

**MICHIGAN STATE
UNIVERSITY**

April 8, 2022

MEMORANDUM

TO: Members of the Board of Trustees

FROM: Douglas A. Gage, Vice President 

SUBJECT: Gift, Grant, and Contract Report

RECOMMENDATION: That the Board of Trustees approve the attached Gift, Grant and Contract Report for the period of January 13, 2022, through March 23, 2022. The report is a compilation of 445 Gifts, Grants, and Contracts plus 29 Consignment/Non-Cash Gifts, with a total value of \$84,511,183.

FY 2021-22 TOTALS:

- | | |
|---|---------------|
| a) Gifts, Grants and Contracts only: | \$629,693,635 |
| b) Gifts, Grants and Contracts plus Consignments: | \$632,424,121 |
- (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.

Office of
**RESEARCH
AND INNOVATION**

Douglas A. Gage, Ph.D.
Vice President

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Current Period / Year to Date

Gift & Grant Awards

Meeting Date: 04/22/2022

Current Period: Jan 13, 2022 - Mar 23, 2022

AWARD TOTALS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$53,263,918	\$312,984,864	84.3%
State of Michigan	\$5,233,859	\$17,523,200	4.7%
Other	\$4,629,508	\$13,157,308	3.5%
Industry/CO	\$2,202,180	\$8,095,528	2.2%
Foundation	\$1,999,530	\$17,508,075	4.7%
Association	\$534,701	\$1,859,371	0.5%
Research - Total	\$67,863,696	\$371,128,345	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	\$11,915,309	\$78,298,800	30.3%
State of Michigan	\$494,780	\$6,412,029	2.5%
Other	\$1,099,784	\$15,309,074	5.9%
Industry/CO	\$27,000	\$2,613,778	1.0%
Foundation	\$2,847,804	\$7,334,930	2.8%
Association	\$49,836	\$221,666	0.1%
Various Donors - Advancement	\$0	\$148,375,013	57.4%
Non-Research - Total	\$16,434,514	\$258,565,290	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Amount % YTD
Federal Government	\$65,179,227	\$391,283,664	62.1%
State of Michigan	\$5,728,639	\$23,935,229	3.8%
Other	\$5,729,292	\$28,466,382	4.5%
Industry/CO	\$2,229,180	\$10,709,306	1.7%
Foundation	\$4,847,334	\$24,843,005	3.9%
Association	\$584,537	\$2,081,037	0.3%
Various Donors - Advancement	\$0	\$148,375,013	23.6%
TOTAL	\$84,298,210	\$629,693,635	100%

OF AWARDS

Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	184	957	58.8%
State of Michigan	27	86	5.3%
Other	71	219	13.5%
Industry/CO	53	198	12.2%
Foundation	15	81	5.0%
Association	12	86	5.3%
Research - Total	362	1,627	100%
Non-Research			
Gift/Grant Source	Current Period	Year to Date	% of Total YTD
Federal Government	37	243	50.8%
State of Michigan	7	37	7.7%
Other	15	75	15.7%
Industry/CO	2	36	7.5%
Foundation	20	73	15.3%
Association	2	11	2.3%
Various Donors - Advancement	0	3	0.6%
Non-Research - Total	83	478	100%
Total			
Gift/Grant Source	Current Period	Year to Date	Count % YTD
Federal Government	221	1,200	57.0%
State of Michigan	34	123	5.8%
Other	86	294	14.0%
Industry/CO	55	234	11.1%
Foundation	35	154	7.3%
Association	14	97	4.6%
Various Donors - Advancement	0	3	0.1%
TOTAL	445	2,105	100%

