

**MICHIGAN STATE
UNIVERSITY**

APPROVED
JUNE 26, 2020
BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY

June 12, 2020

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 23, 2020 through May 20, 2020. The report is a compilation of 817 Gifts, Grants and Contracts plus 78 Consignment/Non-Cash Gifts, with a total value of \$221,282,054.



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

Stephen Hsu
Senior Vice President

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FY 2019-20 TOTALS:

- | | |
|---|---------------|
| a) Gifts, Grants and Contracts only: | \$641,382,821 |
| b) Gifts, Grants and Contracts plus Consignments: | \$645,143,247 |

(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: 06/26/2020

Current Period: Jan 23, 2020 - May 20, 2020

AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$135,161,590	\$351,657,767	83.6%
State of Michigan	\$3,669,909	\$11,040,879	2.6%
Other	\$3,701,003	\$18,123,793	4.3%
Industry/CO	\$2,641,214	\$9,945,418	2.4%
Foundation	\$3,419,417	\$26,348,138	6.3%
Association	\$1,609,744	\$3,720,512	0.9%
Research - Total	\$150,202,876	\$420,836,506	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$40,840,980	\$77,060,123	34.9%
State of Michigan	\$1,453,200	\$8,068,534	3.7%
Other	\$7,831,332	\$29,358,511	13.3%
Industry/CO	\$1,714,857	\$6,693,383	3.0%
Foundation	\$1,338,777	\$7,906,801	3.6%
Association	\$167,011	\$473,398	0.2%
Various Donors - Advancement	\$16,718,685	\$90,985,565	41.3%
Non-Research - Total	\$70,064,842	\$220,546,315	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$176,002,570	\$428,717,890	66.8%
State of Michigan	\$5,123,109	\$19,109,413	3.0%
Other	\$11,532,335	\$47,482,304	7.4%
Industry/CO	\$4,356,071	\$16,638,801	2.6%
Foundation	\$4,758,195	\$34,254,939	5.3%
Association	\$1,776,755	\$4,193,910	0.7%
Various Donors - Advancement	\$16,718,685	\$90,985,565	14.2%
TOTAL	\$220,267,718	\$641,382,821	100%

OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	361	1,123	52.6%
State of Michigan	44	115	5.4%
Other	80	332	15.6%
Industry/CO	88	300	14.1%
Foundation	19	109	5.1%
Association	57	156	7.3%
Research - Total	649	2,135	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	47	201	30.1%
State of Michigan	14	57	8.5%
Other	32	109	16.3%
Industry/CO	40	172	25.8%
Foundation	22	98	14.7%
Association	12	26	3.9%
Various Donors - Advancement	1	4	0.6%
Non-Research - Total	168	667	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	408	1,324	47.3%
State of Michigan	58	172	6.1%
Other	112	441	15.7%
Industry/CO	128	472	16.8%
Foundation	41	207	7.4%
Association	69	182	6.5%
Various Donors - Advancement	1	4	0.1%
TOTAL	817	2,802	100%

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 06/26/2020

Current Period: Jan 23, 2020 - May 20, 2020

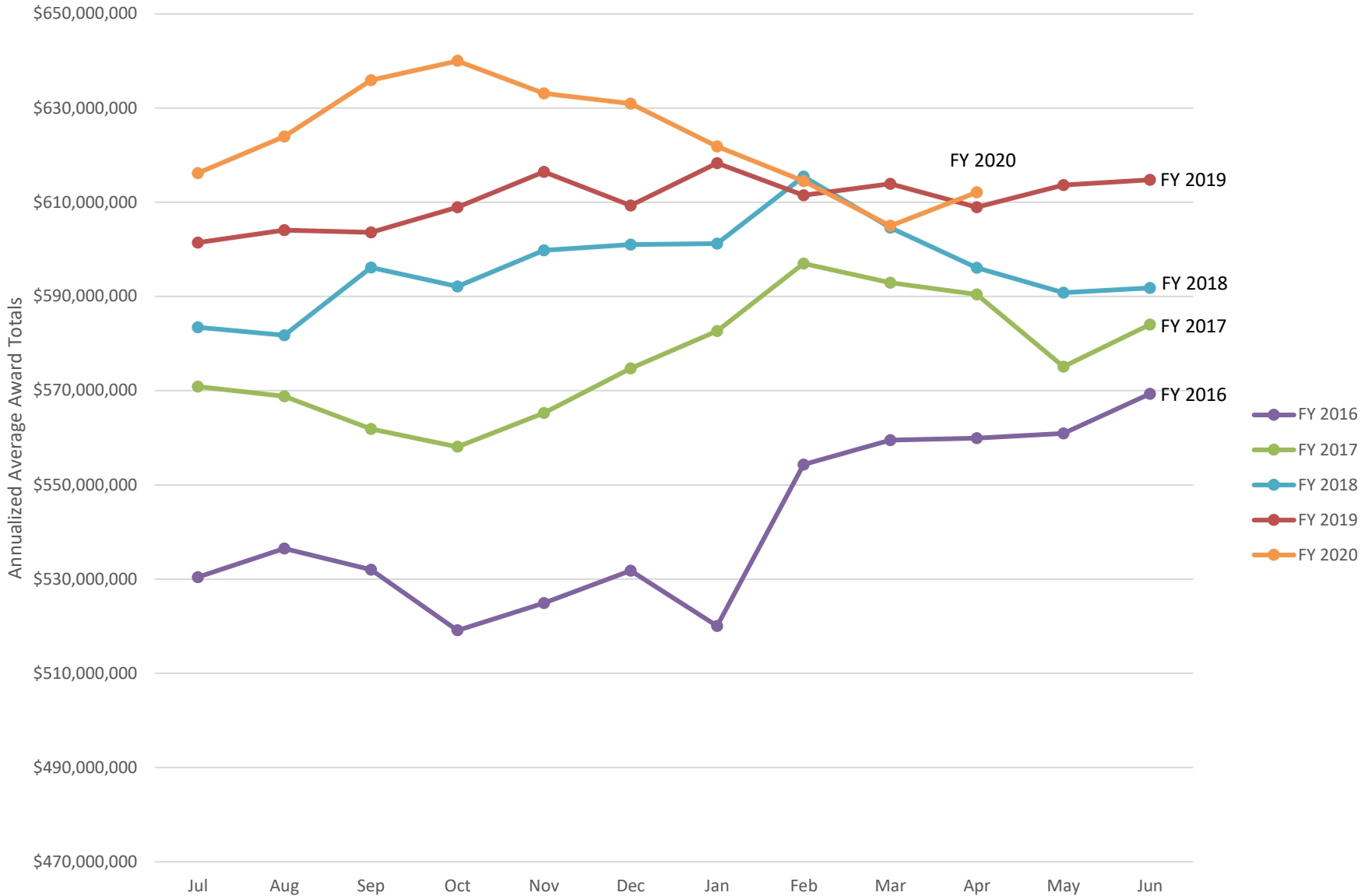
AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$413,223,631	\$351,657,767	-14.9%
State of Michigan	\$18,378,402	\$11,040,879	-39.9%
Other	\$16,461,767	\$18,123,793	10.1%
Industry/CO	\$9,882,540	\$9,945,418	0.6%
Foundation	\$21,650,554	\$26,348,138	21.7%
Association	\$4,055,519	\$3,720,512	-8.3%
Research - Total	\$483,652,412	\$420,836,506	-13.0%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$57,396,632	\$77,060,123	34.3%
State of Michigan	\$9,360,046	\$8,068,534	-13.8%
Other	\$16,024,185	\$29,358,511	83.2%
Industry/CO	\$4,527,434	\$6,693,383	47.8%
Foundation	\$6,593,529	\$7,906,801	19.9%
Association	\$888,932	\$473,398	-46.7%
Various Donors - Advancement	\$81,478,978	\$90,985,565	11.7%
Non-Research - Total	\$176,269,738	\$220,546,315	25.1%
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	\$470,620,263	\$428,717,890	-8.9%
State of Michigan	\$27,738,448	\$19,109,413	-31.1%
Other	\$32,485,952	\$47,482,304	46.2%
Industry/CO	\$14,409,974	\$16,638,801	15.5%
Foundation	\$28,244,083	\$34,254,939	21.3%
Association	\$4,944,451	\$4,193,910	-15.2%
Various Donors - Advancement	\$81,478,978	\$90,985,565	11.7%
TOTAL	\$659,922,149	\$641,382,821	-2.8%

OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	1,064	1,123	5.5%
State of Michigan	112	115	2.7%
Other	319	332	4.1%
Industry/CO	325	300	-7.7%
Foundation	97	109	12.4%
Association	214	156	-27.1%
Research - Total	2,131	2,135	0.2%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	197	201	2.0%
State of Michigan	63	57	-9.5%
Other	154	109	-29.2%
Industry/CO	152	172	13.2%
Foundation	99	98	-1.0%
Association	25	26	4.0%
Various Donors - Advancement	4	4	0.0%
Non-Research - Total	694	667	-3.9%
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	1,261	1,324	5.0%
State of Michigan	175	172	-1.7%
Other	473	441	-6.8%
Industry/CO	477	472	-1.0%
Foundation	196	207	5.6%
Association	239	182	-23.8%
Various Donors - Advancement	4	4	0.0%
TOTAL	2,825	2,802	-0.8%

Michigan State University 3 Year Annualized Average Awards



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

Top 10 Awards for the June 26, 2020 BOT Meeting

Rank	Sponsor Type	Award Amount	Principal Investigator	Sponsor	Department	New or Modification	Award Activity Type	Project Dates	Project Title
1	Federal Government	\$22,627,142	Thomas Glasmacher	US Dept of Energy	FACILITY FOR RARE ISOTOPE BEAMS	Modification	Research	05/01/2009 01/14/2023	Facility for Rare Isotope Beams (FRIB)
2	Federal Government	\$16,000,000	Bradley Sherrill	National Science Foundation	NAT'L SUPERCONDUCTING CYCLOTRON LAB	Modification	Research	10/01/2016 09/30/2021	Operation of the NSCL as a National User Facility & Research Program
3	Federal Government	\$14,918,294	Samuel Stanley	US Dept of Education	FINANCIAL AID	New	Student Services	04/10/2020 04/09/2021	CARES Act Funding Request for Michigan State University (COVID-19)
4	Federal Government	\$14,918,294	Mark Haas	US Dept of Education	CONTROLLER	New	Student Services	03/13/2020 04/21/2021	CARES Act Funding Request for Michigan State University - Institution Portion (COVID-19)
5	Federal Government	\$13,000,000	Thomas Glasmacher	US Dept of Energy	FACILITY FOR RARE ISOTOPE BEAMS	Modification	Research	03/15/2018 01/14/2023	Facility for Rare Isotope Beams Transition to Operation and Operation as Scientific User Facility
6	Federal Government	\$2,660,333	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 (ILLSR)
7	Federal Government	\$2,352,415	Douglas Landis	US Dept of Energy	GREAT LAKES BIOENERGY RESEARC CTR VPRGS	Modification	Research	12/01/2017 11/30/2022	Great Lakes Bioenergy Research Center
8	Federal Government	\$2,206,532	Eva Farre	National Science Foundation	PLANT BIOLOGY CNS	New	Public Service	05/01/2020 04/30/2024	MCA-PGR: Cycling below-ground: Circadian regulation in wild and domesticated potato
9	Federal Government	\$2,043,062	Debra Furr-Holden	National Inst on Minority Health & Health Disparities	CHM FLINT	Modification	Research	07/20/2016 02/28/2021	The Flint Center for Health Equity Solutions
10	Federal Government	\$1,832,126	Simon Petersen-Jones	National Inst of Health	SMALL ANIMAL CLINICAL SCIENCES	Modification	Research	04/01/2018 01/31/2023	Translational Gene Therapy for CNGB1 Retinitis Pigmentosa
	TOTAL	\$92,558,198							

Gift, Grant and Contract Report
Board of Trustees
June 2020

	Amount	Sponsor	Director	Unit	Purpose
COLLEGE OF AGRICULTURE AND NAT RESOURCES					
1	\$126,931	TEXAS A&M UNIV	Caputo, Vincenzina	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	CHOICE BEHAVIOR AND DEMAND FOR ALTERNATIVE GENETICALLY ENGINEERED FOODS: A NEUROECONOMICS INVESTIGATION
2	\$31,496	INST OF DEVELOPMENT STUDIES	Jayne, Thomas	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	IDS - NIGERIA
3	\$211,000	INTL FOOD POLICY RESEARCH INST	Jayne, Thomas	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	CGIAR RESEARCH PROGRAM ON POLICIES, INSTITUTIONS, AND MARKETS (PIM)
4	\$782,105	US AGENCY FOR INTL DEVELOPMENT	Liverpool-Tasie, Lenis	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ENHANCING KNOWLEDGE AND CAPACITY TO STRENGTHEN AGRICULTURAL AND FOOD SECURITY POLICY PROCESSES IN NIGERIA
5	\$52,464	MICHIGAN DEPT OF NATURAL RESOURCES	Lupi, Frank	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	STATEWIDE SURVEY OF MICHIGAN'S LICENSED ANGLERS
6	\$25,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Malone, Trey	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	INCREASING DEMAND FOR MICHIGAN'S EMERGING HARD CIDER INDUSTRY THROUGH COMMUNICATION AND PROMOTION
7	\$43,614	UNIVERSITY OF MINNESOTA DULUTH	Malone, Trey	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	"GREAT LAKES SEA GRANT AQUACULTURE COLLABORATIVE"
8	\$39,995	UNIVERSITY OF CALIFORNIA DAVIS	Porter, Maria	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	TRUST IN FINANCIAL SERVICES FOR AGRICULTURE IN ETHIOPIA: A FIELD EXPERIMENT ON PICTURE-BASED CROP MONITORING
9	\$244,253	CHARLES STEWART MOTT FOUNDATION	Scorsone, Eric	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	FISCAL AND SERVICE SCENARIO ANALYSIS FOR FLINT CITY GOVERNMENT AND FLINT COMMUNITY SCHOOLS.
10	\$8,000	LINCOLN INST LAND POLICY	Skidmore, Mark	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	WHO BEARS THE BURDEN OF SOUTH CAROLINA'S PROPERTY TAX AND THE IMPACT OF ACT 388?

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	Amount	Sponsor	Director	Unit	Purpose
11	\$600,000	US AGENCY FOR INTL DEVELOPMENT	Theriault, Veronique	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	MALI FOOD SECURITY POLICY RESEARCH PROJECT
12	\$308,195	NATIONAL INST OF HEALTH	Chen, Chen	ANIMAL SCIENCE DEPARTMENT ANR	MITOCHONDRIA-ANCHORED PROTEIN COMPLEXES IN PIRNA BIOGENESIS AND FUNCTION
13	\$248,324	NATIONAL INST OF HEALTH	Hoffmann, Hanne	ANIMAL SCIENCE DEPARTMENT ANR	THE ROLE OF THE HOMEOPROTEIN VAX1 IN FERTILITY AND CIRCADIAN RHYTHM
14	\$74,982	FOREIGN AGRICULTURAL SERVICE	Joshi, Nanda	ANIMAL SCIENCE DEPARTMENT ANR	TAJKISTAN POULTRY MANAGEMENT BEST PRACTICES, FOOD SAFETY AND QUALITY
15	\$28,843	UNIV OF KANSAS MEDICAL CENTER RESEARCH INST INC	Latham, Keith	ANIMAL SCIENCE DEPARTMENT ANR	MITOCHONDRIAL RNA DEFENSE PATHWAYS IN THE OOCYTE
16	\$300,557	GREENACRES FOUNDATION	Rowntree, Jason	ANIMAL SCIENCE DEPARTMENT ANR	GREENACRES GRASS-FED BEEF NUTRITIONAL DATABASE
17	\$15,674	VITA PLUS CORP	Rozeboom, Dale	ANIMAL SCIENCE DEPARTMENT ANR	EFFECTS OF FEEDING PROTEASE WITH AND WITHOUT XYLANASE ON GROWTH PERFORMANCE AND ECONOMICS OF 16 TO 35 LB NURSERY PIGS
18	\$48,000	NATIONAL INST OF FOOD & AGRICULTURE	Swanson, Janice	ANIMAL SCIENCE DEPARTMENT ANR	THE 7TH INTERNATIONAL SYMPOSIUM ON BEEF CATTLE WELFARE
19	\$125,000	US GEOLOGICAL SURVEY	Donahue, Darrell	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	FY 2019 USGS 104(B) PROGRAM FUNDING
20	\$20,411	CORN MARKETING PROGRAM OF MICHIGAN	Ghane, Ehsan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	CONTROLLED DRAINAGE: A CONSERVATION DRAINAGE PRACTICE TO REDUCE PHOSPHORUS LOSS FROM SUBSURFACE-DRAINED FIELDS
21	\$22,851	PURDUE UNIV	Ghane, Ehsan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	MANAGING WATER FOR INCREASED RESILIENCY OF DRAINED AGRICULTURAL LANDSCAPES
22	\$25,760	VARIOUS INDUSTRIES	Kirk, Dana	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	FEE FOR SERVICE - DANA KIRK
23	\$288,243	BOOZ ALLEN HAMILTON INC	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	A COMBINED ELECTROCHEMICAL AND BIOLOGICAL BLACKWATER TREATMENT PROCESS
24	\$22,494	AMER COUNCILS FOR INTL EDUCATION	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	ESTABLISHING TEACHING AND RESEARCH CAPACITY ON RENEWABLE RESOURCES AND UTILIZATION IN KAZAKHSTAN

Gift, Grant and Contract Report
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	Amount	Sponsor	Director	Unit	Purpose
25	\$67,486	US DEPT OF DEFENSE	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	BLACK WATER TREATMENT TESTING
26	\$141,881	FOUNDATION FOR MEAT & POULTRY RESEARCH & EDUCATION	Marks, Bradley	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	IMPROVING VALIDATION METHODS FOR SALMONELLA LETHALITY ON THE SURFACE OF MULTIPLE IMPINGEMENT-COOKED MEAT AND POULTRY PRODUCTS
27	\$258,259	TECHNOSERVE	Flores Navas, Luis	DEPARTMENT OF COMMUNITY SUSTAINABILITY	MEJORAMIENTO AGRÍCOLA SOSTENIBLE
28	\$73,564	FAIR FOOD NETWORK	Pirog, Richard	DEPARTMENT OF COMMUNITY SUSTAINABILITY	COMPREHENSIVE AND INTEGRATED CENTER FOR NUTRITION INCENTIVE PROGRAM TRAINING, TECHNICAL ASSISTANCE, EVALUATION AND REPORTING
29	\$290,154	W K KELLOGG FOUNDATION	Pirog, Richard	DEPARTMENT OF COMMUNITY SUSTAINABILITY	TRACKING AND SCALING PROMISING PRACTICES AND POLICIES FOR EQUITABLE FOOD SYSTEMS
30	\$10,000	OHIO STATE UNIV	Difonzo, Christina	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SOYBEAN ENTOMOLOGY RESEARCH AND EXTENSION IN THE NORTH CENTRAL REGION
31	\$21,000	VESTARON CORP	Dong, Ke	ENTOMOLOGY AGRICULTURE AND NATURAL RES	VESTARON - DONATION IN SUPPORT OF RESEARCH PROGRAM
32	\$8,098	MICHIGAN APPLE COMMITTEE	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	COMPARISON OF RESIDUCE TO UREA FOR REDUCING SPRING APPLE SCAB INOCULUM
33	\$11,386	MICHIGAN APPLE COMMITTEE	Grieshop, Matthew	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SEASON LONG EVALUATION OF A SOLID SET CANOPY DELIVERY SYSTEM WITH OPTIMIZED MICROEMITTER PLACEMENT
34	\$75,000	MICHIGAN TREE FRUIT COMMISSION	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	ON-FARM EVALUATION OF STERILE INSECT RELEASE FOR MANAGING CODLING MOTH IN MI APPLE
35	\$20,000	MICHIGAN APPLE COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGING BMSB TO MAINTAIN FRUIT QUALITY AND PRODUCTION EFFICIENCY
36	\$20,000	MICHIGAN APPLE COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGEMENT OF CODLING MOTH USING STERILE INSECT RELEASES
37	\$15,000	MICHIGAN APPLE COMMITTEE	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PHEROMONE-BASED MATING DISRUPTION FOR MANAGING SAN JOSE SCALE

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	Amount	Sponsor	Director	Unit	Purpose
38	\$125,000	WASHINGTON TREE FRUIT RESEARCH COMMISSION	Gut, Larry	ENTOMOLOGY AGRICULTURE AND NATURAL RES	OPTIMIZATION OF RELEASE STRATEGIES FOR STERILE CODLING MOTH
39	\$77,648	ANIMAL & PLANT HEALTH INSPECTION SERVICE	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATING EFFICACY & PERSISTENCE OF SYSTEMIC INSECTICIDE PRODUCTS APPLIED WITH DIFFERENT METHODS FOR HWA CONTROL
40	\$72,442	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESEARCH ON EXOTIC FOREST PESTS IN MICHIGAN
41	\$212,200	MICHIGAN DEPT OF NATURAL RESOURCES	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATION OF INSECTICIDE TREATMENTS IN THE MICHIGAN HEMLOCK WOOLLY ADELGID ERADICATION PROGRAM
42	\$97,495	MIDWEST NUT PRODUCERS COUNCIL	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEVELOPING INTEGRATED FIELD AND POST-HARVEST PEST MANAGEMENT STRATEGIES TO ADVANCE CHESTNUT QUALITY AND MARKET EXPANSION
43	\$100,067	BEE INFORMED PARTNERSHIP INC	Milbrath, Meghan	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MICHIGAN STATE UNIVERSITY/MICHIGAN TECHNICAL TRANSFER TEAM TO MONITOR COLONY HEALTH
44	\$25,379	PROJECT APIS M	Milbrath, Meghan	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RISK FACTORS FOR EUROPEAN FOULBROOD DISEASE: WHY DO SOME COLONIES DEVELOP SEVERE BACTERIAL DISEASE DURING BLUEBERRY BLOOM?
45	\$20,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGEMENT OF SOYBEAN CYST NEMATODE THROUGH THE USE OF COMPOSTS AND MANURES ALONGSIDE SOYBEAN CYST NEMATODE RESISTANT VARIETIES
46	\$44,513	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	FINDING SOLUTIONS TO MANAGE PLANT-PARASITIC PESTS OF MICHIGAN HOPYARDS
47	\$97,967	MICHIGAN POTATO INDUSTRY COMMISSION	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SUSTAINABLE MANAGEMENT OF POTATO EARLY DIE COMPLEX WITH CUSTOM COMPOST BLENDS
48	\$5,949	MDARD HORTICULTURE FUND	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	INTEGRATED APPROACH TO ROOT KNOT NEMATODE MANAGEMENT IN ORNAMENTAL HEMEROCALLIS SPP. (DAYLILIES) BARE ROOT PRODUCTION
49	\$10,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MANAGEMENT OF SOYBEAN CYST NEMATODE THROUGH ROTATION OF SOYBEAN CYST NEMATODE RESISTANT VARIETIES, AND OTHER MANAGEMENT PRACTICES
50	\$14,954	MICHIGAN SUGARBEET ADVANCEMENT	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	SURVEY TO DETERMINE THE PRESENCE AND DISTRIBUTION OF SUGAR BEET CYST NEMATODES AND ALL OTHER PLANT PARASITIC NEMATODES IN SUGAR BEET PRODUCTION.

