	INSECTICIDE TREATED RESTING STATIONS TO CONTROL ADULTS OF THE ENZOOTIC MOSQUITO VECTOR OF EEE VIRUS, CULISETA MELANURA
270	\$150,000	US GEOLOGICAL SURVEY	Infante, Dana	FISHERIES AND WILDLIFE MABR	AQUATIC GAP ANALYSIS PROGRAM: ENHANCING A NATIONAL VIEW OF CONSERVATION NEEDS OF FISHES AND THEIR HABITATS
271	\$2,320,000	US AGENCY FOR INTL DEVELOPMENT	Pittendrigh, Barry	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE INNOVATION LAB FOR LEGUME SYSTEMS RESEARCH (ILLSR)
272	\$29,000	IOWA STATE UNIV	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING AN INTEGRATED MANAGEMENT AND COMMUNICATION PLAN FOR SOYBEAN SUDDEN DEATH
273	\$11,644	KEWEENAW BAY OJIBWA COMMUNITY COLLEGE	Asher, Aaron	WATER RESEARCH INSTITUTE MABR	MODELING IN L'ANSE RESERVATION
274	\$384,375	UNIVERSITY OF ILLINOIS	Asher, Aaron	WATER RESEARCH INSTITUTE MABR	RESOLVING SPATIOTEMPORAL NON-POINT NUTRIENT FLUXES FROM SOILS TO WATER BY CONTINUOUS IN SITU N AND P MONITORING TO ACHIEVE MULTISTATE NUTRIENT LOSS REDUCTION GOALS
MICHIGAN STATE UNIVERSITY EXTENSION					
275	\$8,000	MICHIGAN PEACH SPONSORS	Shane, William	EXTENSION AGRICULTURE AND AGRIBUSINESS	PEACH BREEDING

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276	\$7,000	NATIONAL GRAPE COOPERATIVE ASSOC	Shane, William	EXTENSION AGRICULTURE AND AGRIBUSINESS	VINEYARD OF THE FUTURE: RESEARCH AND DEMONSTRATION
277	\$199,872	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Thelen, Marilyn	EXTENSION AGRICULTURE AND AGRIBUSINESS	MICHIGAN CONSERVATION RESERVE ENHANCEMENT PROGRAM
278	\$8,414	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	MICHIGAN 4H FOUNDATION COUNTY PROGRAMS
279	\$24,750	AMERICAN BIRD CONSERVANCY	Crick, Julie	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	DEVELOPMENT OF THE "FORESTRY WITH BIRDS IN MIND" TOOLKIT
280	\$53,419	UNIVERSITY OF MICHIGAN	Harrison, Ritchie	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MICHIGAN WATER AFFORDABILITY STUDY AND LCR OUTREACH
281	\$8,500	MICHIGAN STATE HOUSING DEVELOPMENT AUTHORITY	Ortquist, Jinnifer	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	HOUSING EDUCATION PROGRAM
282	\$12,681	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MSG EXTENSION (OMNIBUS)
283	\$392,462	NATIONAL INST OF FOOD & AGRICULTURE	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	ADDRESSING RURAL OPIOID MISUSE IN MICHIGAN THROUGH EVIDENCE-BASED HEALTH EDUCATION, TELEHEALTH, DISTANCE LEARNING, AND COALITIONS
284	\$159,960	UNIVERSITY OF ILLINOIS	Eschbach, Cheryl	EXTENSION HEALTH AND NUTRITION	NORTH CENTRAL FARM AND RANCH STRESS ASSISTANCE CENTER: ENGAGING PROGRAMS
285	\$28,115	MICHIGAN DEPT 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
286	\$23,000	MISSISSIPPI STATE UNIV	Skidmore, Mark	MSUE DIRECTORS OFFICE	SOUTHERN RURAL DEVELOPMENT CENTER EVALUATION SUPPORT
287	\$30,803	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Cole-Wick, Ashley	NATURAL FEATURES INVENTORY MSUE	RARE SPECIES SURVEYS USING MIFI NATURAL COMMUNITY RESULTS
288	\$604,999	US FISH & WILDLIFE SERVICE	Hackett, Rachel	NATURAL FEATURES INVENTORY MSUE	GL ISLANDS INVASIVE SPECIES RESPONSE PROJECT