Current Year / Previous Year

Gift & Grant Awards

Meeting Date: 04/22/2022

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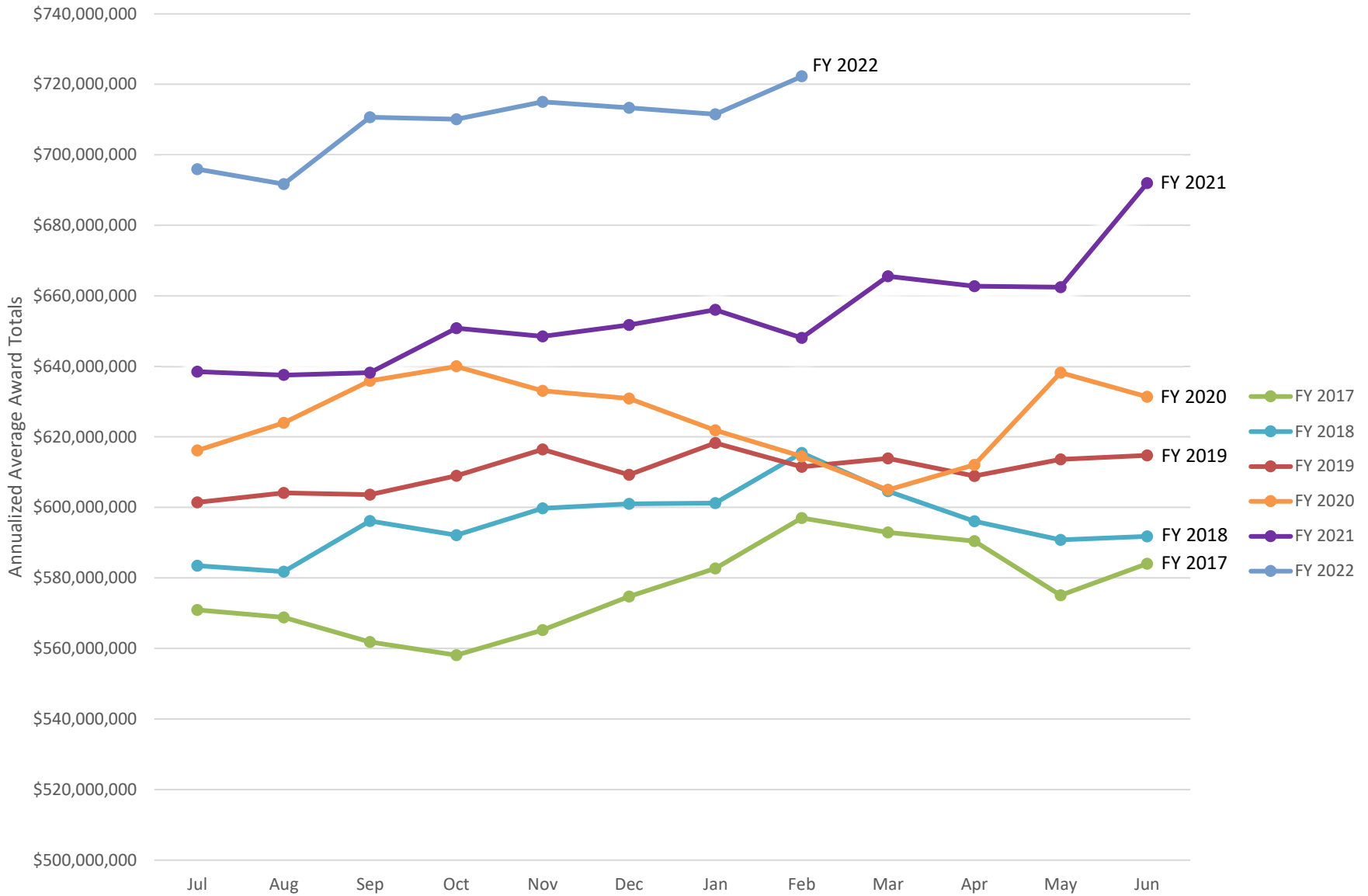
AWARD TOTALS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$325,620,352	\$312,984,864	-3.9%
State of Michigan	\$7,084,078	\$17,523,200	147.4%
Other	\$14,841,472	\$13,157,308	-11.3%
Industry/CO	\$7,920,258	\$8,095,528	2.2%
Foundation	\$15,018,013	\$17,508,075	16.6%
Association	\$2,895,190	\$1,859,371	-35.8%
Research - Total	\$373,379,362	\$371,128,345	-0.6%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	\$97,373,763	\$78,298,800	-19.6%
State of Michigan	\$36,732,741	\$6,412,029	-82.5%
Other	\$14,741,163	\$15,309,074	3.9%
Industry/CO	\$2,463,792	\$2,613,778	6.1%
Foundation	\$12,125,583	\$7,334,930	-39.5%
Association	\$196,223	\$221,666	13.0%
Various Donors - Advancement	\$63,405,070	\$148,375,013	134.0%
Non-Research - Total	\$227,038,336	\$258,565,290	13.9%
Total			
Gift/Grant Source	Previous YTD	Year to Date	Amount % Change
Federal Government	\$422,994,115	\$391,283,664	-7.5%
State of Michigan	\$43,816,818	\$23,935,229	-45.4%
Other	\$29,582,636	\$28,466,382	-3.8%
Industry/CO	\$10,384,050	\$10,709,306	3.1%
Foundation	\$27,143,596	\$24,843,005	-8.5%
Association	\$3,091,413	\$2,081,037	-32.7%
Various Donors - Advancement	\$63,405,070	\$148,375,013	134.0%
TOTAL	\$600,417,698	\$629,693,635	4.9%