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	Amount	Sponsor	Director	Unit	Purpose
51	\$22,100	VIVE CROP PROTECTION INC	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATION OF VIVE ABAMECTIN ON SUGAR BEETS AND SOYBEANS FOR NEMATODE CONTROL.
52	\$6,975	MICHIGAN SUGARBEET ADVANCEMENT	Quintanilla Tornel, Marisol	ENTOMOLOGY AGRICULTURE AND NATURAL RES	GREENHOUSE AND FIELD EVALUATIONS TO DETERMINE THE POTENTIAL PRESENCE OF SCN & BCN HYBRID NEMATODES IN MICHIGAN SOILS
53	\$7,000	VESTARON CORP	Smitley, David	ENTOMOLOGY AGRICULTURE AND NATURAL RES	PHYTOTOXICITY TESTING OF NEW PRODUCTS USED FOR GREENHOUSE CUTTINGS.
54	\$170,000	UNIVERSITY OF GEORGIA	Szendrei, Zsofia	ENTOMOLOGY AGRICULTURE AND NATURAL RES	EVALUATION OF INTEGRATED BACTERIAL DISEASE MANAGEMENT OPTIONS FOR ORGANIC ONION PRODUCTION IN SOUTHEASTERN AND NORTHEASTERN UNITED STATES
55	\$228,600	MICHIGAN DEPT OF NATURAL RESOURCES	Szucs, Marianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	BIOLOGICAL CONTROL OF KNOTWEEDS
56	\$357,559	UNIVERSITY OF WISCONSIN	Walker, Edward	ENTOMOLOGY AGRICULTURE AND NATURAL RES	THE UPPER MIDWESTERN REGIONAL CENTER OF EXCELLENCE IN VECTOR-BORNE DISEASE
57	\$24,926	CHERRY MARKETING INST	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
58	\$6,232	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
59	\$6,000	ISK BIOSCIENCES	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING ISK INSECTICIDES FOR TREE FRUIT IPM
60	\$46,200	MCLAUGHLIN GORMLEY KING CO	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING MGK INSECTICIDES FOR FRUIT IPM.
61	\$6,600	VESTARON CORP	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING VESTARON INSECTICIDES FOR FRUIT IPM
62	\$59,847	RNAISSANCE AG LLC	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MSU BIOASSAY STUDIES FOR RNAISSANCE AG: RNAI ACTIVITY ON FRUIT PESTS
63	\$12,100	VESTARON CORP	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING VESTARON INSECTICIDES FOR FRUIT IPM

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	Amount	Sponsor	Director	Unit	Purpose
64	\$5,500	VESTARON CORP	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING VESTARON INSECTICIDES FOR FRUIT IPM
65	\$7,100	CERTIS USA	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING RESEARCH USING CERTIS PRODUCTS
66	\$33,000	MCLAUGHLIN GORMLEY KING CO	Wise, John	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TESTING MGK INSECTICIDES FOR FRUIT IPM.
67	\$103,360	MICHIGAN DEPT OF NATURAL RESOURCES	Bence, James	FISHERIES AND WILDLIFE	IMPROVING FISHERY STOCK ASSESSMENTS IN THE GREAT LAKES
68	\$49,784	GREAT LAKES FISHERY COMMISSION	Bence, James	FISHERIES AND WILDLIFE	GLFC SUPPORT FOR QFC
69	\$79,403	US FISH & WILDLIFE SERVICE	Bennett, Abigail	FISHERIES AND WILDLIFE	COMMUNITY PARTNERSHIPS TO COMBAT SEA CUCUMBER POACHING AND TRAFFICKING IN YUCATAN, MEXICO: APPLYING GEOGRAPHIC INFORMATION SCIENCE TO PLACE-BASED MONITORING AND ENFORCEMENT
70	\$69,106	GREAT LAKES FISHERY COMMISSION	Brenden, Travis	FISHERIES AND WILDLIFE	SIMULATIONS TO EVALUATE DIRECT AND INDIRECT FACTORS AFFECTING THE RELATIONSHIP BETWEEN SEA LAMPREY ABUNDANCE, LAKE TROUT ABUNDANCE, AND LAKE TROUT WOUNDING
71	\$70,000	MICHIGAN DEPT OF NATURAL RESOURCES	Brenden, Travis	FISHERIES AND WILDLIFE	LAKE PRODUCTIVITY MODELING TO ESTIMATE CAPACITY TO SUPPORT DOUBLE- CRESTED CORMORANT PREDATION
72	\$40,000	MICHIGAN DEPT OF NATURAL RESOURCES	Brenden, Travis	FISHERIES AND WILDLIFE	LAKE PRODUCTIVITY MODELING TO ESTIMATE CAPACITY TO SUPPORT DOUBLE- CRESTED CORMORANT PREDATION
73	\$14,668	NATIONAL SCIENCE FOUNDATION	Cheruvellil, Kendra	FISHERIES AND WILDLIFE	COLLABORATIVE PROPOSAL: MSB-FRA: A MACROSYSTEMS FRAMEWORK FOR CONTINENTAL-SCALE PREDICTION AND UNDERSTANDING OF LAKES
74	\$203,300	MICHIGAN DEPT OF NATURAL RESOURCES	Hayes, Daniel	FISHERIES AND WILDLIFE	IMPEDIMENTS TO BEHAVIORAL CHANGE TO MINIMIZE SPREAD OF INVASIVE SPECIES
75	\$23,500	US GEOLOGICAL SURVEY	Infante, Dana	FISHERIES AND WILDLIFE	IMPLEMENTING THE USGS NATIONAL AND REGIONAL CLIMATE ADAPTATION SCIENCE CENTER'S SCIENCE TO ACTION FELLOWSHIP
76	\$68,793	MICHIGAN DEPT OF NATURAL RESOURCES	Kramer, Daniel	FISHERIES AND WILDLIFE	PERM - DAN KRAMER - SOCIAL, ECONOMIC, AND POLICY ASPECTS OF WILDERNESS MANAGEMENT
77	\$30,000	MICHIGAN LAKES & STREAMS ASSOC	Latimore, Jo	FISHERIES AND WILDLIFE	MEMORANDUM OF UNDERSTANDING FOR AN INLAND LAKE EXTENSION POSITION
78	\$34,500	USDA FOREST SERVICE	Latimore, Jo	FISHERIES AND WILDLIFE	MSU AIS EDUCATION PARTNERSHIP
79	\$33,159	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Latimore, Jo	FISHERIES AND WILDLIFE	A COMPARISON OF HEATED/PRESSURIZED BOAT WASHES AND WATERLESS BOAT CLEANING STATIONS FOR AIS PREVENTION

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80	\$82,144	GREAT LAKES FISHERY COMMISSION	Li, Weiming	FISHERIES AND WILDLIFE	CHEMICAL ANALYSES OF SEA LAMPREY PHEROMONES AND LAMPRICIDES
81	\$122,536	GREAT LAKES FISHERY COMMISSION	Li, Weiming	FISHERIES AND WILDLIFE	STRUCTURE AND FUNCTION OF NOVEL PHEROMONES FROM SEA LAMPREY MILT
82	\$30,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Liu, Jianguo	FISHERIES AND WILDLIFE	NASA-MSU PROFESSIONAL ENHANCEMENT AWARDS
83	\$102,336	GREAT LAKES FISHERY COMMISSION	Loch, Thomas	FISHERIES AND WILDLIFE	IMPROVING WILD AND HATCHERY-REARED LAKE TROUT HEALTH VIA DEVELOPMENT OF NOVEL EPIZOOTIC EPITHELITROPIC DISEASE PREVENTION METHODS
84	\$52,441	MICHIGAN DEPT OF NATURAL RESOURCES	Lupi, Frank	FISHERIES AND WILDLIFE	PERM - FRANK LUPI - ECONOMIC ASPECTS OF WILDLIFE MANAGEMENT
85	\$10,718	MICHIGAN HUMANITIES COUNCIL	Owen, Jennifer	FISHERIES AND WILDLIFE	STORIED LANDSCAPES: BRIDGING ECOLOGICAL AND ORAL HISTORIES ON THE COREY MARSH INTERPRETIVE TRAIL
86	\$50,000	MICHIGAN DEPT OF NATURAL RESOURCES	Porter, William	FISHERIES AND WILDLIFE	MANAGEMENT OF CHRONIC WASTING DISEASE
87	\$44,229	MICHIGAN DEPT 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
88	\$148,037	MICHIGAN DEPT OF NATURAL RESOURCES	Riley, Shawn	FISHERIES AND WILDLIFE	PERM: SHAWN RILEY - HUMAN DIMENSION CONSIDERATIONS IN WILDLIFE MANAGEMENT
89	\$46,222	GREAT LAKES FISHERY COMMISSION	Robinson, John	FISHERIES AND WILDLIFE	DEVELOPMENT AND APPLICATION OF GENETIC METHODS TO SUPPORT GREAT LAKES FISHERY MANAGEMENT NEEDS
90	\$99,096	GREAT LAKES FISHERY COMMISSION	Robinson, John	FISHERIES AND WILDLIFE	DEPLOY AND EVALUATE SEA LAMPREY CONTROLS THAT SUPPLEMENT LAMPRICIDES AND BARRIERS
91	\$75,000	UNIVERSITY OF MICHIGAN	Robinson, Kelly	FISHERIES AND WILDLIFE	UPDATED DECISION ANALYSIS TO INFORM MULTI-SPECIES SALMONINE MANAGEMENT IN LAKE MICHIGAN
92	\$84,705	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	ROLOFF ANNUAL PERM AGREEMENT
93	\$44,639	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	WILDLIFE RESPONSES TO INNOVATIVE SILVICULTURAL APPROACHES IN NORTHERN HARDWOOD FORESTS OF MICHIGAN
94	\$29,044	THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND	Rose, Joan	FISHERIES AND WILDLIFE	DEVELOPMENT OF AN INTEGRATED RAPID NANOPORE PLATFORM FOR BUILDING THE VIROME OF MARINE MAMMALS AND THEIR ASSOCIATED ENVIRONMENTS
95	\$86,207	MICHIGAN DEPT OF NATURAL RESOURCES	Roth, Brian	FISHERIES AND WILDLIFE	IMPLEMENTING AND EVALUATING RESPONSE ACTIONS FOR RED SWAMP CRAYFISH IN MICHIGAN
96	\$157,600	MICHIGAN DEPT OF NATURAL RESOURCES	Scribner, Kim	FISHERIES AND WILDLIFE	APPLYING GENOMIC RESOURCES TO UNDERSTAND THE REPRODUCTIVE ECOLOGY AND DISPERSAL DYNAMICS OF RED SWAMP CRAYFISH TO DIRECT CONTROL EFFORTS

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97	\$81,062	GREAT LAKES FISHERY COMMISSION	Wagner, Michael	FISHERIES AND WILDLIFE	ESTIMATION OF TRANSFORMER OUT-MIGRATION MORTALITY WITH ACOUSTIC MICRO-TRANSMITTERS
98	\$48,141	MICHIGAN DEPT OF NATURAL RESOURCES	Warwick, Alexa	FISHERIES AND WILDLIFE	PERM: ALEXA WARWICK – ENGAGEMENT, OUTREACH, AND HUMAN DIMENSIONS IN WILDLIFE MANAGEMENT
99	\$116,500	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	CHRONIC WASTING DISEASE DEER MOVEMENT STUDY
100	\$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
101	\$116,716	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	QUANTITATIVE WILDLIFE CENTER RESEARCH AND BIOMETRICS SUPPORT FOR DNR WILDLIFE DIVISION
102	\$20,000	MICHIGAN DEPT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	FACTORS AFFECTING WATERFOWL AND HUNTER USE OF MANAGED WATERFOWL AREAS.
103	\$207,000	MICHIGAN DEPT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	WILDLIFE AND RECREATIONAL VALUE OF CREATED AND ENHANCED WETLANDS IN MICHIGAN
104	\$9,995	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	Bello Bravo, Maria Julia	FOOD SCIENCE AND HUM NUTRITION ANR	PRE-IGNITION BIOMASS EMISSIONS: CAUSES AND CHARACTERIZATION
105	\$65,000	LAND O LAKES INC	Bourquin, Leslie	FOOD SCIENCE AND HUM NUTRITION ANR	REPUBLIC OF GEORGIA FOOD FOR PROGRESS
106	\$12,000	US DEPT OF 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
107	\$36,611	NATIONAL INST OF HEALTH	Wierenga, Kate	FOOD SCIENCE AND HUM NUTRITION ANR	OMEGA-3 FATTY ACID SUPPRESSION OF SILICA-INDUCED INFLAMMASOME ACTIVATION IN A NOVEL ALVEOLAR MACROPHAGE MODEL
108	\$478,000	NATIONAL INST OF FOOD & AGRICULTURE	Wu, Felicia	FOOD SCIENCE AND HUM NUTRITION ANR	AFLATOXIN REDUCED BY BT CORN? EXAMINING CROP INSURANCE CLAIMS FOR REAL WORLD IMPACTS OF TECHNOLOGIES FOR FOOD SAFETY
109	\$5,300	SUSTAINABLE FORESTRY INITIATIVE INC	Cooper, Lauren	FORESTRY	LINKING SFI CERTIFICATION TO CLIMATE-SMART FORESTRY
110	\$59,980	NATIONAL PARK SERVICE	Dowtin, Asia	FORESTRY	EVALUATING THE RELATIONSHIP OF COMMUNITY GRAVEL BEDS AND DEVELOPING SUSTAINABLE TREE CANOPIES AT GREAT LAKE SITES
111	\$59,114	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Finley, Andrew	FORESTRY	NASA-USFS PARTNERSHIP TO ADVANCE OPERATIONAL FOREST CARBON MONITORING IN INTERIOR ALASKA

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112	\$148,272	NORTHERN MICHIGAN UNIV	Huff, Emily	FORESTRY	FOREST FUELS: EQUITY, ENVIRONMENT, AND WOODY BIOMASS ENERGY TECHNOLOGIES IN MICHIGAN
113	\$75,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Kobe, Richard	FORESTRY	MAGNIFYING THE IMPACT OF MICHIGAN STATE UNIVERSITY'S MASS TIMBER STEM BUILDING
114	\$499,501	NATIONAL INST OF FOOD & AGRICULTURE	Koyama, Akihiro	FORESTRY	OAK SUCCESS UNDER PINE: USING UNDERLYING MECHANISMS TO DEVELOP NOVEL SILVICULTURAL PRACTICES IN THE LAKE STATES REGION
115	\$70,000	MICHIGAN TECHNOLOGICAL UNIVERSITY	Nejad, Mojgan	FORESTRY	LIGNIN-BASED COST-EFFECTIVE RENEWABLE POLYOLS FOR POLYURETHANE FORMULATIONS
116	\$175,973	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Skole, David	FORESTRY	NEW TRANSITIONS IN SMALLHOLDER AGRICULTURAL SYSTEMS THAT PROMOTE INCREASED TREE COVER OUTSIDE OF FORESTS
117	\$838,273	NATIONAL SCIENCE FOUNDATION	Stark, Scott	FORESTRY	COLLABORATIVE RESEARCH: THE OTHER SIDE OF TROPICAL FOREST DROUGHT: DO SHALLOW WATER TABLE REGIONS OF AMAZONIA ACT AS LARGE-SCALE HYDROLOGIC REFUGIA FROM DROUGHT?
118	\$112,712	NATIONAL SCIENCE FOUNDATION	Barry, Cornelius	HORTICULTURE ANR	NSF REU SITE: PLANT GENOMICS @ MSU
119	\$30,000	HORTICULTURAL RESEARCH INST	Behe, Bridget	HORTICULTURE ANR	OFF THE SALES FLOOR AND INTO THE CART: ANALYZING THE PATH TO PLANT PURCHASES
120	\$11,535	MDARD HORTICULTURE FUND	Cregg, Bert	HORTICULTURE ANR	LANDSCAPE PLANT SELECTION AND MANAGEMENT FOR SLOPE RESTORATION ON URBAN FREEWAYS
121	\$500,000	NATIONAL INST OF FOOD & AGRICULTURE	Edger, Patrick	HORTICULTURE ANR	DEVELOPING GENOMIC TOOLS TO FACILITATE BREEDING OF STRAWBERRY WITH IMPROVED SALINITY TOLERANCE
122	\$172,418	NORTH CAROLINA STATE UNIV	Edger, Patrick	HORTICULTURE ANR	VACCINIUMCAP: LEVERAGING GENETIC AND GENOMIC RESOURCES TO ENABLE DEVELOPMENT OF IMPROVED BLUEBERRY AND CRANBERRY CULTIVARS TO GROWERS AND CONSUMERS
123	\$12,516	MDARD HORTICULTURE FUND	Fernandez, Rodney	HORTICULTURE ANR	USING BIOREACTORS TO REMEDIATE NUTRIENTS AND PESTICIDES FROM RUNOFF FROM CONTAINER CROP PRODUCTION
124	\$18,000	PROVEN WINNERS NORTH AMERICA LLC	Lopez, Roberto	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT FLORICULTURE RESEARCH.
125	\$16,497	AMER FLORAL ENDOWMENT	Runkle, Erik	HORTICULTURE ANR	: DEVELOPMENT OF SOLE-SOURCE LIGHTING GUIDELINES FOR THE PRODUCTION OF FLORICULTURE TRANSPLANTS
126	\$35,982	MICHIGAN CRAFT BEVERAGE COUNCIL	Sabbatini, Paolo	HORTICULTURE ANR	GRAPEVINE COLD HARDINESS: INTEGRATING ENVIRONMENTAL CUES AND VINE PHYSIOLOGY
127	\$10,000	MDARD HORTICULTURE FUND	Saha, Debalina	HORTICULTURE ANR	NON-CHEMICAL LIVERWORT CONTROL IN MICHIGAN'S ORNAMENTAL PRODUCTION AT CONTAINER NURSERIES AND GREENHOUSES

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128	\$34,474	MICHIGAN CRAFT BEVERAGE COUNCIL	Vannocker, Steven	HORTICULTURE ANR	MICHIGAN PURERED - RED-JUICED APPLE CULTIVARS FOR MICHIGAN HARD CIDER PRODUCTION
129	\$119,255	INTL SAFE TRANSIT ASSOC	Speck, Ricky	PACKAGING	DATA COLLECTION – MEASURING THE EFFECT OF PACKAGED PRODUCT SIZE AND WEIGHT ON THE DROP HEIGHTS EXPERIENCED
130	\$32,088	MICHIGAN BEAN COMMISSION	Bales, Scott	PLANT SOIL AND MICROBIAL SCIENCES	FUNDS TO COVER HALF OF DRY BEAN SPECIALIST'S SALARY FOR THE FIRST HALF OF 2020
131	\$35,000	MICHIGAN SUGARBEET ADVANCEMENT	Bublitz, Daniel	PLANT SOIL AND MICROBIAL SCIENCES	SUGARBEET ADVANACMENT TO COVER SALARIES FOR SUGAR BEET ACADEMIC SPECIALIST
132	\$18,900	VARIOUS INDUSTRIES	Cassida, Kimberly	PLANT SOIL AND MICROBIAL SCIENCES	CASSIDA PSM TESTING
133	\$29,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	OPTIMIZING FUNGICIDE INPUTS FOR DISEASE MANAGEMENT IN BARLEY AND HOPS
134	\$42,000	CORN MARKETING PROGRAM OF MICHIGAN	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	EPIDEMIOLOGY AND MANAGEMENT OF TAR SPOT
135	\$132,560	VARIOUS INDUSTRIES	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	CHILVERS PSM TESTING
136	\$40,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	SOYBEAN SDS AND SCN MANAGEMENT: DETECTION, FUNGICIDES AND RESISTANCE
137	\$20,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	IMPROVING WHITE MOLD MANAGEMENT: EPIDEMIOLOGY, FUNGICIDE TIMING AND PLANT RESISTANCE
138	\$25,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	PROJECT TITLE DETERMINATION OF PHYTOPHTHORA SOJAE POPULATIONS AND ASSESSMENT OF MANAGEMENT STRATEGIES
139	\$289,113	NATIONAL INST OF HEALTH	Day, Brad	PLANT SOIL AND MICROBIAL SCIENCES	NUCLEOCYTOPLASMIC REGULATION OF PATHOGEN-INDUCED ACTIN DYNAMICS.
140	\$52,101	VARIOUS INDUSTRIES	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	DOUCHES PSM TESTING