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289	\$29,435	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	FORT CUSTER AQUATIC VEGETATION SURVEYS
290	\$30,000	CORN MARKETING PROGRAM OF MICHIGAN	Thompson, Addie	PLANT SOIL AND MICROBIAL SCIENCES	CORN MARKETING PROJECT
291	\$113,465	MICHIGAN FITNESS FOUNDATION	Beyea, Wayne	SCHL OF PLANNING,DESIGN&CNST-MSUE	SAFE ROUTES TO SCHOOL: 2021
RESEARCH AND INNOVATION					
292	\$9,969	NO STARCH PRESS FOUNDATION	Furcean, John	ASSOCIATE VICE PRESIDENT FOR RESEARCH	VIRTUAL STEM WORKSHOP SERIES IN 3D PRINTING AND COMPUTER PROGRAMMING
293	\$107,893	NATIONAL INST OF HEALTH	Atchison, William	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	FIRST TIME SUMMER RESEARCH EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES
294	\$299,870	GBS GLOBAL BIOPHARMA INC	Kaminski, Norbert	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	AN IMMUNOLOGICAL TESTING STRATEGY EMPLOYING HUMAN PRIMARY LEUKOCYTES TO EVALUATE THE IMMUNOMODULATORY ACTIVITY OF GB SCIENCES MIXTURES: PHASE 2
295	\$4,975,000	MICHIGAN STATE UNIV FOUNDATION	Gage, Douglas	RESEARCH AND INNOVATION SVP	VP RESEARCH DISCRETIONARY FUNDING & INTERNAL GRANT AWARDS (RG101471)
UNIVERSITY ADVANCEMENT					
296	\$27,239,481	VARIOUS DONORS - ADVANCEMENT	Heil, Marti	VICE PRESIDENT UNIVERSITY ADVANCEMENT	GIFTS TO MSU FOR THE PERIOD 10/01/2020 TO 12/31/2020
GENERAL UNIVERSITY ITEMS					
297	\$10,350	ANHEUSER BUSCH FOUNDATION	Martell, Dennis	MSU STUDENT HEALTH CENTER	TARGETING THE IMMEDIATE SOCIAL REALITY: IMPLEMENTING AND EVALUATING A MULTI-TIER TARGETED SOCIAL NORMS CAMPAIGN PROJECTED ANNUAL MAINTENANCE BUDGET
MICHIGAN STATE UNIVERSITY COLLEGE OF LAW					
298	\$47,500	CASEY FAMILY PROGRAMS	Fort, Kathryn	COLLEGE OF LAW DEAN	CASEY FAMILY PROGRAMS - NATIONAL ICWA STRATEGY
VARIOUS					
299	\$214,400	VARIOUS	Various	Various	110 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION

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	\$95,870,183	Total February 2021 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
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GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Wagyu cattle 10 cows & 5 calves	Pickford Prairie Cattle, LLC	AgBioResearch Lake City Research Center	\$74,750.00	Cattle breeding research
2	Rare book collection	Robert & Marilee Thomas	Libraries	\$37,797.00	Research & Special Collections
3	50,000 Face masks	Ford Motor Company Fund	University Services	\$20,000.00	Campus health & safety
4	216 Beekeeping jackets XXL 216 Beekeeping jackets M	Miller Manufacturing Co.	MSU Extension Agriculture & Agribusiness	\$8,259.84	Heroes to hive program
5	Comic book collection	John Swanson	Libraries	\$6,398.00	Research & Special Collections
6	Comic book collection	Robert Lovell	Libraries	\$5,000.00	Research & Special Collections
7-26	Various	Various	Various	\$7,428.21	20 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	\$159,633.05	