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141	\$108,043	UNIVERSITY OF NEVADA RENO	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	ECA-PGR: DISSECTING THE TRANSCRIPTIONAL NETWORKS UNDERLYING PLANT WOUND SUBERIN BIOSYNTHESIS
142	\$706,819	NATIONAL INST OF FOOD & AGRICULTURE	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT OF MULTIPURPOSE POTATO CULTIVARS WITH ENHANCED QUALITY, DISEASE AND PEST RESISTANCE ĩ NORTH CENTRAL REGION 2019-21
143	\$62,865	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
144	\$15,000	MICHIGAN SUGAR CO	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	ALTERNATAIVE CHEMICAL PRODUCTS FOR MANAGING CERCOSPORA BETICOLA
145	\$7,000	MICHIGAN SUGAR CO	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	INTERACTIONS BETWEEN SUGAR BEET AND STORAGE ROT PATHOGENS
146	\$10,000	MICHIGAN SUGAR CO	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	HOST INTERACTIONS WITH ALTERNARIA SPP. FROM ALTERNARIA LEAF SPOT IN MICHIGAN
147	\$52,035	VARIOUS INDUSTRIES	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	HAUSBECK PSM TESTING
148	\$50,000	MICHIGAN CROP IMPROVEMENT ASSOC	Kelly, James	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT AND MAINTENANCE OF HIGH-YIELDING, DISEASE RESISTANT, DROUGHT TOLERANT, PROCESSOR QUALITY DRY BEAN VARIETIES SUITABLE FOR DIRECT HARVEST IN MICHIGAN
149	\$11,500	VARIOUS INDUSTRIES	Long, Christopher	PLANT SOIL AND MICROBIAL SCIENCES	LONG POTATO TESTING
150	\$30,000	MICHIGAN CRAFT BEVERAGE COUNCIL	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING INTEGRATED PEST MANAGEMENT APPROACHES FOR SOUR ROT CONTROL IN MICHIGAN VINEYARDS
151	\$168,750	VARIOUS INDUSTRIES	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	MILES PSM TESTING
152	\$14,500	VARIOUS INDUSTRIES	Nikolai, Thomas	PLANT SOIL AND MICROBIAL SCIENCES	NIKOLAI PSM TESTING
153	\$40,000	MICHIGAN CROP IMPROVEMENT ASSOC	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT OF SOFT WINDER WHEAT VARIETIES FOR MICHIGAN AND THE GREAT LAKES REGION

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154	\$90,536	UNIVERSITY OF CALIFORNIA DAVIS	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	NIFA-INTERNATIONAL WHEAT YIELD PARTNERSHIP PROGRAM (NIFA-IWYP)
155	\$21,434	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Pennington, Dennis	PLANT SOIL AND MICROBIAL SCIENCES	VARIETY SELECTION AND AGRONOMY PRACTICES FOR SOFT WINTER WHEAT MALTING
156	\$10,000	MICHIGAN SUGAR CO	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	POPULATION BIOLOGY AND FUNGICIDE SENSITIVITY OF ALTERNARIA SPP. FROM MICHIGAN SUGARBEET
157	\$10,000	MICHIGAN SUGAR CO	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	FUNGICIDE SENSITIVITY AND MECHANISMS OF RESISTANCE FOR MANAGEMENT OF CERCOSPORA LEAF SPOT
158	\$80,000	COLORADO STATE UNIV	Rosenzweig, Noah	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATING NEXT-GENERATION TECHNOLOGIES FOR BLACKLEG AND SOFT ROT MANAGEMENT IN POTATO.
159	\$24,044	MICHIGAN CRAFT BEVERAGE COUNCIL	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	ROLE OF PLANTING DATE AND SEEDING RATE IN OPTIMIZING WINTER SURVIVAL, YIELD AND QUALITY OF MALTING BARLEY
160	\$9,892	VARIOUS INDUSTRIES	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	SINGH PSM TESTING
161	\$52,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	AGRONOMIC MANAGEMENT STRATEGIES TO IMPROVE YIELD AND PROFITABILITY IN MICHIGAN SOYBEAN PRODUCTION
162	\$137,471	WOLFE'S NECK CENTER FOR AGRICULTURE & THE ENVIRONMENT	Snapp, Sieglinde	PLANT SOIL AND MICROBIAL SCIENCES	OPEN TECHNOLOGY ECOSYSTEM FOR AGRICULTURAL MANAGEMENT (OPENTTEAM)
163	\$174,500	UNIVERSITY OF MICHIGAN	Snapp, Sieglinde	PLANT SOIL AND MICROBIAL SCIENCES	LINKING PLANT TRAITS WITH SOIL HEALTH TO DETERMINE OPTIMAL COVER CROP MIXTURES ON ORGANIC FARMS
164	\$75,250	VARIOUS INDUSTRIES	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	SPRAGUE PSM TESTING
165	\$15,000	MICHIGAN SUGAR CO	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	COVER CROPS AND OTHER STRATEGIES TO MANAGE GLYPHOSATE-RESISTANT HORSEWEED [MARESTAIL] IN ROUNDUP READY SUGAR BEET - YEAR 2
166	\$8,150	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	WEED CONTROL IN NON-GMO SOYBEAN

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167	\$26,825	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	STRATEGIES TO MANAGE WATERHEMP USING NEW SOYBEAN TECHNOLOGIES
168	\$26,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	INNOVATIVE STRATEGIES TO MANAGE GLYPHOSATE-RESISTANT HORSEWEED [MARESTAIL] IN SOYBEAN
169	\$43,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	ENHANCING NUTRIENT UPTAKE IN SOYBEAN PRODUCTION SYSTEMS - YEAR 2
170	\$14,880	MICHIGAN SUGAR CO	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATING AGRONOMIC MANAGEMENT PRACTICES TO IMPROVE SUGARBEET YIELD AND QUALITY
171	\$107,586	VARIOUS INDUSTRIES	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	STEINKE PSM TESTING
172	\$145,620	VARIOUS INDUSTRIES	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	SUNDIN PSM TESTING
173	\$27,100	VARIOUS INDUSTRIES	Vargas, Joseph	PLANT SOIL AND MICROBIAL SCIENCES	VARGAS PSM TESTING
174	\$8,946	VARIOUS INDUSTRIES	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	WANG TESTING PROJECTS
175	\$51,313	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	ENHANCE RESEARCH IN SOYBEAN FIELD EVALUATIONS IN MICHIGAN
176	\$45,000	AGRICULTURAL RESEARCH SERVICE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	DISCOVER SOURCES, GENES AND DEVELOP NEW VARIETIES AND GERMLASM WITH IMPROVED MEAL PROTEIN UTILIZING DIVERSITY IN CULTIVATED AND WILD SOYBEANS [MI]
177	\$105,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	SOYBEAN BREEDING AND GENETICS IMPROVEMENT FOR MICHIGAN ENVIRONMENTS
178	\$16,000	MICHIGAN SUGAR CO	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	EPIDEMIOLOGICAL STUDIES OF CERCOSPORA LEAF OF SUGAR BEET FOR IMPROVED MANAGEMENT
179	\$10,000	MICHIGAN SUGAR CO	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	DETERMINATION OF AZOXYSTROBIN SENSITIVITY IN MICHIGAN RHIZOCTONIA SOLANI POPULATIONS

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180	\$54,930	VARIOUS INDUSTRIES	Willbur, Jaime	PLANT SOIL AND MICROBIAL SCIENCES	WILLBUR PSM TESTING
181	\$25,000	ARCHITECTURE & URBAN RESEARCH INST	Kim, Jun Hyun	SCHOOL OF PLANNING DES CONSTRUCTION ANR	A CASE STUDY OF COMMUNITY RESILIENCE PLANNING AND DESIGN GUIDELINES FOR VULNERABLE URBAN AREAS
182	\$13,014	NATIONAL HOUSING ENDOWMENT	Mollaoglu, Sinem	SCHOOL OF PLANNING DES CONSTRUCTION ANR	2018 HELP- MSU CONSTRUCTION MANAGEMENT PROGRAM
183	\$999,670	US ENVIRONMENTAL PROTECTION AGENCY	Asher, Aaron	WATER RESEARCH INSTITUTE ANR	ACCELERATING NUTRIENT MANAGEMENT ADOPTION IN THE SAGINAW WATERSHED
184	\$23,006	KEWEENAW BAY OJIBWA COMMUNITY COLLEGE	Asher, Aaron	WATER RESEARCH INSTITUTE ANR	MODELING IN L'ANSE RESERVATION
COLLEGE OF ARTS AND LETTERS					
185	\$500,000	NATIONAL ENDOWMENT FOR THE HUMANITIES	Fitzpatrick, Kathleen	AL RESEARCH AND SCHOLARSHIP	HUMANITIES COMMONS
186	\$35,000	SAMUEL H KRESS FOUNDATION	Fitzpatrick, Kathleen	AL RESEARCH AND SCHOLARSHIP	EXPANDING OPEN NETWORKING IN ART AND ART HISTORY
187	\$18,787	NATIONAL SCIENCE FOUNDATION	O'Rourke, Michael	AL RESEARCH AND SCHOLARSHIP	A TOOLBOX "TRAIN THE TRAINER" WORKSHOP FOR THE C-ACCEL PROGRAM
188	\$42,500	UNIVERSITY OF MICHIGAN	Khalil, Mohammad	RELIGIOUS STUDIES	DIGITAL ISLAMIC STUDIES CURRICULUM (DISC)
ELI BROAD COLLEGE OF BUSINESS					
189	\$499,884	NATIONAL SCIENCE FOUNDATION	Scott, Brent	MANAGEMENT	IMPROVING OFFICER SAFETY AND DECISION-MAKING BY UNDERSTANDING AND HARNESSING WITHIN-OFFICER STATES AND BETWEEN-OFFICER TRAITS
COLLEGE OF COMMUNICATION ARTS SCIENCES					
190	\$10,433	UNIVERSITY OF DELAWARE	Ellithorpe, Morgan	ADVERTISING AND PUBLIC RELATIONS	MISLEADING MESSAGES, AMBIVALENT ATTITUDES: TEENS' HEALTH BELIEFS ON SPORTS DRINKS
191	\$15,567	NATIONAL SCIENCE FOUNDATION	Thorson, Kjerstin	ADVERTISING AND PUBLIC RELATIONS	DISSERTATION GRANT: CRITICAL ALGORITHMIC LITERACY: WORLD-BUILDING AROUND AND WITH ALGORITHMS
192	\$12,443	MICHIGAN COASTAL MANAGEMENT PROGRAM	Levine, Kenneth	COMMUNICATION	MCMP MARKETING & COMMUNICATIONS PLAN
193	\$75,000	NATIONAL ASSOC OF BROADCASTERS	David, Prabu	COMMUNICATION ARTS AND SCIENCES DEAN	A CONVERSATIONAL AGENT FOR BROADCASTERS

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194	\$137,795	NATIONAL INST OF HEALTH	Naghbolhosseini, Maryam	COMMUNICATIVE SCIENCES DISORDERS CAS	STUDYING THE LARYNGEAL MECHANISMS UNDERLYING DYSPHONIA IN CONNECTED SPEECH
195	\$15,500	NATIONAL INST OF HEALTH	Venker, Courtney	COMMUNICATIVE SCIENCES DISORDERS CAS	THE INFLUENCE OF VISUAL PERCEPTUAL SALIENCE ON WORD PROCESSING AND WORD LEARNING IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER
196	\$104,876	NATIONAL SCIENCE FOUNDATION	Van Osch, Wietske	MEDIA AND INFORMATION	CAREER: GENERATING GENERATIVITY: MODELING AND FOSTERING CREATIVE COLLABORATIONS IN ENTERPRISE SOCIAL MEDIA USING A CYBERINFRASTRUCTURE FOR SMART INNOVATION
197	\$108,063	NATIONAL SCIENCE FOUNDATION	Wyche, Susan	MEDIA AND INFORMATION	"CAREER: INFORMATION AND COMMUNICATION TECHNOLOGY USE IN COMMUNITIES WITH LIMITED TECHNICAL INFRASTRUCTURES,"
198	\$193,585	NATIONAL INST OF HEALTH	Wyche, Susan	MEDIA AND INFORMATION	BUILDING CAPACITY IN HUMAN-CENTERED DESIGN: DEVELOPING A DIABETES MHEALTH APPLICATION FOR AND WITH KENYAN ADOLESCENTS
COLLEGE OF EDUCATION					
199	\$500,000	FLINT COMMUNITY SCHOOLS	Beverly, Bryan	CED OUTREACH	FLINT COMMUNITY SCHOOLS / OFFICE OF K-12 OUTREACH FELLOWSHIP OF INSTRUCTIONAL LEADERS AGREEMENT
200	\$125,000	GOGEBIC ONTONAGON INTERMEDIATE SCHOOL DISTRICT	Beverly, Bryan	CED OUTREACH	BEYOND THE FOCUS GROUP: CULTIVATING STUDENT AGENCY AND LEADERSHIP
201	\$209,150	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Carlson, John	COUNSELING, EDUC PSYCH & SPEC EDUC	PLANNING AND EVALUATING A JUVENILE JUSTICE MENTAL HEALTH DIVERSION PILOT PROJECT
202	\$34,622	VANDERBILT UNIV	Cho, Eunsoo	COUNSELING, EDUC PSYCH & SPEC EDUC	NATIONAL CENTER FOR LEADERSHIP IN INTENSIVE INTERVENTION (NCLII)
203	\$133,013	MICHIGAN REHABILITATION SERVICES	Egidio, Rhonda	COUNSELING, EDUC PSYCH & SPEC EDUC	DHS/DTMB E-LEARN SYSTEM
204	\$17,139	UNIVERSITY OF WISCONSIN STOUT	Leahy, Michael	COUNSELING, EDUC PSYCH & SPEC EDUC	VOCATIONAL REHABILITATION TECHNICAL ASSISTANCE CENTER-PROGRAM EVALUATION AND QUALITY ASSURANCE (VRTAC-PEQA)
205	\$191,637	US DEPT OF EDUCATION	Lee, Ka Lai	COUNSELING, EDUC PSYCH & SPEC EDUC	MICHIGAN STATE UNIVERSITY MASTERS OF ARTS REHABILITATION COUNSELING PROGRAM
206	\$57,434	MICHIGAN REHABILITATION SERVICES	Sung, Connie	COUNSELING, EDUC PSYCH & SPEC EDUC	PROJECT SEARCH SUPPLEMENTAL PROGRAMS FOR ENHANCING TRANSITION STUDENTS' SUCCESS

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207	\$50,000	SOAR TECHNOLOGY INC	Torphy, Kaitlin	COUNSELING, EDUC PSYCH & SPEC EDUC	PHASE II SBIR RAPID CONSTRUCTION OF HETEROGENEOUS MODELS ("RACHEM")
208	\$245,000	DETROIT PUBLIC SCHOOLS	Reimann, Christopher	CREATE FOR STEM	DETROIT PS PROFESSIONAL DEVELOPMENT - MODIFICATION 001 & 002
209	\$95,633	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
210	\$25,000	VARIOUS SCHOOLS	Paine, Lynn	EDUCATION DEAN	CHINESE TEACHER CERTIFICATION PROGRAM
211	\$200,000	SMITH RICHARDSON FOUNDATION	Strunk, Katharine	EDUCATION POLICY CENTER	CAN MICHIGAN SHOW THE NATION HOW TO TURN AROUND FAILING SCHOOLS? A RESEARCH-POLICY PARTNERSHIP APPROACH IN MICHIGAN
212	\$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
213	\$49,484	UNIVERSITY OF CONNECTICUT	Mavrogordato, Madeline	EDUCATIONAL ADMINISTRATION	DISTRICT POLICIES RELATED TO PRINCIPAL EVALUATION, LEARNING-CENTERED LEADERSHIP, AND STUDENT ACHIEVEMENT
214	\$31,077	STRATEGIC EDUCATION RESEARCH PARTNERSHIP INSTITUTE	Al-Adeimi, Shireen	TEACHER EDUCATION	ACADEMICALLY PRODUCTIVE TALK: STRENGTHENING THE INFRASTRUCTURE FOR RESEARCH AND PRACTICE
215	\$90,000	UNIVERSITY OF MICHIGAN	Alonzo, Alicia	TEACHER EDUCATION	SL+: PARTNERING FOR EQUITABLE AND TRANSFORMATIVE PATHWAYS IN STEM
216	\$39,600	AMER COUNCILS FOR INTL EDUCATION	Hartman, Douglas	TEACHER EDUCATION	ENHANCING TEACHER PREPARATION AND TEACHING METHODOLOGIES IN RURAL KAZAKHSTAN: NEXT-GENERATION ENGLISH-LANGUAGE TEACHING FOR STEM TEACHERS
COLLEGE OF ENGINEERING					
217	\$223,809	US DEPT OF ENERGY	Boehlert, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	CHARACTERIZATION AND MODELING OF DEFORMATION INDUCED DAMAGE IN HEXAGONAL METALS
218	\$78,025	COLLABORATIVE COMPOSITE SOLUTIONS CORP	Boeman, Raymond	CHEMICAL ENGINEERING AND MATERIALS SCI	IACMI PROJECT 7.8: NEXT GENERATION CO-MOLDED ONE-PIECE COMPOSITE HOOD
219	\$200,000	NATIONAL SCIENCE FOUNDATION	Chan, Christina	CHEMICAL ENGINEERING AND MATERIALS SCI	RAPID: INTEGRATIVE ANALYSIS OF MULTI-OMICS DATA TO UNDERSTAND ACE2 REGULATION AND CYTOKINE STORM
220	\$430,375	NATIONAL INST OF HEALTH	Chan, Christina	CHEMICAL ENGINEERING AND MATERIALS SCI	AN IPSC-DERIVED NRSF-DEPENDENT EPIGENETIC MODEL OF NEUROPATHIC PAIN
221	\$102,550	NATIONAL SCIENCE FOUNDATION	Lai, Wei	CHEMICAL ENGINEERING AND MATERIALS SCI	CAREER: STRUCTURE-PROPERTY RELATIONSHIPS IN BI-FUNCTIONAL BATTERY MATERIALS

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222	\$10,000	MID MICHIGAN RESEARCH LLC	Lira, Carl	CHEMICAL ENGINEERING AND MATERIALS SCI	FUEL DEVELOPMENT FOR JETFIRE ENGINES
223	\$49,998	MICHIGAN CRAFT BEVERAGE COUNCIL	Morelli, Donald	CHEMICAL ENGINEERING AND MATERIALS SCI	FERMENTED BEVERAGE LAB AT MICHIGAN STATE UNIVERSITY
224	\$32,398	PLANTPET TECHNOLOGY COLLABORATIVE	Narayan, Ramani	CHEMICAL ENGINEERING AND MATERIALS SCI	GIFT - PLANTPET TECHNOLOGY COLLABORATIVE
225	\$79,769	NATIONAL SCIENCE FOUNDATION	Qi, Yue	CHEMICAL ENGINEERING AND MATERIALS SCI	COLLABORATIVE RESEARCH: PROMOTING OR SUPPRESSING SOLID-STATE PHASE TRANSFORMATION VIA INTERFACE CONTROL
226	\$10,000	NATIONAL SCIENCE FOUNDATION	Walton, S. Patrick	CHEMICAL ENGINEERING AND MATERIALS SCI	RESEARCH INITIATION: UNDERSTANDING THE IMPACT OF INSTITUTIONAL SUPPORTS ON THE MOTIVATION, BELONGING, IDENTITY DEVELOPMENT, AND PERSISTENCE OF ENGINEERING STUDENTS
227	\$59,998	NATIONAL SCIENCE FOUNDATION	Zevalkink, Alexandra	CHEMICAL ENGINEERING AND MATERIALS SCI	AGEP-GRS: TRAVELING SOLVENT CRYSTAL GROWTH OF ANISOTROPIC ZINTL THERMOELECTRICS
228	\$30,000	IOWA STATE UNIV	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	DETERMINING PAVEMENT DESIGN CRITERIA FOR RCA AND LSSB
229	\$10,000	IOWA STATE UNIV	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	USE OF CONCRETE GRINDING RESIDUE AS CONCRETE AND SOIL AMENDMENT-PHASE II
230	\$60,000	IOWA STATE UNIV	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	BASE STABILIZATION ADDITIVES – EFFECT ON GRANULAR EQUIVALENCY (GE)
231	\$69,785	NATIONAL SCIENCE FOUNDATION	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	COLLABORATIVE RESEARCH: BRIDGING THE GAP BETWEEN ACADEMIA AND INDUSTRY IN APPROACHES FOR SOLVING ILL-STRUCTURED PROBLEMS
232	\$205,511	NATIONAL SCIENCE FOUNDATION	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	COLLABORATIVE RESEARCH: A FRAMEWORK FOR ASSESSING THE IMPACT OF EXTREME HEAT AND DROUGHT ON URBAN ENERGY PRODUCTION AND CONSUMPTION
233	\$15,000	UNIVERSITY OF CONNECTICUT	Cupples, Alison	CIVIL AND ENVIRONMENTAL ENGINEERING	HIGH THROUGHPUT QUANTITATIVE AND SHOTGUN SEQUENCING OF RDX DEGRADING FUNCTIONAL GENES FROM BANGOR SITE A
234	\$328,204	US DEPT OF ENERGY	Dargazany, Roozbeh	CIVIL AND ENVIRONMENTAL ENGINEERING	A HYBRID PHYSICS-BASED DATA-DRIVEN APPROACH TO MODEL DAMAGE ACCUMULATION IN CORROSION OF POLYMERIC ADHESIVES

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235	\$73,847	IOWA STATE UNIV	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	2016 WORK ZONE SAFETY TRAINING GRANT
236	\$200,000	STATE OF NEVADA DEPT OF TRANSPORTATION	Gates, Timothy	CIVIL AND ENVIRONMENTAL ENGINEERING	TRAVELER EXPECTATIONS AND FUTURE USE OF HIGHWAY REST AREAS IN THE WESTERN UNITED STATES
237	\$20,729	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Ghamami, Mehrnaz	CIVIL AND ENVIRONMENTAL ENGINEERING	STATE-WIDE EFFECTS OF EV ADOPTION ON LIGHT DUTY
238	\$435,290	MICHIGAN DEPT OF TRANSPORTATION	Haider, Syed	CIVIL AND ENVIRONMENTAL ENGINEERING	TESTING PROTOCOL, DATA STORAGE, AND RE-CALIBRATION FOR PAVEMENT ME DESIGN
239	\$225,000	THERMAL WAVE IMAGING	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	RAPID NONDESTRUCTIVE INSPECTION OF TRADITIONALLY UNINSPECTABLE ADHESIVELY-FILLED COMPOSITE JOINTS
240	\$200,000	PPG INDUSTRIES INC	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	EXPERIMENTAL TESTING PLAN FOR POLYUREA ADHESIVE CHARACTERIZATION
241	\$150,000	AMER CHEMISTRY COUNCIL	Haq, Mahmoodul	CIVIL AND ENVIRONMENTAL ENGINEERING	MULTI-SENSOR, REUSABLE 'SMART-SKIN' FOR PROCESS MONITORING AND RAPID NDE
242	\$40,000	PRECAST PRESTRESSED CONCRETE INST	Kodur, Venkatesh	CIVIL AND ENVIRONMENTAL ENGINEERING	DESIGN SOLUTIONS FOR ENHANCING FIRE RESISTANCE OF UHPC STRUCTURAL MEMBERS USED IN BRIDGE APPLICATIONS
243	\$79,696	US GEOLOGICAL SURVEY	Mantha, Phanikumar	CIVIL AND ENVIRONMENTAL ENGINEERING	LINKING ENVIRONMENTAL METAGENOMICS, EDNA MONITORING AND HYDRODYNAMIC FATE AND TRANSPORT MODELING FOR THE GREAT LAKES
244	\$142,226	NATIONAL SCIENCE FOUNDATION	Tarabara, Volodymyr	CIVIL AND ENVIRONMENTAL ENGINEERING	COLLABORATIVE RESEARCH: IRES TRACK I: MATERIALS BASED INNOVATIONS FOR SUSTAINABLE WATER TREATMENT AND REUSE
245	\$20,000	CDM SMITH INC	Xagorarakis, Irene	CIVIL AND ENVIRONMENTAL ENGINEERING	SURVEILLANCE OF SARS-COV-2 IN DETROIT WASTEWATER
246	\$267,458	GREAT LAKES WATER AUTHORITY	Xagorarakis, Irene	CIVIL AND ENVIRONMENTAL ENGINEERING	SARS-COV-2 IN DETROIT: SURVEILLANCE AND PREDICTION
247	\$125,000	LOS ALAMOS NATL LABORATORY	Ravishankar, Saiprasad	COMPUTATIONAL MATH SCI AND ENGR EGR	METHODS FOR INVERSE PROBLEMS: MODELS, ALGORITHMS, MACHINE LEARNING, AND THEORY

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248	\$199,087	FORD MOTOR CO	Yu, Hui-Chia	COMPUTATIONAL MATH SCI AND ENGR EGR	MSU0162(2020)
249	\$99,998	FORD MOTOR CO	Boddeti, Vishnu	COMPUTER SCIENCE AND ENGINEERING	MSU0169 (2020)
250	\$30,000	GOODIX TECHNOLOGY INC	Jain, Anil	COMPUTER SCIENCE AND ENGINEERING	GIFT - GOODIX TECHNOLOGY INC
251	\$190,000	OFFICE OF NAVAL RESEARCH	Jain, Anil	COMPUTER SCIENCE AND ENGINEERING	DEEP LEARNING: INTEGRATING DOMAIN KNOWLEDGE AND INTERPRETING THE NETWORK DECISIONS
252	\$217,782	NATIONAL SCIENCE FOUNDATION	Kordjamshidi, Parisa	COMPUTER SCIENCE AND ENGINEERING	CAREER: COMBINING LEARNING AND REASONING FOR SPATIAL LANGUAGE UNDERSTANDING
253	\$66,000	ROBERT BOSCH LLC RESEARCH & TECHNOLOGY CENTER	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	COMPUTER VISION RESEARCH
254	\$145,349	US ARMY RESEARCH OFFICE	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	PERSON IDENTIFICATION AT A DISTANCE
255	\$70,000	WEST VIRGINIA UNIV	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	SUBJECT MATTER EXPERT (SME) SERVICE IN BIOMETRICS
256	\$1,582,230	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	PRESENTATION ATTACK DETECTION: SOLUTIONS FOR FINGERPRINTS, FACE AND IRIS SYSTEMS
257	\$94,000	UNIVERSITY OF NOTRE DAME	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	POST-MORTEM IRIS RECOGNITION
258	\$276,158	AMAZON	Tan, Pang-Ning	COMPUTER SCIENCE AND ENGINEERING	FAI: FAIRNESS-AWARE ALGORITHMS FOR NETWORK ANALYSIS
259	\$98,444	NATIONAL SCIENCE FOUNDATION	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	CAREER: SIGNED NETWORKS: MODELING, MEASURING, AND MINING
260	\$200,000	WRIGHT BROTHERS INST	Albrecht, John	ELECTRICAL AND COMPUTER ENGINEERING	A NON-UNIFORM DISTRIBUTED 2-40 GHZ LO AMPLIFIER WITH HIGH LINEARITY AND OUTPUT POWER FOR ULTRA-WIDEBAND MIXERS

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261	\$58,755	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER CENTER RENEWAL
262	\$45,000	HONEYWELL CORP	Chahal, Prem	ELECTRICAL AND COMPUTER ENGINEERING	METAMATERIAL DESIGNS FOR THZ AND IR APPLICATIONS
263	\$160,821	US ENVIRONMENTAL PROTECTION AGENCY	Deb, Kalyanmoy	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPMENT OF A MULTI-OBJECTIVE OPTIMIZATION TOOL FOR CHESAPEAKE BAY WATERSHED
264	\$20,000	ASSOC OF AMER RAILROADS	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	NDE DATA-DRIVEN RISK-INFORMED HEALTH MANAGEMENT FOR IN-MOTION TRACK STABILITY AND SERVICEABILITY ASSESSMENT
265	\$20,000	ASSOC OF AMER RAILROADS	Deng, Yiming	ELECTRICAL AND COMPUTER ENGINEERING	INTEGRATED MULTIWAVE HYBRID ELECTROMAGNETIC AND ULTRASONIC SENSING FOR REAL-TIME IN-MOTION RAILS FATIGUE AND FRACTURES DETECTION
266	\$206,975	OFFICE OF NAVAL RESEARCH	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	FIBER-OPTIC ULTRASONIC GENERATION AND SENSING
267	\$130,007	OFFICE OF NAVAL RESEARCH	Han, Ming	ELECTRICAL AND COMPUTER ENGINEERING	HIGHLY-MULTIPLEXED FIBER-OPTIC ACOUSTIC EMISSION SENSOR SYSTEM FOR ADAPTIVE STRUCTURAL HEALTH MONITORING
268	\$80,600	NATIONAL SCIENCE FOUNDATION	Mahapatra, Nihar	ELECTRICAL AND COMPUTER ENGINEERING	RAISE: C-ACCEL PILOT - TRACK B1: AI-BASED DECISION SUPPORT FOR LINKING WORKERS WITH FUTURE JOBS AND FOR PLANNING WORK TRANSITION AND CAREER PATHWAY
269	\$33,433	NATIONAL INST OF HEALTH	McGough, Robert	ELECTRICAL AND COMPUTER ENGINEERING	FAST NUMERICAL MODELING OF MEDICAL ULTRASOUND FOR THERAPY AND IMAGING
270	\$150,000	SANDIA NATIONAL LABORATORIES	Mitra, Joydeep	ELECTRICAL AND COMPUTER ENGINEERING	SANDIA PROJECT TBD
271	\$200,000	FORD MOTOR CO	Morris, Daniel	ELECTRICAL AND COMPUTER ENGINEERING	MSU0165 (2020)
272	\$12,711	UNIVERSITY OF MARYLAND	Mukkamala, Ramakrishna	ELECTRICAL AND COMPUTER ENGINEERING	ULTRA-CONVENIENT CARDIOVASCULAR RISK PREDICTORS MEASUREMENT BASED ON THE BALLISTOCARDIOGRAM
273	\$334,885	NATIONAL INST OF HEALTH	Mukkamala, Ramakrishna	ELECTRICAL AND COMPUTER ENGINEERING	A SMARTPHONE-BASED DEVICE FOR CUFF-LESS AND CALIBRATION-FREE BLOOD PRESSURE MONITORING

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274	\$188,167	PROCTER & GAMBLE CO	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	WIRELESS MEASUREMENT OF HUMAN-PRODUCT INTERACTIONS
275	\$197,369	FORD MOTOR CO	Radha, Hayder	ELECTRICAL AND COMPUTER ENGINEERING	ENHANCED IMAGING THROUGH SNOW AND RAIN REMOVAL FOR ACTIVE SAFETY AND AUTONOMOUS DRIVING
276	\$700,000	NATIONAL SCIENCE FOUNDATION	Srivastava, Vaibhav	ELECTRICAL AND COMPUTER ENGINEERING	RESHAPING MOTOR LEARNING IN HIGH-DIMENSIONAL TASKS VIA SOFT ROBOTIC PHYSICAL INTERACTIONS
277	\$30,000	PRINCETON UNIV	Srivastava, Vaibhav	ELECTRICAL AND COMPUTER ENGINEERING	RESILIENCE AND ROBUSTNESS IN ECOLOGICAL DISTRIBUTED DECISION-MAKING DYNAMICS
278	\$35,000	TOYOTA MOTOR ENGINEERING & MANUFACTURING OF NORTH AMERICA INC	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	DISTRIBUTED MONITORING OF INFLATABLE STRUCTURES
279	\$130,000	ELECTRIC POWER RESEARCH INST	Udpa, Lalita	ELECTRICAL AND COMPUTER ENGINEERING	SIMULATION MODEL FOR EDDY CURRENT SC TUBE INSPECTION
280	\$1,103,942	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Verboncoeur, John	ELECTRICAL AND COMPUTER ENGINEERING	MULTIPACTOR AND BREAKDOWN SUSCEPTIBILITY AND MITIGATION IN SPACE-BASED RF SYSTEMS
281	\$50,000	FACEBOOK INC	Zhang, Mi	ELECTRICAL AND COMPUTER ENGINEERING	EFFICIENT ON-DEVICE DISTRIBUTED DEEP LEARNING VIA IMPORTANCE SAMPLING
282	\$473,897	NATIONAL INST OF HEALTH	Contag, Christopher	INSTITUTE FOR QUANTITATIVE HEALTH	RAMAN MOLECULAR IMAGING FOR EARLY DETECTION OF COLON CANCER
283	\$50,000	METAVIVOR RESEARCH & SUPPORT, INC.	Makela, Ashley	INSTITUTE FOR QUANTITATIVE HEALTH	UNDERSTANDING EXTRACELLULAR VESICLE TRAFFICKING IN ESTABLISHED BREAST CANCER METASTASES: IN VIVO TRI-MODAL IMAGING PROVIDES LONGITUDINAL AND QUANTITATIVE INFORMATION ON ACCUMULATION IN METASTATIC SITE
284	\$37,261	NATIONAL INST OF HEALTH	Purcell, Erin	INSTITUTE FOR QUANTITATIVE HEALTH	STRUCTURAL AND FUNCTIONAL PLASTICITY SURROUNDING IMPLANTED NEUROPROSTHESES
285	\$470,751	NATIONAL SCIENCE FOUNDATION	Purcell, Erin	INSTITUTE FOR QUANTITATIVE HEALTH	CAREER: GENETIC APPROACHES TO ESTABLISH DESIGN RULES FOR IMPLANTABLE NEUROTECHNOLOGY
286	\$100,000	LEAFLABS	Saha, Debajit	INSTITUTE FOR QUANTITATIVE HEALTH	WILD:CARROT (WASP INSPIRED LOGIC DEVICE: CONNECTOME AND RNA PROFILES REPRESENTED ON TRANSISTORS)

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287	\$444,092	NATIONAL INST OF HEALTH	Spence, Dana	INSTITUTE FOR QUANTITATIVE HEALTH	FROM SINGLE MOLECULE TO MICROFLUIDIC 3D TISSUE PLATFORMS: NOVEL MULTISCALE TOOLS TO INVESTIGATE HYPER-STIMULATED IMMUNE CELLS IN THE CIRCULATION
288	\$250,000	YALE UNIV	Anthony, Rebecca	MECHANICAL ENGINEERING	REGROWTH AND SELECTIVE AREA GROWTH OF GAN FOR VERTICAL POWER ELECTRONICS
289	\$130,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Koochesfahani, Manoochehr	MECHANICAL ENGINEERING	ZBOT-2 THERMOMETRY DIAGNOSTICS DEVELOPMENT
290	\$565,018	NATIONAL INST OF HEALTH	Lee, Lik-Chuan	MECHANICAL ENGINEERING	ROLES OF ISCHEMIA AND MECHANICAL DYSSYNCHRONY IN OPTIMIZING CRT RESPONSES
291	\$30,000	DARTMOUTH COLLEGE	Mukherjee, Ranjan	MECHANICAL ENGINEERING	ADVANCES IN UNDERWATER MARINE TECHNOLOGY: NEW SOLUTIONS TO BIOFOULING
292	\$15,000	OFFICE OF NAVAL RESEARCH	Mukherjee, Ranjan	MECHANICAL ENGINEERING	PERFORMANCE OPTIMIZATION OF AN UNDERWATER VEHICLE PROPELLED BY A FLUTTERING TAIL
293	\$287,575	NATIONAL SCIENCE FOUNDATION	Nadimpalli, Siva	MECHANICAL ENGINEERING	CAREER: ELECTRO-CHEMO-MECHANICS OF POLYMER/ACTIVE MATERIAL INTERFACE FRACTURE
294	\$108,214	US ARMY RESEARCH OFFICE	Naguib, Ahmed	MECHANICAL ENGINEERING	SUPPLEMENTAL FUNDING: MECHANISMS OF FORCE AND MOMENT GENERATION BY THE FLOW OVER OSCILLATING RECTANGULAR CYLINDERS
295	\$518,038	US ARMY RESEARCH OFFICE	Petrasch, Joerg	MECHANICAL ENGINEERING	THERMOCHEMICAL LEADING-EDGE STABILIZATION WITH FUEL CO-PRODUCTION (THELES)
296	\$736,720	US DEPT OF ENERGY	Petrasch, Joerg	MECHANICAL ENGINEERING	SCALABLE THERMOCHEMICAL OPTION FOR RENEWABLE ENERGY STORAGE (STORES)
297	\$40,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Wichman, Indrek	MECHANICAL ENGINEERING	DEVELOPING THE NARROW CHANNEL APPARATUS AS A NASA STANDARD MATERIAL FLAMMABILITY TEST
298	\$284,984	OFFICE OF NAVAL RESEARCH	Yuan, Junlin	MECHANICAL ENGINEERING	SIMULATION AND MODELING OF EFFECTS OF ROUGH WALLS ON NON-EQUILIBRIUM TURBULENT BOUNDARY LAYERS
299	\$490,861	NATIONAL SCIENCE FOUNDATION	Yuan, Junlin	MECHANICAL ENGINEERING	FLUID-STRUCTURE INTERACTION, NONHOLONOMICITY, AND UNDULATORY SWIMMING
300	\$219,280	BROWN UNIV	Zayernouri, Mohsen	MECHANICAL ENGINEERING	FRACTIONAL PDES FOR CONSERVATION LAWS AND BEYOND: THEORY, NUMERICS AND APPLICATIONS
301	\$15,000	MID MICHIGAN RESEARCH LLC	Zhu, Guoming	MECHANICAL ENGINEERING	TESTING OF JP-8 FUEL IN A JETFIRE ENGINE
302	\$206,014	FORD MOTOR CO	Zhu, Guoming	MECHANICAL ENGINEERING	MSU0167 (2020)
COLLEGE OF HUMAN MEDICINE					

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303	\$17,450	BIG TEN CANCER RESEARCH CONSORTIUM	Rana, Jatin	CANCER CENTER	BTCRC-BRE-16-042 PHASE III STUDY OF PEMBROLIZUMAB PLUS FULVESTRANT IN HORMONE RECEPTOR POSITIVE HER-2 NEGATIVE ADVANCE/METASTATIC BREAST CANCER PATIENTS
304	\$114,551	UNIVERSITY OF MARYLAND	Felton, Julia	CHM FLINT	PEER RECOVERY COACH INTERVENTION TO IMPROVE ADHERENCE TO MAT AMONG UNDERSERVED INDIVIDUALS NOT ENGAGED IN CARE
305	\$555,934	FOUNDATION FOR OPIOID RESPONSE EFFORTS	Felton, Julia	CHM FLINT	TRAINING PEER RECOVERY COACHES TO PROMOTE RETENTION IN MOUD AMONG LOW-INCOME ADULTS
306	\$2,043,062	NATIONAL INST ON MINORITY HEALTH & HEALTH DISPARITIES	Furr-Holden, Debra	CHM FLINT	THE FLINT CENTER FOR HEALTH EQUITY SOLUTIONS
307	\$712,365	NATIONAL INST OF MENTAL HEALTH	Johnson, Jennifer	CHM FLINT	IMPLEMENTING TO SUSTAIN: DETERMINING THE MINIMUM NECESSARY INTERVENTION TO MAINTAIN A POSTPARTUM DEPRESSION PREVENTION PROGRAM (ROSE) IN CLINICS PROVIDING PRENATAL SERVICES TO LOW-INCOME WOMEN
308	\$8,239	BROWN UNIV	Johnson, Jennifer	CHM FLINT	TREATMENT DEVELOPMENT OF YOGA FOR ANGER MANAGEMENT IN INCARCERATED ADULTS
309	\$222,813	NATIONAL INST OF ALCOHOL ABUSE & ALCOHOLISM	Sadler, Richard	CHM FLINT	THE LEGACY EFFECTS OF DISCRIMINATORY HOUSING POLICIES ON COMMUNITY AVAILABILITY OF ALCOHOL
310	\$250,500	ROBERT WOOD JOHNSON FOUNDATION	Sneed, Rodlescia	CHM FLINT	THE POTENTIAL IMPACT OF MEDICAID WORK REQUIREMENTS ON ADULTS AGES 51-64
311	\$118,045	NATIONAL INST ON DRUG ABUSE	Brincks, Ahnalee	EPIDEMIOLOGY AND BIOSTATISTICS	DEVELOPING METHODS TO ESTIMATE MEDIATION EFFECTS IN ADAPTIVE INTERVENTIONS
312	\$988,470	NATIONAL INST OF HEALTH	Chen, Honglei	EPIDEMIOLOGY AND BIOSTATISTICS	PESTICIDES, OLFACTION, AND NEURODEGENERATION AMONG US FARMERS
313	\$48,798	MUNSON MEDICAL CENTER	Kerver, Jean	EPIDEMIOLOGY AND BIOSTATISTICS	CORE: COMMUNITY OPIOID RECOVERY EXPANSION
314	\$148,888	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Lenski, Madeleine	EPIDEMIOLOGY AND BIOSTATISTICS	ENVIRONMENT, EPIGENETICS, NEURODEVELOPMENT & HEALTH IN EXTREMELY PRETERM CHILDREN
315	\$18,749	UNIVERSITY OF FLORIDA	Li, Chenxi	EPIDEMIOLOGY AND BIOSTATISTICS	METHODS AND SOFTWARE FOR HIGH-DIMENSIONAL RISK PREDICTION RESEARCH
316	\$76,611	TAKEDA PHARMACEUTICAL CO LTD	Paneth, Nigel	EPIDEMIOLOGY AND BIOSTATISTICS	COVID-19 FOLLOW-UP
317	\$149,204	NATIONAL INST OF HEALTH	Todem, David	EPIDEMIOLOGY AND BIOSTATISTICS	LONGITUDINAL ANALYSIS OF DENTAL CARIES INDICES IN INNER-CITY AFRICAN-AMERICAN CHILDREN
318	\$246,303	NATIONAL INST OF HEALTH	Upson, Kristen	EPIDEMIOLOGY AND BIOSTATISTICS	INFLUENCE OF DIET, IRON STORES, AND TOXIC METALS ON UPTAKES AND EFFECTS ON UTERINE FIBROID RISK IN AFRICAN AMERICAN WOMEN

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319	\$61,374	UNIVERSITY OF TEXAS AT AUSTIN	Vazquez, Ana	EPIDEMIOLOGY AND BIOSTATISTICS	USING METABOLOMICS TO DEFINE THE BEHAVIORAL PHENOMICS OF ENERGY BALANCE AND EXERCISE RESPONSE
320	\$10,000	TRINITY HEALTH	Arnetz, Judith	FAMILY MEDICINE, DEPARTMENT OF	SPREADING A CULTURE OF EMPATHY AND INTERPERSONAL SKILLS TO PREVENT VIOLENCE FROM PATIENTS
321	\$150,000	CHILDHOOD ARTHRITIS & RHEUMATOLOGY RESEARCH ALLIANCE (CARRA)	Cunningham, Natoshia	FAMILY MEDICINE, DEPARTMENT OF	A REMOTELY DELIVERED CBT INTERVENTION FOR YOUTH WITH CSLE: A MULTI-SITE PATIENT-ENGAGED INVESTIGATION
322	\$499,984	MICHIGAN HEALTH ENDOWMENT FUND	Haque, Raza	FAMILY MEDICINE, DEPARTMENT OF	GREETS: GERIATRIC RURAL EXTENSION OF EXPERTISE THROUGH TELEGERIATRIC SERVICES
323	\$7,444	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Ilardo, Joan	HUMAN MEDICINE DEAN	CAREGIVER RESOURCE COLLABORATIVE
324	\$30,629	SHIRLEY RYAN ABILITYLAB	Kozlowski, Allan	HUMAN MEDICINE DEAN	DEFINING TRAJECTORIES OF LINGUISTIC, COGNITIVE-COMMUNICATIVE AND QUALITY OF LIFE OUTCOMES IN APHASIA
325	\$10,267	RUTGERS UNIV	Arora, Ripla	INSTITUTE FOR QUANTITATIVE HEALTH	INNATE IMMUNE MECHANISMS AT THE MATERNAL-FETAL INTERFACE IN NORMAL AND SUPEROVULATORY PREGNANCY
326	\$249,000	NATIONAL INST OF HEALTH	Schmidt, Jens	INSTITUTE FOR QUANTITATIVE HEALTH	MOLECULAR MECHANISMS OF TELOMERASE CATALYSIS AND ITS RECRUITMENT TO TELOMERES
327	\$16,857	NATIONAL CANCER INST	Sempere, Lorenzo	INSTITUTE FOR QUANTITATIVE HEALTH	CHEMICAL ABLATION OF DUCTAL TREE FOR BREAST CANCER PREVENTION
328	\$78,250	NATIONAL INST OF HEALTH	Wang, Ping	INSTITUTE FOR QUANTITATIVE HEALTH	MAGNETIC PARTICLE IMAGING OF TRANSPLANTED ISLETS IN TYPE 1 DIABETES ANIMAL MODELS
329	\$5,810	UNIVERSITY OF MONTANA	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	MOLECULAR IMAGING OF CHEMICAL THREATS AND COUNTERMEASURE
330	\$13,170	BIG TEN CANCER RESEARCH CONSORTIUM	Hrinczenko, Borys	MEDICINE	PHASE II STUDY OF CONSOLIDATION IMMUNOTHERAPY WITH NIVOLUMAB AND IPILIMUMAB OR NIVOLUMAB ALONE FOLLOWING CONCURRENT CHEMORADIOOTHERAPY FOR UNRESECTABLE STAGE IIIA/IIIB NON-SMALL CELL LUNG CANCER (NSCLC)
331	\$139,274	MATERION CORP	Rosenman, Kenneth	MEDICINE	NATURAL HISTORY OF CHRONIC BERYLLIUM DISEASE/BERYLLIUM SENSITIZATION
332	\$21,500	ASSOC OF OCCUPATIONAL & ENVIRONMENTAL CLINICS	Rosenman, Kenneth	MEDICINE	OEC EXPOSURE CODE SYSTEM UPDATES

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333	\$96,236	UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	DEVELOPMENT OF RNAI BASED SFLT1-TARGETING THERAPEUTICS FOR TREATMENT OF PREECLAMPSIA
334	\$364,225	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ROLE OF MICRORNA IN THE PATHOPHYSIOLOGY OF ENDOMETRIOSIS
335	\$20,000	SOCIETY FOR REPRODUCTIVE INVESTIGATION	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	NONSTEROIDAL TREATMENT FOR ENDOMETRIOSIS
336	\$321,625	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	RISK FACTORS FOR EARLY PREGNANCY LOSS
337	\$50,000	UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER	Kim, Tae Hoon	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	PROGESTERONE RESISTANCE AND DEVELOPING NON-SURGICAL THERAPY FOR ENDOMETRIAL HYPERPLASIA
338	\$287,558	NATIONAL INST OF HEALTH	Latham, Keith	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	REPRODUCTIVE AND DEVELOPMENTAL SCIENCES TRAINING PROGRAM - T32
339	\$547,750	ERASCA INC	MacKeigan, Jeffrey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	IDENTIFICATION OF A SELECTIVE BIOAVAILABLE ULK1/2 INHIBITOR
340	\$625,973	NATIONAL INST OF HEALTH	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	WHAT IS ENDOMETRIOSIS? DEEP PHENOTYPING TO ADVANCE DIAGNOSIS AND TREATMENT
341	\$667,606	NATIONAL INST OF HEALTH	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	INFERTILITY HISTORY AND CHRONIC DISEASE PROFILE
342	\$14,045	FRED HUTCHINSON CANCER RESEARCH CENTER	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	AN AHEI DIETARY INTERVENTION TO REDUCE PAIN IN WOMEN WITH ENDOMETRIOSIS
343	\$338,625	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	SERVICE ENHANCEMENT FOR OPIOID USE DISORDERS
344	\$39,832	SPECTRUM HEALTH SYSTEM	Strutz, Kelly	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	HEALTHY START INITIATIVE: ELIMINATING DISPARITIES IN PERINATAL HEALTH
345	\$527,475	NATIONAL INST OF HEALTH	Teixeira, Jose	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	PATIENT-SPECIFIC TARGETING OF UTERINE FIBROIDS

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346	\$234,750	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Teixeira, Jose	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	MYOMETRIAL STEM CELLS
347	\$169,087	NATIONAL INST OF HEALTH	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	INTEGRATING TRANSCRIPTOMIC, PROTEOMIC AND PHARMACOGENOMIC DATA TO INFORM INDIVIDUALIZED THERAPY IN CANCERS
348	\$58,210	NATIONAL INST OF HEALTH	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	DRUG BIOMARKER RESOURCES FOR PRECISE TRANSLATIONAL RESEARCH
349	\$10,820	BIOVERATIV THERAPEUTICS INC	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	EFC16293 XTEND-1: A PHASE 3 OPEN LABEL, MULTICENTER STUDY OF THE SAFETY, EFFICACY, PHARMACOKINETICS OF RFVIIIIFC-VWF-XTEN;BVV001 IN PREVIOUSLY TREATED PATIENTS 12 YO OR OLDER WITH SEVERE HEMOPHILIA A
350	\$6,770	HEMOPHILIA ALLIANCE	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	THE HEMOPHILIA ALLIANCE FOUNDATION GRANT
351	\$8,000	HEMOPHILIA ALLIANCE	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	HEMOPHILIA ALLIANCE FOUNDATION
352	\$5,100	UNIQUIRE BIOPHARMA B.V.	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	(CT-AMT-061-02) PHASE III, OPEN-LABEL, SINGLE-DOSE, MULTI-CENTER MULTINATIONAL TRIAL INVESTIGATING AN A SEROTYPE 5 ADENO-ASSOCIATED VIRAL VECTOR CONTAINING THE PADUA VARIANT OF A CODON-OPTIMIZED.....
353	\$8,040	BIOMARIN PHARMACEUTICAL INC	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	BIOMARIN STUDY 270-902
354	\$84,000	CYSTIC FIBROSIS FOUNDATION	Li, Xiaopeng	PEDIATRICS AND HUMAN DEVELOPMENT	AAV4 AS A DELIVERY VECTOR FOR GENE THERAPY OF CF LUNG DISEASE
355	\$12,177	CYSTIC FIBROSIS FOUNDATION	Thomas, Ryan	PEDIATRICS AND HUMAN DEVELOPMENT	MSU CF CENTER PROGRAM FOR ADULT CARE EXCELLENCE GRANT 2019
356	\$249,000	NATIONAL INST OF MENTAL HEALTH	Williams, Michael	PEDIATRICS AND HUMAN DEVELOPMENT	THE ROLE OF KIT SIGNALING IN CEREBELLAR DEVELOPMENT
357	\$345,610	NATIONAL INST OF HEALTH	Galligan, James	PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE	IDENTIFICATION OF ENTERIC NERVE CIRCUITS CONTROLLING GUT MOTILITY
358	\$362,779	NATIONAL INST OF HEALTH	Rockwell, Cheryl	PHARMACOLOGY & TOXICOLOGY HUMAN MEDICINE	THE ROLE OF NRF2 IN IMMUNE CELL POLARIZATION AND ALLERGIC DISEASE

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359	\$175,148	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	ADULT MEDICAID QUALITY CONTRACEPTIVES PROJECT
360	\$113,598	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Oberst, Kathleen	THE INSTITUTE FOR HEALTH POLICY	HEALTHY BEHAVIORS AS PART OF HEALTHY MICHIGAN PLAN
361	\$40,468	NATIONAL INST OF HEALTH	Collier, Kathy	TRANSLATIONAL NEUROSCIENCE	IMPACT OF DYSFUNCTIONAL BDNF ON DOPAMINE TERMINAL REMODELING IN THE PARKINSONIAN STRIATUM
362	\$352,125	US DEPT OF THE ARMY	Combs, Benjamin	TRANSLATIONAL NEUROSCIENCE	TAU TOXICITY AND RETROGRADE AXONAL TRANSPORT
363	\$9,800	MICHIGAN ALZHEIMERS DISEASE RESEARCH CENTER	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	MAGNETIC PROPERTIES OF MICROVASCULAR LESIONS AS POTENTIAL BIOMARKERS FOR DEMENTIA
364	\$39,187	UNIVERSITY OF MICHIGAN	Counts, Scott	TRANSLATIONAL NEUROSCIENCE	MICHIGAN ALZHEIMER'S DISEASE CORE CENTER
365	\$527,028	NATIONAL INST OF HEALTH	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	TAU-MEDIATED REGULATION AND DYSREGULATION OF PROTEIN PHOSPHATASE 1
366	\$64,926	NATIONAL INST OF ENVIRONMENTAL HEALTH SCIENCES	Kochmanski, Joseph	TRANSLATIONAL NEUROSCIENCE	DEVELOPMENTAL PESTICIDE EXPOSURE AND EPIGENETIC AGING IN THE BRAIN
367	\$70,842	SAINT MARYS FOUNDATION	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	ENHANCEMENT OF ONGOING PARKINSON'S DISEASE MULTI-SITE CLINICAL TRIAL
368	\$13,489	WESTON BRAIN INST	Sortwell, Caryl	TRANSLATIONAL NEUROSCIENCE	ADVISOR SUPPORT AGREEMENT (2020)
369	\$248,693	NATIONAL INST OF HEALTH	Vega, Irving	TRANSLATIONAL NEUROSCIENCE	BRAIN MICROBIAL PROTEOME IN NORMAL AGING AND ALZHEIMER'S DISEASE
LYMAN BRIGGS COLLEGE					
370	\$103,214	NATIONAL SECURITY AGENCY	Bell, Robert	LYMAN BRIGGS DEAN	RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU)
COLLEGE OF NATURAL SCIENCE					
371	\$82,970	HUMAN FRONTIER SCIENCE PROGRAM	Dickson, Alexander	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	DEFINING THE CAPACITY OF CELLS TO KEEP THE PROTEOME FOLDED OVER SPACE AND TIME
372	\$377,367	NATIONAL INST OF HEALTH	Feig, Michael	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MODELING AND DYNAMICS OF BIOMOLECULES ON CELLULAR SCALES

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373	\$333,610	NATIONAL INST OF HEALTH	He, Jin	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	EPIGENETIC MECHANISMS OF ASH1L IN TRANSCRIPTIONAL ACTIVATION
374	\$73,000	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Hoffmann-Benning, Susanne	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	IDENTIFICATION OF A LANTERNFLY ATTRACTANT/REPELLANT FROM PHLOEM SAP
375	\$880,000	NATIONAL SCIENCE FOUNDATION	Hoogstraten, Charles	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	PATHWAYS TO TERTIARY STRUCTURE INTERFACES IN RNA: AN INTEGRATED NMR, BIOCHEMICAL, AND COMPUTATIONAL APPROACH
376	\$288,914	NATIONAL INST OF HEALTH	Hu, Jian	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	STRUCTURAL AND MECHANISTIC CHARACTERIZATION OF THE ZIP METAL TRANSPORTERS
377	\$154,961	UNIVERSITY OF MEMPHIS	Jones III, Arthur	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	EFFECT OF PRENATAL COMPOUNDS ON ADULT LUNG FUNCTION VIA NEONATAL DNA METHYLATION
378	\$305,893	NATIONAL SCIENCE FOUNDATION	Kroos, Lee	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MECHANISMS DRIVING EMERGENT BEHAVIORS DURING MYXOCOCCUS XANTHUS DEVELOPMENT
379	\$320,125	NATIONAL INST OF HEALTH	Kroos, Lee	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	INTRAMEMBRANE-CLEAVING METALLOPROTEASES OF BACILLUS SUBTILIS
380	\$436,696	NATIONAL INST OF HEALTH	Kuo, Min	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	HYPERPHOSPHORYLATED TAU AGGREGATION-BASED ALZHEIMER'S DISEASE EARLY DRUG DISCOVERY
381	\$305,337	NATIONAL INST OF HEALTH	Martinez Hackert, Erik	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	TGF- SIGNALING AND REGULATION: ELUCIDATING MOLECULAR MECHANISMS AND PATHOGENIC FUNCTIONS OF THE 'CO-RECEPTOR' CRIPTO-1 AND THE RECEPTOR BMPRII
382	\$131,790	BAYLOR COLLEGE OF MEDICINE	Mias, George	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	INTEGRATIVE PERSONALIZED OMICS PROFILING NEXT STEPS: DETECTION AND CLASSIFICATION OF DEVIATIONS FROM WELLNESS
383	\$163,200	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
384	\$59,720	UNIVERSITY OF MINNESOTA	Quinn, Robert	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	IN VIVO MICROBIAL ACTIVITY ASSOCIATED WITH CF CLAD
385	\$382,010	NATIONAL INST OF HEALTH	Ralston, Amy	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MOLECULAR MECHANISMS REGULATING FORMATION OF DIVERSE STEM CELL PROGENITORS

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386	\$103,783	NATIONAL SCIENCE FOUNDATION	TerAvest, Michaela	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	CAREER: A NOVEL MICROBIAL ELECTROSYNTHESIS PLATFORM BUILT ON A MODEL ELECTRON TRANSFER PATHWAY
387	\$342,194	NATIONAL INST OF HEALTH	Zacharewski, Timothy	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	AHR-DEPENDENT PKM2 REGULATION IN NAFLD PROGRESSION
388	\$399,702	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY	Dantus, Marcos	CHEMISTRY	SUPER-PHOTOREAGENTS AS A GATEWAY TO PRECISION CHEMISTRY
389	\$42,000	NATIONAL SCIENCE FOUNDATION	Dantus, Marcos	CHEMISTRY	REU SUPPLEMENT QLC: EAGER: QUANTUM CONTROL OF ENERGY TRANSFER PATHWAYS AND CHEMICAL REACTIONS
390	\$75,000	UNIVERSITY OF MICHIGAN	Hamann, Thomas	CHEMISTRY	MONOLITHICALLY INTEGRATED THIN-FILM/SILICON TANDEM PHOTOELECTRODES FOR HIGH EFFICIENCY AND STABLE PHOTOELECTROCHEMICAL WATER SPLITTING
391	\$136,588	OFFICE OF NAVAL RESEARCH	Harel, Elad	CHEMISTRY	ULTRASENSITIVE AND RAPID MULTI-DIMENSIONAL SPECTRAL SENSING AT STANDOFF DISTANCES BY NON-UNIFORM SAMPLING AND STATISTICAL RECONSTRUCTION
392	\$446,307	NATIONAL INST OF HEALTH	Huang, Xuefei	CHEMISTRY	ENGINEERING BACTERIOPHAGE Q CONJUGATES WITH TUMOR ASSOCIATED CARBOHYDRATE ANTIGENS AS MULTI-COMPONENT ANTI-CANCER VACCINES
393	\$88,640	US DEPT OF ENERGY	Levine, Benjamin	CHEMISTRY	A MULTIREFERENCE APPROACH TO ELECTRON AND ELECTRON-NUCLEAR DYNAMICS IN NANOMATERIALS
394	\$192,522	US DEPT OF ENERGY	McCusker, James	CHEMISTRY	SYNTHESIS AND SPECTROSCOPY OF TRANSITION METAL-BASED CHROMOPHORES: TAILORING FIRST-ROW PHOTOPHYSICS FOR APPLICATIONS IN SOLAR ENERGY CONVERSION
395	\$490,000	NATIONAL SCIENCE FOUNDATION	Odom, Aaron	CHEMISTRY	DEVELOPING METHODS FOR REACTION MODELING TO TUNE CATALYSTS FOR SUBSTRATE VARIABILITY
396	\$372,932	NATIONAL INST OF HEALTH	Proshlyakov, Denis	CHEMISTRY	CERAMIDE-MEDIATED MITOCHONDRIAL DAMAGE IN DIABETIC RETINOPATHY INVESTIGATED BY NOVEL MICROFLUIDIC O ₂ SENSING AND BIO-MIMETIC ELECTROCHEMISTRY
397	\$239,904	FIBERTEC INC	Staples, Richard	CHEMISTRY	CRYSTALLOGRAPHIC TESTING
398	\$329,005	NATIONAL INST OF HEALTH	Sun, Liangliang	CHEMISTRY	QUANTITATIVE PROTEOMICS OF ZEBRAFISH EMBRYOS AND BLASTOMERES
399	\$50,000	US ARMY RESEARCH OFFICE	Swain, Greg	CHEMISTRY	SPECTROELECTROCHEMICAL STUDIES OF REDOX REACTIONS AND ELECTRIFIED INTERFACES AT CARBON ELECTRODES
400	\$137,000	NATIONAL SCIENCE FOUNDATION	Chen, Min	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: MODIFICATION OF A CONTINENT: SEISMIC TOMOGRAPHY AND IMAGING OF THE NORTHERN AMERICAN LITHOSPHERE

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401	\$47,000	OFFICE OF NAVAL RESEARCH	Christlieb, Andrew	COMPUTATIONAL MATH SCI AND ENGR CNS	HIGH ORDER SCALABLE SOLVERS
402	\$40,000	PACIFIC NORTHWEST NATIONAL LABORATORY	Lei, Huan	COMPUTATIONAL MATH SCI AND ENGR CNS	IMPROVING ACCURACY THROUGH TIGHTER COUPLING BETWEEN ATMOSPHERIC PROCESSES
403	\$9,515	NATIONAL SCIENCE FOUNDATION	O'Shea, Brian	COMPUTATIONAL MATH SCI AND ENGR CNS	TRAVEL GRANT FOR LRAC PROPOSAL AST20004: THE ROLE OF LOW COLLISIONALITY IN COMPRESSIBLE, MAGNETIZED TURBULENCE
404	\$76,700	NATIONAL SCIENCE FOUNDATION	Perea, Jose	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: MACHINE LEARNING, MAPPING SPACES, AND OBSTRUCTION THEORETIC METHODS IN TOPOLOGICAL DATA ANALYSIS
405	\$161,986	NATIONAL SCIENCE FOUNDATION	Wang, Jianrong	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: DELINEATE CONTEXT-SPECIFIC GENE REGULATION IN 3D CHROMATIN SPACE
406	\$145,000	NATIONAL SCIENCE FOUNDATION	Haudek, Kevin	CREATE FOR STEM	COLLABORATIVE RESEARCH: DEVELOPING A NEXT GENERATION CONCEPT INVENTORY USING CONSTRUCTED RESPONSE FOR EVALUATING STUDENT KNOWLEDGE OF COMPLEX FEW SYSTEMS IN ENVIRONMENTAL EDUCATION
407	\$20,574	MICHIGAN WHEAT PROGRAM	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	STRATEGIC AND TACTICAL N MANAGEMENT USING DRONE IMAGES AND CROP MODELING TO INCREASE PROTEIN CONTENT AND GRAIN QUALITY IN WHEAT YR 2
408	\$19,285	OHIO STATE UNIV	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	QUANTIFYING ARCTIC MASS WASTING USING ARCTICDEM
409	\$43,243	US GEOLOGICAL SURVEY	Freymueller, Jeffrey	EARTH AND ENVIRONMENTAL SCIENCES	INTERGOVERNMENTAL PERSONNEL AGREEMENT WITH USGS
410	\$136,561	MICHIGAN TECHNICAL RESEARCH INST	Hyndman, David	EARTH AND ENVIRONMENTAL SCIENCES	QUANTIFYING HOW GLOBAL CHANGE AND LAND USE LEGACIES AFFECT ECOSYSTEM PROCESSES AT THE LAND WATER INTERFACE ACROSS THE GREAT LAKES BASIN
411	\$12,635	PLANETARY SCIENCE INSTITUTE	Jacobson, Seth	EARTH AND ENVIRONMENTAL SCIENCES	THE SUBLIMATION-DRIVEN MIGRATION OF SMALL TERRESTRIAL PLANETS
412	\$161,000	UNIVERSITY OF ALASKA	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	KAZAKHSTAN DIGITIZATION EFFORT CONTINUATION
413	\$350,000	US DEPT OF STATE	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	MANGYSTAU ARRAY (MSUAR) LOCATION OPTIMIZATION STUDY

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414	\$151,134	LAWRENCE LIVERMORE NATIONAL LABORATORY	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	LLNL SEISMIC COOPERATION PROGRAM - PROPOSED MSU PROJECT FOR FY2020
415	\$14,719	CALIFORNIA INST OF TECHNOLOGY	Velbel, Michael	EARTH AND ENVIRONMENTAL SCIENCES	ISOLATING AND UNDERSTANDING SPECTRALLY ACTIVE CONSTITUENTS IN CARBONACEOUS CHONDRITES: LINKING METEORITE TO TELESCOPIC AND SPACECRAFT DATA
416	\$253,232	NATIONAL SCIENCE FOUNDATION	Holekamp, Kay	INTEGRATIVE BIOLOGY	OPUS: CRS - THE EVOLUTIONARY ECOLOGY OF THE SPOTTED HYENA
417	\$8,251	UNIVERSITY OF CALIFORNIA DAVIS	Meek, Mariah	INTEGRATIVE BIOLOGY	DEVELOPMENT OF SHERLOCK TECHNOLOGY FOR CHINOOK SALMON RUN TYPING
418	\$46,500	SCRIPPS RESEARCH INST	Miller, Kyle	INTEGRATIVE BIOLOGY	DYNEIN-DYNACTIN COMPLEX MEDIATED RETROGRADE TRANSPORT DURING LONG-TERM MEMORY
419	\$782,676	NATIONAL SCIENCE FOUNDATION	Zipkin, Elise	INTEGRATIVE BIOLOGY	IIBR INFORMATICS: A GENERALIZED MODELING FRAMEWORK FOR INTEGRATING MULTI-SPECIES DATA SOURCES TO ESTIMATE BIODIVERSITY PROCESSES
420	\$75,000	DOROTHY U DALTON FOUNDATION	Conner, Jeffrey	KELLOGG BIOLOGICAL STATION NAT SCI	KELLOGG BIRD SANCTUARY FACILITY RENOVATIONS
421	\$66,212	NATIONAL SCIENCE FOUNDATION	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT SCI	RET SUPPLEMENT TO DEB 1832042 - MECHANISMS OF RESILIENCE IN AGRICULTURAL LANDSCAPES
422	\$31,500	WILBURFORCE FOUNDATION	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT SCI	VISION FOR CONSERVATIONCORRIDOR.ORG, 2020-2021
423	\$90,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Litchman, Elena	KELLOGG BIOLOGICAL STATION NAT SCI	MODELING THE EVOLUTIONARY EMERGENCE OF DIVERSE MICROBIAL METABOLISMS
424	\$22,000	NATIONAL SCIENCE FOUNDATION	Kachkovskiy, Ilya	MATHEMATICS	COLLABORATIVE RESEARCH: THE 2020 & 2021 GREAT LAKES MATHEMATICAL PHYSICS MEETINGS
425	\$368,548	NATIONAL SCIENCE FOUNDATION	Kalfagianni, Efstratia	MATHEMATICS	GEOMETRIC AND QUANTUM STRUCTURES OF 3-MANIFOLDS
426	\$113,188	NATIONAL SCIENCE FOUNDATION	Levin, Aaron	MATHEMATICS	GREATEST COMMON DIVISORS, INTEGRAL POINTS, AND DIOPHANTINE APPROXIMATION
427	\$42,000	NATIONAL SCIENCE FOUNDATION	Nelson, Brent	MATHEMATICS	GROUNDWORK FOR OPERATOR ALGEBRAS LECTURE SERIES (GOALS) 2020
428	\$111,226	NATIONAL SCIENCE FOUNDATION	Volberg, Alexander	MATHEMATICS	COLLABORATIVE RESEARCH: WEIGHTED ESTIMATES WITH MATRIX WEIGHTS AND NON-HOMOGENEOUS HARMONIC ANALYSIS
429	\$37,500	WAYNE STATE UNIV	Wei, Guowei	MATHEMATICS	MAID2: MATHEMATICAL ARTIFICIAL INTELLIGENCE FOR DRUG DISCOVERY

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430	\$191,999	NATIONAL INST OF HEALTH	Abramovitch, Robert	MICROBIOLOGY MOLECULAR GENETICS CNS	DEVELOPMENT OF NEW M. TUBERCULOSIS MMPL3 INHIBITORS
431	\$423,879	NATIONAL INST OF HEALTH	Crosson, Sean	MICROBIOLOGY MOLECULAR GENETICS CNS	MOLECULAR MECHANISMS CONTROLLING STRESS RESPONSES AND CELL ADHESION IN BACTERIA
432	\$193,750	NATIONAL INST OF HEALTH	Hammer, Neal	MICROBIOLOGY MOLECULAR GENETICS CNS	ISOPRENOID SYNTHESIS AND ALLOCATION IN STAPHYLOCOCCUS AUREUS
433	\$447,725	NATIONAL INST OF HEALTH	Hammer, Neal	MICROBIOLOGY MOLECULAR GENETICS CNS	ELUCIDATING STRATEGIES OF STAPHYLOCOCCUS AUREUS NUTRIENT SULFUR ACQUISITION DURING INFECTION
434	\$70,106	NATIONAL INST OF HEALTH	Hausinger, Robert	MICROBIOLOGY MOLECULAR GENETICS CNS	NICKEL-PINCER NUCLEOTIDE ENZYMES
435	\$335,223	NATIONAL INST OF HEALTH	Hausinger, Robert	MICROBIOLOGY MOLECULAR GENETICS CNS	NICKEL-PINCER NUCLEOTIDE ENZYMES
436	\$600,000	NATIONAL SCIENCE FOUNDATION	Lenski, Richard	MICROBIOLOGY MOLECULAR GENETICS CNS	LTREB RENEWAL: THE LONG-TERM EVOLUTION EXPERIMENT WITH ESCHERICHIA COLI
437	\$191,907	NATIONAL INST OF HEALTH	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	MECHANISMS OF MHCII EXPRESSION AND CD4+ T CELL ACTIVATION DURING CHLAMYDIA TRACHOMATIS INFECTION
438	\$191,999	NATIONAL INST OF HEALTH	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	DEFINING RESISTANCE AND TOLERANCE MECHANISMS IN HYPER-SUSCEPTIBLE MICE DURING M. TUBERCULOSIS INFECTION
439	\$310,000	US DEPT OF DEFENSE	Olive, Andrew	MICROBIOLOGY MOLECULAR GENETICS CNS	MODULATION OF T CELL ACTIVATION DURING MYCOBACTERIUM TUBERCULOSIS INFECTION
440	\$135,572	OFFICE OF NAVAL RESEARCH	Reguera, Gemma	MICROBIOLOGY MOLECULAR GENETICS CNS	THE OTIC MICROBIOME AND ITS ROLE IN MIDDLE EAR DECOMPRESSION AND BAROTRAUMA PREVENTION
441	\$208,917	UNIVERSITY OF IOWA	Schutte, Brian	MICROBIOLOGY MOLECULAR GENETICS CNS	DISSECTING THE TRANSCRIPTIONAL NETWORK GOVERNING DIFFERENTIATION OF PERIDERM
442	\$32,271	NATIONAL SCIENCE FOUNDATION	Shade, Ashley	MICROBIOLOGY MOLECULAR GENETICS CNS	CAREER: THE CONSEQUENCES OF RARITY FOR SOIL MICROBIOME STABILITY IN STRUCTURE AND FUNCTION

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443	\$179,333	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY MOLECULAR GENETICS CNS	UNCOVERING THE FIRST 5'-PGPG SIGNALING SYSTEM
444	\$27,704	NATIONAL INST OF HEALTH	Atchison, William	NEUROSCIENCE PROGRAM	MICHIGAN STATE UNIVERSITY PREP: INCREASING UNDERREPRESENTED MINORITY REPRESENTATION IN BIOMEDICAL SCIENCES
445	\$66,135	FERMI NATIONAL ACCELERATOR LABORATORY	Berz, Martin	PHYSICS ASTRONOMY	NONLINEAR MUON BEAM DYNAMICS AND SPIN-ENERGY CORRELATIONS FOR PRECISION G-2 MEASUREMENTS
446	\$180,000	US DEPT OF ENERGY	Berz, Martin	PHYSICS ASTRONOMY	ADVANCED TRANSFER MAP METHODS FOR PARTICLE BEAM DYNAMICS: THEORY, APPLICATIONS, AND EDUCATION
447	\$565,914	STONY BROOK UNIVERSITY	Brock, Raymond	PHYSICS ASTRONOMY	US ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER
448	\$157,308	UNIVERSITY OF MICHIGAN	Brock, Raymond	PHYSICS ASTRONOMY	ATLAS GREAT LAKES TIER 2 CENTER
449	\$177,767	STONY BROOK UNIVERSITY	Brock, Raymond	PHYSICS ASTRONOMY	DISCOVERY/MEASUREMENT AT THE ENERGY FRONTIER
450	\$116,534	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Brown, Edward	PHYSICS ASTRONOMY	THE COMPLEX GEOLOGY OF A NEUTRON STAR'S CRUST
451	\$299,822	OFFICE OF NAVAL RESEARCH	Cocker, Tyler	PHYSICS ASTRONOMY	PROBING THE OPTOELECTRONICS OF GRAPHENE NANORIBBONS ON THE ATOMIC SCALE WITH TERAHERTZ SCANNING TUNNELING MICROSCOPY
452	\$559,522	UNIVERSITY OF WISCONSIN MADISON	DeYoung, Tyce	PHYSICS ASTRONOMY	ICECUBE GEN@ PHASE: AN ICECUBE EXTENSION FOR PREVISION NEUTRINO PHYSICS AND ASTROPHYSICS - CONTRUCTION UPGRADE
453	\$48,307	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Donahue, Megan	PHYSICS ASTRONOMY	THE XMM-NEWTON HERITAGE PROGRAM: "WITNESSING THE CULMINATION OF STRUCTURE FORMATION IN THE UNIVERSE"
454	\$177,164	COLUMBIA UNIV	Fisher, Wade	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY WBS 6.08.03.01 TRIGGER FRAMEWORK - MREFC - MSU
455	\$56,022	COLUMBIA UNIV	Fisher, Wade	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY WBS 6.08.03.02 TRIGGER CLUSTERING ALGORITHM - MREFC - MSU
456	\$100,000	RESEARCH CORP FOR SCIENCE ADVANCEMENT	Lin, Huey-Wen	PHYSICS ASTRONOMY	UNVEILING THE THREE-DIMENSIONAL STRUCTURE OF NUCLEONS
457	\$150,000	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH	Maghrebi, Mohammad	PHYSICS ASTRONOMY	DRIVEN-DISSIPATIVE ARCHITECTURES: NEW ROUTES TO QUANTUM PHASES AND TECHNOLOGIES
458	\$205,000	US DEPT OF ENERGY	Mahn, Kendall	PHYSICS ASTRONOMY	IMPROVED NEUTRINO OSCILLATION MEASUREMENTS USING MULTIPLE NEUTRINO ENERGY SPECTRA

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459	\$338,579	NATIONAL INST OF HEALTH	Piermarocchi, Carlo	PHYSICS ASTRONOMY	DATA-DRIVEN MODELS OF HEMATOLOGICAL CELL FATE DECISION AND DIFFERENTIATION
460	\$385,000	NATIONAL SCIENCE FOUNDATION	Pollanen, Johannes	PHYSICS ASTRONOMY	RESONANT MANY-ELECTRON DYNAMICS ON HELIUM
461	\$80,000	NIOWAVE INC	Ruan, Chong-Yu	PHYSICS ASTRONOMY	ULTRAFAST ELECTRON MICROSCOPY MODULE TO UPGRADE EXISTING COMMERCIAL ELECTRON MICROSCOPES
462	\$187,575	US DEPT OF ENERGY	Ruan, Chong-Yu	PHYSICS ASTRONOMY	SYMMETRY-BREAKING MECHANISM AND METASTABLE STATES IN CHARGE-ORDERED SYSTEMS PROBED USING FEMTOSECOND ELECTRON DIFFRACTION AND SPECTROSCOPY
463	\$222,618	COLUMBIA UNIV	Schwienhorst, Reinhard	PHYSICS ASTRONOMY	LHC HIGH LUMINOSITY UPGRADE (HL-LHC) WBS 6.06.01.02 MUON SMDT - MREFC - MSU
464	\$14,576	SPACE TELESCOPE SCIENCE INST	Strader, Jay	PHYSICS ASTRONOMY	COMPLETING THE HST PARALLAX LEGACY: M4
465	\$31,345	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Zepf, Stephen	PHYSICS ASTRONOMY	THE NATURE OF THE TWO GLOBULAR CLUSTER ULXS IN THE GALAXY NGC 4472
466	\$27,239	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Zepf, Stephen	PHYSICS ASTRONOMY	DO LMXB POPULATIONS VARY AMONG OLD EARLY-TYPE GALAXIES?
467	\$37,300	SMITHSONIAN ASTROPHYSICAL OBSERVATORY	Zepf, Stephen	PHYSICS ASTRONOMY	A HIGH SPATIAL RESOLUTION X-RAY SURVEY OF THE HALO OF M87
468	\$37,306	NATIONAL INST OF HEALTH	Busik, Julia	PHYSIOLOGY NATURAL SCIENCE	DYSLIPIDEMIA AND DIABETIC RETINOPATHY
469	\$31,866	NATIONAL INST OF HEALTH	Crandall, Shane	PHYSIOLOGY NATURAL SCIENCE	DYNAMIC PROPERTIES OF CORTICOTHALAMIC CIRCUITS
470	\$500,000	NATIONAL INST OF FOOD & AGRICULTURE	Doseff, Andrea	PHYSIOLOGY NATURAL SCIENCE	IMPACT OF DIETARY FLAVONES FROM WHOLE FOODS ON GUT MICROBIOME, ADIPOSE TISSUE, MACROPHAGES-CROSSTALK IN REDUCING OBESITY-INDUCED INFLAMMATION
471	\$58,250	CROHNS & COLITIS FOUNDATION OF AMERICA	Grubisic, Vladimir	PHYSIOLOGY NATURAL SCIENCE	THE ROLE OF ENTEROGLIAL ADENOSINE A2B RECEPTORS IN FUNCTIONAL RECOVERY AFTER COLITIS
472	\$403,740	NATIONAL INST OF HEALTH	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	ENTERIC GLIA AND VISCERAL PAIN
473	\$69,306	NATIONAL INST OF HEALTH	Hammer, Sandra	PHYSIOLOGY NATURAL SCIENCE	THE ROLE OF THE SIRT1-LXR SIGNALING AXIS IN DIABETES-INDUCED CHOLESTEROL METABOLISM DYSREGULATION
474	\$496,515	NATIONAL INST OF HEALTH	Leininger, Gina	PHYSIOLOGY NATURAL SCIENCE	ROLE OF LATERAL HYPOTHALAMIC NEUROTENSIN NEURONS IN ENERGY BALANCE

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475	\$23,749	HENRY FORD HEALTH SYSTEM	Lydic, Todd	PHYSIOLOGY NATURAL SCIENCE	MICROBIOTA AND ALLERGIC ASTHMA PRECISION PREVENTION (MAAP2)
476	\$46,950	UNIVERSITY OF CALIFORNIA DAVIS	Robison, Alfred	PHYSIOLOGY NATURAL SCIENCE	NEURAL CIRCUITS MEDIATING ANXIOLYTIC EFFECTS OF OXYTOCIN RECEPTOR LIGANDS
477	\$8,059	NATIONAL SCIENCE FOUNDATION	Brudvig, Lars	PLANT BIOLOGY CNS	RESOLVING DRIVERS OF VARIATION IN GRASSLAND COMMUNITY ASSEMBLY AND RESTORATION
478	\$386,624	NORTH CAROLINA STATE UNIV	Buell, CRobin	PLANT BIOLOGY CNS	SWEETGAINS: SWEETPOTATO GENETIC ADVANCES AND INNOVATIVE SEED SYSTEMS
479	\$738,005	NATIONAL SCIENCE FOUNDATION	Childs, Kevin	PLANT BIOLOGY CNS	TRANSCRIPTIONAL AND TRANSLATIONAL REGULATION OF GENE EXPRESSION BY GENE STRUCTURE, CODON USAGE AND TRNAS IN GRASSES
480	\$2,206,532	NATIONAL SCIENCE FOUNDATION	Farre, Eva	PLANT BIOLOGY CNS	MCA-PGR: CYCLING BELOW-GROUND: CIRCADIAN REGULATION IN WILD AND DOMESTICATED POTATO
481	\$169,644	PRINCETON UNIV	Schnell, Danny	PLANT BIOLOGY CNS	TRANSFORMING OUR UNDERSTANDING OF CHLOROPLAST-ASSOCIATED GENES THROUGH COMPREHENSIVE CHARACTERIZATION OF PROTEIN LOCALIZATIONS AND PROTEIN-PROTEIN INTERACTIONS
482	\$23,921	NATIONAL SCIENCE FOUNDATION	Weber, Marjorie	PLANT BIOLOGY CNS	CAREER LIFE BALANCE SUPPLEMENT FOR DIMENSIONS: THE CAUSES AND CONSEQUENCES OF LEAF TRAIT EVOLUTION FOR HIDDEN LIFE ON THE PHYLLOSPHERE: PHYLOGENY, FUNCTION, AND THE GENOME
483	\$391,250	NATIONAL INST OF HEALTH	Brandizzi, Federica	PLANT RESEARCH LABORATORY NAT SCIENCE	UNFOLDED PROTEIN RESPONSE IN THE MODEL SPECIES ARABIDOPSIS THALIANA
484	\$136,446	US DEPT OF ENERGY	Kerfeld, Cheryl	PLANT RESEARCH LABORATORY NAT SCIENCE	ELUCIDATING THE MECHANISM OF OCP-MEDIATED ANTENNA QUENCHING
485	\$444,592	NATIONAL SCIENCE FOUNDATION	Phillips, Elizabeth	PROGRAM IN MATHEMATICS EDUCATION	PROMOTING PRODUCTIVE DISCIPLINARY ENGAGEMENT AND LEARNING WITH OPEN PROBLEMS AND "JUST-IN-TIME" SUPPORTS IN MIDDLE SCHOOL MATHEMATICS
486	\$228,896	NATIONAL INST OF HEALTH	Cui, Yuehua	STATISTICS PROBABILITY	NOVEL METHODS FOR LONGITUDINAL STUDY OF SYNERGISTIC GENE-ENVIRONMENT INTERACTIONS IN COMPLEX DISEASES
COLLEGE OF NURSING					
487	\$14,161	VIRGINIA COMMONWEALTH UNIV	Goldstein, Dawn	NURSING	PRIMARY CARE IMPROVED OUTCOMES WITH NURSES IN EVOLVING AND EXPANDING ROLES (PIONEER)
COLLEGE OF OSTEOPATHIC MEDICINE					
488	\$5,965	GLOBAL KINETICS CORP	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	UTILIZATION OF TARGET RANGES TO TREAT PATIENTS WITH PARKINSON'S DISEASE BY OBJECTIVE MEASUREMENT USING THE PERSONAL KINETIGRAPH® (PKG®) COMPARED TO STANDARD OF CARE ASSESSMENT (TARGET-PD)- A RANDOMIZE

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489	\$5,835	REVANCE THERAPEUTICS INC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL GROUP, MULTI-CENTER TRIAL TO EVALUATE THE EFFICACY AND SAFETY OF A SINGLE TREATMENT OF DAXIBOTULINUMTOXINA FOR INJECTION IN ADULTS WIT
490	\$18,150	IMPAX LABORATORIES LLC	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A RANDOMIZED CONTROLLED STUDY TO COMPARE THE SAFETY AND EFFICACY OF IPX203 WITH IMMEDIATE -RELEASE CARBIDOPA-LEVODOPA IN PARKINSON'S DISEASE PATIENTS WITH MOTOR FLUCTUATIONS
491	\$5,354	PHARMA TWO B LTD	Goudreau, John	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, TWELVE-WEEK, MULTI-CENTER, MULTINATIONAL, RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PARALLEL GROUP STUDY TO DETERMINE THE EFFICACY, SAFETY AND TOLERABILITY OF P2B001 ONCE DAILY COMPARED TO IT
492	\$8,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Khalil, Suad	NEUROLOGY AND OPHTHALMOLOGY COM	NEUROLOGY TELEMEDICINE PROJECT NEUTEL-MS
493	\$168,974	NATIONAL INST OF NEUROLOGICAL DISORDERS & STROKES	Kvalsund, Michelle	NEUROLOGY AND OPHTHALMOLOGY COM	COMMUNITY HEALTH AND NEUROPATHY: NUTRITIONAL AND ENVIRONMENTAL LINKS IN ZAMBIA (CHANNELZ)
494	\$51,346	EISAI INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	EISAI BAN2401-G000-201 OPEN LABEL EXTENSION
495	\$13,297	ALEXION PHARMACEUTICALS INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, MULTICENTER STUDY TO EVALUATE THE SAFETY AND EFFICACY OF RAVULIZUMAB IN COMPLEMENT-INHIBITOR-NAÏVE ADULT PATIENTS WITH GENERALIZED MYASTHENIA
496	\$5,135	MOMENTA PHARMACEUTICALS, INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 2, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO EVALUATE THE SAFETY, TOLERABILITY, EFFICACY, PHARMACOKINETICS AND PHARMACODYNAMICS OF M281 ADMINISTERED TO ADULTS WITH GE
497	\$5,425	RA PHARMACEUTICALS INC	Sachdev, Amit	NEUROLOGY AND OPHTHALMOLOGY COM	A PHASE 3, MULTICENTER, OPEN-LABEL EXTENSION STUDY OF ZILUCOPLAN IN SUBJECTS WITH GENERALIZED MYASTHENIA GRAVIS
498	\$5,815	NOVARTIS PHARMACEUTICALS CORP	Ward, Jayne	NEUROLOGY AND OPHTHALMOLOGY COM	A RANDOMIZED, DOUBLE-BLIND, DOUBLE-DUMMY, PARALLEL-GROUP STUDY COMPARING THE EFFICACY AND SAFETY OF OFATUMUMAB VERSUS TERIFLUNOMIDE IN PATIENTS WITH RELAPSING MULTIPLE SCLEROSIS
499	\$1,646,933	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	THE INTRANSIGENCE OF MALARIA IN MALAWI: UNDERSTANDING HIDDEN RESERVOIRS, SUCCESSFUL VECTORS AND PREVENTION FAILURES
500	\$471,173	NATIONAL INST OF ALLERGY & INFECTIOUS DISEASES	Taylor, Terrie	OSTEOPATHIC MEDICAL SPECIALTIES COM	THE INTRANSIGENCE OF MALARIA IN MALAWI: UNDERSTANDING HIDDEN RESERVOIRS, SUCCESSFUL VECTORS AND PREVENTION FAILURES
501	\$7,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Greenberg, Joel	PEDIATRICS	PEDIATRIC EPILEPSY PROJECT

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502	\$45,617	SPECTRUM HEALTH SYSTEM	Dexheimer, Thomas	PHARMACOLOGY TOXICOLOGY	PHARMACOLOGICAL PROFILING OF PATIENT-DERIVED NEUROBLASTOMA CELLS
503	\$20,513	SCRIPPS RESEARCH INST	Krieger-Burke, Teresa	PHARMACOLOGY TOXICOLOGY	ECHOCARDIOGRAPHY ASSESSMENT OF 3 BPN COMPOUNDS ADMINISTERED INTRAVENOUSLY TO MALE SPRAGUE-DAWLEY RATS 19IVF105
504	\$350,290	NATIONAL INST OF HEALTH	Liby, Karen	PHARMACOLOGY TOXICOLOGY	NRF2, IMMUNE CELLS AND LUNG CANCER
505	\$26,844	AMER HEART ASSOC	Neubig, Richard	PHARMACOLOGY TOXICOLOGY	IDENTIFYING THE RHO/MRTF-A/SRF SIGNALING AXIS AS A NEW THERAPEUTIC TARGET FOR PULMONARY ARTERIAL HYPERTENSION
506	\$344,119	NATIONAL INST OF HEALTH	Tyckocki, Nathan	PHARMACOLOGY TOXICOLOGY	TRPV1 MEDIATES PROGRESSIVE STRESS-INDUCED BLADDER DYSFUNCTION
507	\$425,185	NATIONAL INST OF HEALTH	Watts, Stephanie	PHARMACOLOGY TOXICOLOGY	5-HT7 RECEPTOR AND BLOOD PRESSURE REGULATION
508	\$621,646	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	CULTURE-SPECIFIC NEURODEVELOPMENTAL ASSESSMENT OF HIV-AFFECTED CHILDREN
509	\$41,022	NATIONAL INST OF BIOMEDICAL RESEARCH	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	TRAINING CAREGIVERS TO ENHANCE EARLY CHILD NEURODEVELOPMENT IN THE PREVENTION OF KONZO DISEASE FROM TOXIC CASSAVA IN THE DEMOCRATIC REPUBLIC OF CONGO
510	\$16,566	UNIVERSITY OF ARIZONA	Sikorskii, Alla	PSYCHIATRY OSTEOPATHIC MEDICINE	IMPROVING INFORMAL CAREGIVERS' AND CANCER SURVIVORS' PSYCHOLOGICAL DISTRESS, SYMPTOM MANAGEMENT AND HEALTH CARE USE
511	\$31,975	GRAND VALLEY STATE UNIV	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
512	\$28,260	NEW YORK UNIV SCHOOL OF MEDICINE	McMahon, Jill	RADIOLOGY OSTEOPATHIC MEDICINE	REVERSING DIABETIC PERIPHERAL NEUROPATHY THROUGH EXERCISE
513	\$107,579	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					
514	\$14,139	WESTERN MICHIGAN UNIV	Isaac, Carolyn	ANTHROPOLOGY SOCIAL SCIENCE	INVESTIGATIONS ON THE CELLULAR AND MORPHOLOGIC CHARACTERISTICS OF CRANIAL VAULT FRACTURE: RESEARCH AND DEVELOPMENT OF A TIME SINCE FRACTURE PROTOCOL AND DATABASE
515	\$63,000	AMER COUNCIL OF LEARNED SOCIETIES	Leichtman, Mara	ANTHROPOLOGY SOCIAL SCIENCE	HUMANITARIAN ISLAM: TRANSNATIONAL RELIGION AND KUWAITI DEVELOPMENT PROJECTS IN AFRICA

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516	\$60,000	NATIONAL ENDOWMENT FOR THE HUMANITIES	Louie, Andrea	ANTHROPOLOGY SOCIAL SCIENCE	CHINESE AMERICAN MOTHERING ACROSS GENERATIONS
517	\$15,907	NATIONAL SCIENCE FOUNDATION	Cavanagh, Caitlin	CRIMINAL JUSTICE	COLLABORATIVE PROPOSAL: A RAPID RESPONSE TO JUSTICE-INVOLVED AND COMMUNITY ADOLESCENTS' AND PARENTS' EXPERIENCES DURING THE COVID19 OUTBREAK
518	\$27,177	HAMILTON COMMUNITY HEALTH NETWORK	Krupa, Julie	CRIMINAL JUSTICE	NORTH FLINT REVITALIZATION INITIATIVE
519	\$51,006	YALE UNIV	Maxwell, Christopher	CRIMINAL JUSTICE	EVALUATING THE IMPACT OF THE DOMESTIC VIOLENCE HOMICIDE PREVENTION DEMONSTRATION PROGRAM
520	\$37,452	YALE UNIV	Maxwell, Christopher	CRIMINAL JUSTICE	ADVANCING GUN POLICY: LINKING MULTI-SOURCE DATA TO DEVELOP MICRO-LONGITUDINAL TRAJECTORIES OF DOMESTIC VIOLENCE OFFENDERS' GUN USE AND IMPACT ON VICTIMS
521	\$374,579	UNIVERSITY OF MICHIGAN	Melde, Christopher	CRIMINAL JUSTICE	NATIONAL STOP SCHOOL VIOLENCE TRAINING AND TECHNICAL ASSISTANCE CENTER
522	\$135,541	SAGINAW COMMUNITY FOUNDATION	Wolfe, Scott	CRIMINAL JUSTICE	SAGINAW VIOLENT GANG AND GUN CRIME REDUCTION PROGRAM
523	\$266,941	CITY OF SAGINAW	Wolfe, Scott	CRIMINAL JUSTICE	SAGINAW INITIATIVE TO REDUCE VIOLENCE (SIRV)
524	\$125,019	NATIONAL SCIENCE FOUNDATION	Barnwal, Prabhat	ECONOMICS	COLLABORATIVE RESEARCH: INFORMAL RISK-SHARING AND PRIVATE INITIATIVE TO MITIGATE LOCAL ENVIRONMENTAL RISKS
525	\$20,000	AMER COUNCILS FOR INTL EDUCATION	Chen, Jiquan	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	DEVELOPMENT OF KEY CURRICULUMS FOR ECOLOGY AND ENVIRONMENTAL SCIENCES IN KAZAKHSTAN ACADEMIC INSTITUTIONS
526	\$173,021	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Chen, Jiquan	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	INTERDEPENDENT DYNAMICS OF FOOD, ENERGY AND WATER IN KAZAKHSTAN AND MONGOLIA: CONNECTING LULCC TO THE TRANSITIONAL SOCIOECOLOGICAL SYSTEMS
527	\$48,149	SOUTH DAKOTA STATE UNIV	Henebry, Geoffrey	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	HOW ENVIRONMENTAL CHANGE IN CENTRAL ASIAN HIGHLANDS IMPACTS HIGH ELEVATION COMMUNITIES
528	\$134,941	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...
529	\$375,000	NATIONAL INST OF FOOD & AGRICULTURE	Mack, Elizabeth	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	CONNECTING MARKETS AND ENHANCING ECONOMIC OPPORTUNITY THROUGH RURAL BROADBAND

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	Amount	Sponsor	Director	Unit	Purpose
530	\$506,072	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Qi, Jiaguo	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	QUANTIFYING HUMAN AND CLIMATE IMPACTS ON WETLAND ECOSYSTEMS IN THE LOWER MEKONG RIVER BASIN
531	\$29,596	UNIVERSITY OF MARYLAND	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	NASA LAND COVER LAND USE CHANGE (LCLUC) PROGRAM SCIENCE SUPPORT
532	\$14,407	UNIVERSITY OF IDAHO	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	USING THE NASA POLAR ORBITING FIRE PRODUCT RECORD TO ENHANCE AND EXPAND THE GLOBAL WILDFIRE INFORMATION SYSTEM (GWIS)
533	\$190,044	INTL FERTILIZER DEVELOPMENT CENTER	Snapp, Sieglinde	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	SITE-SPECIFIC SOIL DATA MANAGEMENT FOR IMPROVEMENT OF SOIL PRODUCTIVITY AND FARM-LEVEL PROFITABILITY FOR MARGINAL ARABLE LANDS OF ETHIOPIA AND NIGER
534	\$165,222	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
535	\$101,817	MICHIGAN DEPT OF NATURAL RESOURCES	Tobe, Erica	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	MDNR URBAN OUTREACH COORDINATOR
536	\$319,597	MICHIGAN HEALTH ENDOWMENT FUND	Wittenborn, Andrea	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	IMPLEMENTING AND SUSTAINING INTEGRATED CARE FOR PERINATAL DEPRESSION
537	\$23,475	UNIVERSITY OF MICHIGAN	Grossmann, Matthew	INST FOR PUBLIC POLICY SOCIAL RESEARCH	MATERNAL INFANT PROGRAM EVALUATION
538	\$794,311	MICHIGAN DEPT OF COMMUNITY HEALTH	Grossmann, Matthew	INST FOR PUBLIC POLICY SOCIAL RESEARCH	BEHAVIORAL RISK FACTOR SURVEY 2019-2020
539	\$17,000	CENTER FOR A NEW AMERICAN SECURITY	Frantz, Erica	POLITICAL SCIENCE	TECHNOLOGY AND THE PERSONALIZATION OF POLITICS
540	\$17,792	PENNSYLVANIA STATE UNIV	Frantz, Erica	POLITICAL SCIENCE	PERSONALIST PARTIES: HOW PARTIES UNDERMINE DEMOCRACY AND INDIVIDUAL LIBERTIES
541	\$330,300	AGENCY FOR HEALTHCARE RESEARCH & QUALITY	Becker, Mark	PSYCHOLOGY SOCIAL SCIENCE	OPTIMIZING OTC LABELS FOR OLDER ADULTS: EMPIRICAL EVALUATION OF LABELS DESIGNED TO PROVIDE OLDER USERS THE INFORMATION THEY NEED TO MINIMIZE ADVERSE DRUG EVENTS

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542	\$590,557	NATIONAL INST OF HEALTH	Burt, Alex	PSYCHOLOGY SOCIAL SCIENCE	FROM NEIGHBORHOOD DISADVANTAGE TO ANTISOCIAL BEHAVIOR: NEUROBIOLOGICAL PATHWAYS
543	\$70,119	RTI INTL	Campbell, Rebecca	PSYCHOLOGY SOCIAL SCIENCE	FY19 NATIONAL SEXUAL ASSAULT KIT INITIATIVE TRAINING AND TECHNICAL ASSISTANCE (TTA)
544	\$25,000	MICHIGAN STATE POLICE	Campbell, Rebecca	PSYCHOLOGY SOCIAL SCIENCE	MICHIGAN STATE POLICE (MSP) SEXUAL ASSAULT KIT INITIATIVE (SAKI) PROJECT
545	\$143,865	NATIONAL SCIENCE FOUNDATION	Cesario, Joseph	PSYCHOLOGY SOCIAL SCIENCE	UNDERSTANDING RACE BIAS IN THE DECISION TO SHOOT WITH AN INTEGRATED MODEL OF DECISION MAKING.
546	\$31,201	TWO SIX LABS	Donnellan, Brent	PSYCHOLOGY SOCIAL SCIENCE	SYSTEMATIZING CONFIDENCE IN OPEN RESEARCH AND EVIDENCE (SCORE) PROGRAM
547	\$39,279	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Foster-Fishman, Pennie	PSYCHOLOGY SOCIAL SCIENCE	STATE INNOVATION MODEL EVALUATION CHIR POPULATION HEALTH
548	\$342,045	NATIONAL INST OF HEALTH	Johnson, Alexander	PSYCHOLOGY SOCIAL SCIENCE	NEUROPEPTIDE MODULATION OF PREDICTIVE REGULATION VIS CHEMOGENETIC AND OPTOGENETIC CONTROL
549	\$728,435	NATIONAL INST OF HEALTH	Klump, Kelly	PSYCHOLOGY SOCIAL SCIENCE	A TWIN STUDY OF ANDROGEN EFFECTS ON BINGE EATING RISK DURING PUBERTY IN MALES
550	\$70,393	NATIONAL INST OF HEALTH	Lonstein, Joseph	PSYCHOLOGY SOCIAL SCIENCE	PREPARTUM AND POSTPARTUM MODIFICATION OF CENTRAL SEROTONIN
551	\$23,000	MPACT GLOBAL ACTION	Miller, Robin	PSYCHOLOGY SOCIAL SCIENCE	PROJECT ACT EVALUATION: HOW HUMAN RIGHTS ADVOCACY AND CAPACITY BUILDING WORKS
552	\$563,157	NATIONAL INST OF HEALTH	Moser, Jason	PSYCHOLOGY SOCIAL SCIENCE	COGNITIVE CONTROL IN ANXIETY: THE ROLE OF OVARIAN HORMONES
553	\$64,926	NATIONAL INST OF HEALTH	Shewark, Elizabeth	PSYCHOLOGY SOCIAL SCIENCE	NEIGHBORHOOD, GENOTYPE, AND DEVELOPMENT
554	\$34,986	WASHINGTON STATE COALITION AGAINST DOMESTIC VIOLENCE	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	DOMESTIC VIOLENCE HOUSING FIRST DEMONSTRATION EVALUATION
555	\$80,527	NORTHROP GRUMMAN CORP	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	QUALITATIVE EVALUATION OF THE US ARMY TRANSITIONAL COMPENSATION PROGRAM
556	\$15,450	PEDIGREE FOUNDATION	Reese, Laura	SCHOOL OF PLANNING DES CONSTRUCTION CSS	ASSESSING THE IMPORTANCE OF MATCHING, FOSTER, AND TRANSFER PROGRAMS TO POSITIVE OUTCOMES FOR SHELTER DOGS
557	\$25,000	AREA AGENCY ON AGING 1-B	Guevara Warren, Alicia	SOCIAL WORK	KINSHIP SUPPORT – WASHTENAW COUNTY
558	\$10,217	UNIVERSITY OF CHICAGO	Park, Keunhye	SOCIAL WORK	THE CALIFORNIA YOUTH TRANSITIONS TO ADULTHOOD STUDY (CALYOUTH)

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559	\$183,343	WAYNE STATE UNIV	Smith-Darden, Joanne	SOCIAL WORK	YOUTH EMPOWERMENT SOLUTIONS FOR HEALTHY RELATIONSHIPS
560	\$33,459	UNIVERSITY OF TEXAS AT AUSTIN	Liu, Hui	SOCIOLOGY SOCIAL SCIENCE	RACE/ETHNIC DIFFERENCES IN LIFE COURSE EXPOSURE TO DEATH: CONSEQUENCES FOR HEALTH
561	\$267,723	NATIONAL INST OF HEALTH	Liu, Hui	SOCIOLOGY SOCIAL SCIENCE	MARRIAGE, COGNITIVE TRAJECTORIES AND ADRD RISK IN LATE LIFE
ASC PROVOST FOR UNDERGRADUATE EDUCATION					
562	\$25,000	ARIZONA STATE UNIV	Renn, Kristen	ASC PROVOST FOR UNDERGRADUATE EDUCATION	UIA COVID-19 EMERGENCY STUDENT AID
563	\$10,000	ARIZONA STATE UNIV	Renn, Kristen	ASC PROVOST FOR UNDERGRADUATE EDUCATION	UIA DOCTORAL RESEARCH FELLOWS (CARNEGIE) - MOU #4
564	\$39,962	GEORGIA STATE UNIV	Renn, Kristen	ASC PROVOST FOR UNDERGRADUATE EDUCATION	MAAPS: MONITORING ADVISING ANALYTICS TO PROMOTE STUDENT SUCCESS
565	\$196,000	MICHIGAN DEPT OF EDUCATION	Garcia, Luis	MIGRANT STUDENT SERVICES	MSU ID&R CENTER
COLLEGE OF VETERINARY MEDICINE					
566	\$15,000	MERCK SHARP & DOHME	Abuelo Sebio, Angel	LARGE ANIMAL CLINICAL SCIENCES	2020 MICHIGAN STATE UNIVERSITY FOOD SYSTEMS FELLOWSHIP PROGRAM
567	\$70,000	BRAIN & BEHAVIOR RESEARCH FOUNDATION	Duque-Wilckens, Natalia	LARGE ANIMAL CLINICAL SCIENCES	MENINGIAL MAST CELLS AS DRIVERS OF STRESS-INDUCED NEUROPSYCHIATRIC DYSFUNCTION
568	\$243,043	NATIONAL INST OF HEALTH	Ewart, Susan	LARGE ANIMAL CLINICAL SCIENCES	INVESTIGATING DNA METHYLATION CHANGES DURING PREGNANCY AS A MECHANISM FOR ALTERING DISEASE RISK IN PAROUS WOMEN
569	\$38,315	UNIVERSITY OF MEMPHIS	Ewart, Susan	LARGE ANIMAL CLINICAL SCIENCES	DOES EPIGENETIC METHYLATION EXPLAIN THE GENDER-SWITCH IN ADOLESCENT ASTHMA?
570	\$454,657	NATIONAL INST OF HEALTH	Moeser, Adam	LARGE ANIMAL CLINICAL SCIENCES	NEURO-IMMUNE MECHANISMS IN EARLY LIFE STRESS-INDUCED GASTROINTESTINAL DISEASE
571	\$41,658	US TROTTING ASSOC	Valberg, Stephanie	LARGE ANIMAL CLINICAL SCIENCES	STATE-OF-THE-ART ANALYSIS OF MUSCLE FROM STANDARDBREDS WITH RECURRENT EXERTIONAL RHABDOMYOLYSIS: DIFFERENCES FROM THOROUGHBREDS AND IMPLICATIONS FOR TREATMENT
572	\$56,942	GRAYSON JOCKEY CLUB RESEARCH FOUNDATION INC	Valberg, Stephanie	LARGE ANIMAL CLINICAL SCIENCES	NOVEL TREATMENT FOR RECURRENT EXERTIONAL RHABDOMYOLYSIS
573	\$10,800	ASSOC OF ZOOS & AQUARIUMS	Agnew, Dalen	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	INVESTIGATION OF POSSIBLE GENETIC AND ENVIRONMENTAL FACTORS LEADING TO UTERINE DISEASE IN AFRICAN PAINTED DOGS.

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574	\$415,358	NATIONAL INST OF HEALTH	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	NOVEL DETERMINANTS OF FIBRINOGEN PRO-REPAIR ACTIVITY IN ACETAMINOPHEN-INDUCED LIVER TOXICITY
575	\$70,981	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	FIBRIN(OGEN) CONTROL OF METABOLIC INFLAMMATION AND OBESITY
576	\$387,500	NATIONAL INST OF HEALTH	Meek, Katheryn	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	DEFINING THE MECHANISTIC BASIS OF ATM'S IMPACT ON VDJ RECOMBINATION
577	\$234,750	NATIONAL INST OF HEALTH	Petroff, Margaret	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	ENDOCRINE REGULATION OF MATERNAL IMMUNITY IN PREGNANCY
578	\$592,352	NATIONAL INST OF HEALTH	Komaromy, Andras	SMALL ANIMAL CLINICAL SCIENCES	THERAPY DEVELOPMENT FOR OPEN-ANGLE GLAUCOMAS
579	\$1,832,126	NATIONAL INST OF HEALTH	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	TRANSLATIONAL GENE THERAPY FOR CNGB1 RETINITIS PIGMENTOSA
580	\$88,396	NATIONAL INST OF HEALTH	Ewart, Susan	VETERINARY MEDICINE DEAN	INCREASING DIVERSITY IN EXPERIENTIAL RESEARCH EDUCATION AT MICHIGAN STATE UNIVERSITY
581	\$12,501	STATE OF MICHIGAN	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	DEVELOPING MICHIGAN'S PIPELINE TO VETERINARY MEDICAL EDUCATION
582	\$102,730	NATIONAL INST OF HEALTH	Yuzbasiyan-Gurkan, Vilma	VETERINARY MEDICINE DEAN	SHORT-TERM BIOMEDICAL RESEARCH TRAINING PROGRAM FOR VETERINARY STUDENTS
583	\$35,000	NATIONAL INST OF HEALTH	Yuzbasiyan-Gurkan, Vilma	VETERINARY MEDICINE DEAN	NIH-MERIAL VETERINARY SCHOLARS SYMPOSIUM: VETERINARIANS IN BIOMEDICAL RESEARCH: BUILDING CAPACITY
584	\$15,000	BOEHRINGER INGELHEIM INC	Yuzbasiyan-Gurkan, Vilma	VETERINARY MEDICINE DEAN	2019 BOEHRINGER INGELHEIM VETERINARY SCHOLARS PROGRAM (BIVSP)
FACILITY FOR RARE ISOTOPE BEAMS					
585	\$13,000,000	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS TRANSITION TO OPERATION AND OPERATION AS SCIENTIFIC USER FACILITY
586	\$22,627,142	US DEPT OF ENERGY	Glasmacher, Thomas	FACILITY FOR RARE ISOTOPE BEAMS	FACILITY FOR RARE ISOTOPE BEAMS (FRIB)
587	\$128,305	FERMI NATIONAL ACCELERATOR LABORATORY	Lund, Steven	FACILITY FOR RARE ISOTOPE BEAMS	US PARTICLE ACCELERATOR SCHOOL (USPAS) DIRECTOR
588	\$60,151	FERMI NATIONAL ACCELERATOR LABORATORY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	FERMILAB ACCELERATOR PHD PROGRAM OF CRISPIN CONTRERAS

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589	\$67,516	NATIONAL SCIENCE FOUNDATION	Bogner, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	AB-INITIO NUCLEAR THEORY: FROM NUCLEI TO NEUTRON STARS
590	\$1,825,000	US DEPT OF ENERGY	Gade, Alexandra	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEAR STRUCTURE STUDIES AT THE LIMITS OF STABILITY
591	\$50,000	LOS ALAMOS NATL LABORATORY	Lee, Dean	NAT'L SUPERCONDUCTING CYCLOTRON LAB	LARGE SCALE SIMULATIONS OF NUCLEAR REACTIONS
592	\$275,000	US DEPT OF ENERGY	Liddick, Sean	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NEUTRON CAPTURE CROSS SECTION MEASUREMENTS ON SHORT-LIVED ISOTOPES
593	\$275,000	US DEPT OF ENERGY	Lynch, William	NAT'L SUPERCONDUCTING CYCLOTRON LAB	ASYMMETRIC NUCLEAR MATTER UNDER EXTREME CONDITIONS
594	\$75,226	ARGONNE NATIONAL LABORATORY	Maciel Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NATIONAL FRIB THEORY FELLOW AT ARGONNE NATIONAL LABORATORY
595	\$200,000	US DEPT OF ENERGY	Nazarewicz, Witold	NAT'L SUPERCONDUCTING CYCLOTRON LAB	THEORETICAL NUCLEAR STRUCTURE
596	\$43,000	BROOKHAVEN NATIONAL LABORATORY	Pratt, Scott	NAT'L SUPERCONDUCTING CYCLOTRON LAB	BEAM ENERGY SCAN THEORY COLLABORATION (BEST COLLABORATION)
597	\$16,000,000	NATIONAL SCIENCE FOUNDATION	Sherrill, Bradley	NAT'L SUPERCONDUCTING CYCLOTRON LAB	OPERATION OF THE NSCL AS A NATIONAL USER FACILITY & RESEARCH PROGRAM
598	\$42,369	JEFFERSON SCIENCE ASSOCIATES LLC	Spyrou, Artemisia	NAT'L SUPERCONDUCTING CYCLOTRON LAB	STUDENT TRAINING AND ENGAGEMENT PROGRAM IN UNDERGRADUATE PHYSICS
599	\$8,260	NATIONAL SCIENCE FOUNDATION	Zelevinsky, Vladimir	NAT'L SUPERCONDUCTING CYCLOTRON LAB	NUCLEI AND MESOSCOPIC PHYSICS 20 (NMP20)
ASC PROVOST FOR ACADEMIC SERVICES					
600	\$14,918,294	US DEPT OF EDUCATION	Stanley, Samuel	FINANCIAL AID	CARES ACT FUNDING REQUEST FOR MICHIGAN STATE UNIVERSITY (COVID-19)
ASC PROV FOR UNIV OUTREACH ENGAGEMENT					
601	\$18,239	UNIVERSITY OF MISSOURI	Martinez, Ruben	JULIAN SAMORA RESEARCH INSTITUTE	LATINO AGRICULTURAL ENTREPRENEURSHIP STRATEGIES, NETWORKS OF SUPPORT AND SUSTAINABLE RURAL DEVELOPMENT

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602	\$23,522	UNIVERSITY OF COLORADO DENVER	Barnes Najor, Jessica	OUTREACH AND ENGAGEMENT PARTNERSHIPS	TRIBAL EARLY CHILDHOOD RESEARCH CENTER 2
MSU AGBIORESEARCH					
603	\$54,540	MICHIGAN DEPT OF NATURAL RESOURCES	Lupi, Frank	AG FOOD RESOURCE ECON MABR	SOCIAL AND ECONOMIC BENEFITS AND COSTS OF ELK IN MICHIGAN
604	\$321,625	NATIONAL INST OF HEALTH	Knott, Jason	ANIMAL SCIENCE DEPARTMENT MABR	MECHANISMS OF TROPHOBLAST LINEAGE FORMATION: IMPACT ON POSTIMPLANTATION PLACENTAL DEVELOPMENT
605	\$78,503	GREAT LAKES FISHERY COMMISSION	Murphy, Cheryl	FISHERIES AND WILDLIFE MABR	ASSESSMENT OF SEA LAMPREY PARASITISM SUB-LETHAL IMPACTS ON SISCOWET AND LEAN LAKE TROUT POPULATIONS
606	\$358,959	MICHIGAN DEPT OF TRANSPORTATION	Roloff, Gary	FISHERIES AND WILDLIFE MABR	EASTERN MASSASAUGA (SISTURUS CATENATUS) ROAD ECOLOGY AND POPULATION DYNAMICS IN MICHIGAN
607	\$500,000	US AGENCY FOR INTL DEVELOPMENT	Douches, David	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE BIOTECHNOLOGY PARTNERSHIP
608	\$2,660,333	US AGENCY FOR INTL DEVELOPMENT	Pittendrigh, Barry	MSU AGBIORESEARCH DIR OFC	FEED THE FUTURE INNOVATION LAB FOR LEGUME SYSTEMS RESEARCH (ILLSR)
609	\$13,400	VARIOUS INDUSTRIES	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	BURNS PSM TESTING
610	\$40,000	IOWA STATE UNIV	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING AN INTEGRATED MANAGEMENT AND COMMUNICATION PLAN FOR SOYBEAN SUDDEN DEATH SYNDROME
611	\$10,000	MICHIGAN BEAN COMMISSION	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATION OF SUSTAINABLE MANAGEMENT PRACTICES ESSENTIAL FOR THE ADVANCEMENT OF MICHIGAN DRY BEAN PRODUCTION
612	\$63,965	AGRICULTURAL RESEARCH SERVICE	Hammerschmidt, Raymond	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
613	\$10,000	MICHIGAN BEAN COMMISSION	Kelly, James	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATION OF SUSTAINABLE MANAGEMENT PRACTICES ESSENTIAL FOR THE ADVANCEMENT OF MICHIGAN DRY BEAN PRODUCTION
614	\$399,800	MICHIGAN DEPT OF NATURAL RESOURCES	Sakalidis, Monique	PLANT SOIL AND MICROBIAL SCIENCES	MINIMIZING COLLATERAL DAMAGE ASSOCIATED WITH OAKWILT MANAGEMENT

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615	\$10,000	MICHIGAN BEAN COMMISSION	Sprague, Christy	PLANT SOIL AND MICROBIAL SCIENCES	INTEGRATION OF SUSTAINABLE MANAGEMENT PRACTICES ESSENTIAL FOR THE ADVANCEMENT OF MICHIGAN DRY BEAN PRODUCTION
MICHIGAN STATE UNIVERSITY EXTENSION					
616	\$29,190	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Baas, Dean	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATION OF CEREAL RYE VARIETIES FOR THE MICHIGAN CRAFT DISTILLING INDUSTRY
617	\$9,604	MICHIGAN CROP IMPROVEMENT ASSOC	Dedecker, James	EXTENSION AGRICULTURE AND AGRIBUSINESS	INVESTIGATING OAT AND BARLEY VARIETY PERFORMANCE ACROSS MICHIGAN
618	\$39,583	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Schwehofer, Jeannine	EXTENSION AGRICULTURE AND AGRIBUSINESS	PROCESSED MEATS TRAINING FOR MEAT PROCESSORS, RESTAURATEURS AND REGULATORS
619	\$10,700	MICHIGAN TREE FRUIT COMMISSION	Shane, William	EXTENSION AGRICULTURE AND AGRIBUSINESS	MONITORING BROWN ROT RESISTANCE TO FRAC 3 FUNGICIDES IN MICHIGAN PEACH ORCHARDS
620	\$20,000	MICHIGAN SOYBEAN PROMOTION COMMITTEE	Staton, Michael	EXTENSION AGRICULTURE AND AGRIBUSINESS	2020 MSU EXTENSION ON-FARM RESEARCH, EDUCATION AND COMMUNICATION PROJECTS
621	\$38,458	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	2019 FALL TSC PAPER CLOVER CAMPAIGN
622	\$7,506	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	OCT - DEC 2019 GIFTS RECEIVED RG100163
623	\$75,732	BARRY COUNTY UNITED WAY	Kilpatrick, Glenda	EXTENSION CHILDREN AND YOUTH	BARRY COUNTY MSU EXTENSION 4-H PROGRAM
624	\$8,000	M & M MARS INC	Sandborn, Dixie	EXTENSION CHILDREN AND YOUTH	CHOCOLATE CULTURE AND CREATIVITY
625	\$38,828	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	INVESTIGATING WINTER HARDINESS TO ADVANCE WINTER MALTING BARLEY AS A CLIMATE ADAPTATION STRATEGY IN MICHIGAN
626	\$7,388	NORTH DAKOTA STATE UNIV	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	IDENTIFYING SPRING MALTING BARLEY VARIETIES ADAPTED TO THE EASTERN US

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627	\$215,628	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Latimore, Jo	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	EDUCATING BOATERS AND OTHER GROUPS TO PREVENT THE INTRODUCTION AND SPREAD OF AIS
628	\$83,579	AMERICANA FOUNDATION	Mathis, Michael	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	AMERICANA - TOLLGATE MSU - 2020
629	\$23,051	UNIVERSITY OF MINNESOTA TWIN CITIES	Nelson, Elliot	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	GREAT LAKES SEA GRANT AQUACULTURE COLLABORATIVE
630	\$22,000	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	Schroeder, Brandon	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	USING A TEACHER MENTOR MODEL TO EXPAND THE IMPACT OF THE CENTER FOR GREAT LAKE'S LITERACY'S COMMUNITY OF PRACTICE
631	\$31,920	MICHIGAN CRAFT BEVERAGE COUNCIL	Sirrine, J	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	INVESTIGATING THE TERROIR-INFLUENCED QUALITY ATTRIBUTES OF HOPS (HUMULUS LUPULUS)
632	\$683,445	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MSG EXTENSION (OMNIBUS)
633	\$66,960	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	OLDER ADULT OPIOID PREVENTION SUPPLEMENTAL
634	\$185,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	OLDER ADULT OPIOID PREVENTION
635	\$15,624	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	CAREGIVER RESOURCE COLLABORATIVE
636	\$177,751	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Contreras, Dawn	EXTENSION HEALTH AND NUTRITION	PHYSICIAN PEER EDUCATION ON IMMUNIZATION
637	\$1,734,593	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	East, Deanna	EXTENSION HEALTH AND NUTRITION	SUPPLEMENTAL NUTRITION ASSISTANCE PROGRAM EDUCATION

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638	\$10,127	CLEMSON UNIV	Galdamez, Imelda	EXTENSION HEALTH AND NUTRITION	EXPANDED FOOD & NUTRITION EDUCATION WEBNEERS
639	\$46,455	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Lynch, Kara	EXTENSION HEALTH AND NUTRITION	BUYER BEWARE
640	\$49,124	UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN	Stewart, Stephen	FISHERIES AND WILDLIFE MSUE	CENTER FOR GREAT LAKES LITERACY (CGLL)
641	\$41,181	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
642	\$8,729	GRAND TRAVERSE BAND OF OTTAWA & CHIPPEWA INDIANS	Berkey, Jennifer	MSUE DIRECTORS OFFICE	GRAND TRAVERSE & LEELANAU AMERICORPS 4-H GTB PROJECT
643	\$9,996	PURDUE UNIV	Skidmore, Mark	MSUE DIRECTORS OFFICE	ADVANCING AGROSECURITY AND COMMUNITY RESILIENCE THROUGH COLLABORATION, CAPACITY-BUILDING AND EXTENSION PROGRAM INNOVATION
644	\$90,000	MICHIGAN DEPT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	10 - NATURAL COMMUNITY SURVEYS AND MIFI INVENTORY OF PRD LANDS
645	\$30,000	MICHIGAN DEPT OF NATURAL RESOURCES	Cohen, Joshua	NATURAL FEATURES INVENTORY MSUE	8 - NATURAL COMMUNITY SURVEYS OF FRD LANDS 2020
646	\$35,517	MICHIGAN DEPT OF NATURAL RESOURCES	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	7 - KOTAR HABITAT CLASSIFICATION TRAINING
647	\$39,467	MICHIGAN DEPT OF NATURAL RESOURCES	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	13 - FRD ISOTRIA VERTICILLATE STATUS ASSESSMENT IN MICHIGAN - 2020
648	\$99,976	MICHIGAN DEPT OF NATURAL RESOURCES	Higman, Phyllis	NATURAL FEATURES INVENTORY MSUE	14 - FRD-GNA-HMNF BOTANY SURVEYS 2020
649	\$21,472	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Lee, Yu Man	NATURAL FEATURES INVENTORY MSUE	CAMP GRAYLING SURVEYS
650	\$120,000	US DEPT OF THE INTERIOR	Rowe, Logan	NATURAL FEATURES INVENTORY MSUE	SURVEYS AND MONITORING OF BUMBLE BEES IN MICHIGAN WITH A FOCUS ON BOMBUS AFFINIS AND B. TERRICOLA

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651	\$11,460	MICHIGAN BEAN COMMISSION	Steinke, Kurt	PLANT SOIL AND MICROBIAL SCIENCES	MDARD FERTILITY PROJECT - FINAL
RESEARCH AND INNOVATION					
652	\$236,511	COMMUNITY FOUNDATION HOLLAND ZEELAND AREA	Hunt, Paul	ASSOCIATE VICE PRESIDENT FOR RESEARCH	SUPPORT FOR BIOECONOMY INSTITUTE R&D DIRECTOR (DR. THOMAS GUARR)
653	\$1,300,000	NATIONAL SCIENCE FOUNDATION	Ofria, Charles	BIO/ COMPUTATIONAL EVOLUTION IN ACTION	BEACON: AN NSF CENTER FOR THE STUDY OF EVOLUTION IN ACTION
654	\$2,352,415	UNIVERSITY OF WISCONSIN MADISON	Landis, Douglas	GREAT LAKES BIOENERGY RESEARC CTR VPRGS	GREAT LAKES BIOENERGY RESEARCH CENTER
655	\$108,000	NATIONAL INST OF HEALTH	Atchison, William	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	FIRST TIME SUMMER RESEARCH EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES
656	\$487,216	NATIONAL INST OF HEALTH	Kaminski, Norbert	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	CANNABINOIDS MODULATE IMMUNE CELL-PROVOKED ASTROCYTE FUNCTIONS TO SUPPRESS HIV-ASSOCIATED NEUROINFLAMMATORY RESPONSES
657	\$315,647	NATIONAL INST OF HEALTH	Kaminski, Norbert	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	ADMINISTRATIVE SUPPLEMENTS TO SUPPORT COLLABORATIVE ACTIVITIES TO ENHANCE INTEROPERABILITY AND REUSE OF SUPERFUND RESEARCH PROGRAM (SRP) CENTER DATA
658	\$75,000	CHARLES J STROSACKER FOUNDATION	Hunt, Paul	MIDLAND ST ANDREWS	A PROPOSAL TO THE ROLLIN M. GERSTACKER FOUNDATION FOR THE 2020 AND 2021 SUPPORT OF MSU ST. ANDREWS.
659	\$100,000	ROLLIN GERSTACKER FOUNDATION	Hunt, Paul	MIDLAND ST ANDREWS	A PROPOSAL TO THE ROLLIN M. GERSTACKER FOUNDATION AND THE CHARLES J. STROSACKER FOUNDATION FOR THE 2020 AND 2021 SUPPORT OF MSU ST. ANDREWS
660	\$200,000	MICHIGAN ECONOMIC DEVELOPMENT CORP	Chylla, Richard	MSU INNOVATION CENTER	MICHIGAN EARLY STAGE PROOF OF CONCEPT FUND
661	\$169,665	VARIOUS INDUSTRIES	Hasemann, Charles	MSU INNOVATION CENTER	FEE FOR SERVICE - INDUSTRY
662	\$6,037	GOTCHA MOBILITY LLC	Nelson, Brice	MSU INNOVATION CENTER	GOTCHA REVENUE SHARE
663	\$680,000	MICHIGAN STATE UNIV FOUNDATION	Hsu, Stephen	RESEARCH AND INNOVATION SVP	FACILITATION GRANT (RG072997)
VICE PRES FOR STUDENT AFFAIRS SERVICES					

Gift, Grant and Contract Report
Board of Trustees
June 2020

	Amount	Sponsor	Director	Unit	Purpose
664	\$45,000	MICHIGAN COLLEGE ACCESS NETWORK	Maybank, Denise	STUDENT AFFAIRS & SERVICES VICE PRES	MCAN UNITED WAY OF SOUTHEAST MICHIGAN ADVISING SUBGRANT
GRADUATE SCHOOL DEAN					
665	\$1,569,000	NATIONAL SCIENCE FOUNDATION	Stoddart, Judith	GRADUATE SCHOOL DEAN	GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP)
666	\$74,136	UNIVERSITY OF WISCONSIN	McDaniels, Melissa	TEACHING ASSISTANT PROGRAMS	NSF INCLUDES ALLIANCE: INCLUSIVE GRADUATE EDUCATION NETWORK
UNIVERSITY ADVANCEMENT					
667	\$16,718,685	VARIOUS DONORS - ADVANCEMENT	Heil, Marti	VICE PRESIDENT UNIVERSITY ADVANCEMENT	GIFTS TO MSU FOR THE PERIOD 01/01/2020 TO 03/31/2020
ADMINISTRATION					
668	\$364,060	VARIOUS DONORS	Woo, Melissa	MSU FOUNDATION	QUARTERLY GIFT/GRANT TRANSFERS
FINANCE					
669	\$14,918,294	US DEPT OF EDUCATION	Haas, Mark	CONTROLLER	CARES ACT FUNDING REQUEST FOR MICHIGAN STATE UNIVERSITY - INSTITUTION PORTION (COVID-19)
670	\$6,457,309	VARIOUS GRANTORS	Pedawi, Evonne	SPONSORED PROGRAMS ADMIN CGA POSTAWARD	FEE FOR SERVICE - OTHER
GENERAL UNIVERSITY ITEMS					
671	\$809,092	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Weismantel, David	CENTER FOR SURVIVORS	SEXUAL ASSAULT VICTIM SERVICES FY - 2020
672	\$12,500	INGHAM COUNTY	Rosen, Holly	DOMESTIC SHELTER	SHELTER, ADVOCACY AND SUPPORT FOR DOMESTIC VIOLENCE SURVIVORS
673	\$20,700	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
VARIOUS					
674	\$289,973	VARIOUS	Various	Various	117 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION
	\$220,267,718	Total June 2020 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
JUNE 26, 2020

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	G4 PET Instrument #CLS139563	Precision Health	Human Medicine	\$409,700.00	Precision Health related research
2	Leonard Freed Japan Exhibition Collection: “The Concerned Photographer” including photographs, books & documents	Brigitte Freed Susannah Freed	Libraries	\$197,820.00	Special Collections Expendable Fund
3	Access to cattle, health & production records, TCDP facility, TCDP utilities & Intern housing	Green Meadow Farms Craig & Darcy Green	Large Animal Clinical Sciences	\$184,000.00	Research & education
4	Turf grass collection from the estate of Jim Beard	Harriet Beard	Libraries	\$71,320.00	Research in the Turf Grass Information Center.
5	Comic book collection	Craig Kunaschk	Libraries	\$27,708.71	Research in comic arts.
6	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$19,691.24	Air transportation for Coach Tucker.
7	Furnishings for Cowles House	American Interiors / Knoll	Cowles House renovation	\$17,394.00	Furnishing the Cowles House dining area.
8	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$16,279.99	Air transportation for Draymond Green jersey retirement event at Breslin Center.
9	Adhesive samples and dispense equipment	Lord Corporation	Civil & Environmental Engineering	\$9,600.00	Support research in the area of corrosion and durability of adhesives in extreme conditions.

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
10	Air transportation	Mike McNamara	Intercollegiate Athletics/ Spartan Fund	\$7,172.04	Men's basketball recruiting trip for Coach Izzo.
11	Parc centre tables and chairs	Landscape Forms	Cowles House renovation	\$5,550.00	Use in Cowles House.
12	Wesphalion gelding	Helena Woodward	Large Animal Clinical Sciences	\$5,000.00	Cushings research study
13-78	Various	Various	Various	\$48,209.66	66 Consolidated non-cash gifts for individual values less than \$5,000 Details on file Michigan State University Contract & Grant Administration Hannah Administration Bldg. 426 Auditorium Road, Room 2 East Lansing, MI
			TOTAL	\$1,014,335.64	