OF AWARDS

Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	954	957	0.3%
State of Michigan	75	86	14.7%
Other	239	219	-8.4%
Industry/CO	211	198	-6.2%
Foundation	78	81	3.8%
Association	244	86	-64.8%
Research - Total	1,801	1,627	-9.7%
Non-Research			
Gift/Grant Source	Previous YTD	Year to Date	% Change
Federal Government	218	243	11.5%
State of Michigan	38	37	-2.6%
Other	94	75	-20.2%
Industry/CO	87	36	-58.6%
Foundation	87	73	-16.1%
Association	15	11	-26.7%
Various Donors - Advancement	3	3	0.0%
Non-Research - Total	542	478	-11.8%
Total			
Gift/Grant Source	Acceptance Total	Year to Date	Count % Change
Federal Government	1,172	1,200	2.4%
State of Michigan	113	123	8.8%
Other	333	294	-11.7%
Industry/CO	298	234	-21.5%
Foundation	165	154	-6.7%
Association	259	97	-62.5%
Various Donors - Advancement	3	3	0.0%
TOTAL	2,343	2,105	-10.2%

Michigan State University 3 Year Annualized Average Awards



Top 10 Awards for the April 22, 2022 BOT Meeting

Rank	Sponsor Type	Award Amount	Principal Investigator	Sponsor	Department	New or Modification	Award Activity Type	Project Dates	Project Title
1	Federal Government	\$8,000,000	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
2	Federal Government	\$6,721,226	Anna Moore	National Inst of Health	RADIOLOGY HUMAN MEDICINE	New	Construction	09/20/2021 05/31/2026	Large Animal Facility for Imaging and Image-guided Therapies at MSU
3	Federal Government	\$3,750,000	Christoph Benning	US Dept of Energy	PLANT RESEARCH LABORATORY NAT SCIENCE	Modification	Research	12/01/1990 03/31/2023	Photosynthetic Energy Capture, Conversion and Storage: From Fundamental Mechanisms to Modular Engineering
4	State of Michigan	\$3,000,000	George Smith	Michigan Dept of Agriculture & Rural Development	MSU AGBIORESEARCH DIR OFC	New	Research	05/01/2022 06/30/2025	Michigan Alliance for Animal Agriculture - 2022
5	Federal Government	\$2,695,451	Stephanie Watts	National Inst of Health	PHARMACOLOGY TOXICOLOGY	New	Research	12/22/2021 11/30/2026	Perivascular Adipose Tissue (PVAT) as a Central Integrator of Vascular Health
6	Foundation	\$2,000,000	Yomaira Figueroa	The Andrew W Mellon Foundation	ENGLISH	New	Public Service	01/01/2022 12/31/2024	Diaspora Solidarities Laboratory
7	Federal Government	\$1,786,297	Xiaoming Liu	Intelligence Advanced Research Projects Activity	COMPUTER SCIENCE AND ENGINEERING	Modification	Research	11/12/2021 11/11/2025	Physics-driven Modeling and Learning for Person Recognition at a Distance and Altitude
8	Foundation	\$1,539,077	Jason Rowntree	Foundation for Food & Agriculture Research	ANIMAL SCIENCE DEPARTMENT MABR	Modification	Research	10/01/2021 09/30/2022	Metrics, management, and monitoring - an investigation in rangeland and pasture soil health and their drivers
9	Federal Government	\$1,517,749	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
10	Federal Government	\$1,166,667	Erica Tobe	Centers for Disease Control & Prevention	EXTENSION CHILDREN AND YOUTH	New	Public Service	07/01/2021 09/30/2021	FY21 Improving and Expanding Educational Messaging Around Vaccination with Michigan's Youth and Families through Trusted Messengers and MSU Extension Networks
	TOTAL	\$32,176,467							

Gift, Grant and Contract Report
Board of Trustees
April 2022

	Amount	Sponsor	Principal Investigator/Director	Unit	Project Title
COLLEGE OF AGRICULTURE AND NAT RESOURCES					
1	\$683,512	INTL FOOD POLICY RESEARCH INST	Boughton, Duncan	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	IFPRI - MAPSA 2
2	\$154,988	UNITED EGG PRODUCERS	Caputo, Vincenzina	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	ASSESSING THE IMPACT OF TRANSITIONING TO CAGE-FREE EGGS ON U.S. EGG FARMERS, RETAILERS, AND CONSUMERS.
3	\$51,471	MICHIGAN DEPT OF NATURAL RESOURCES	Lupi, Frank	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	PERM: FRANK LUPI – ECONOMIC ASPECTS OF WILDLIFE MANAGEMENT
4	\$78,914	UNIVERSITY OF MICHIGAN	Miller, Steven	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	“MAPPING AND BRIDGING BARRIERS IN KNOWLEDGE FLOWS OF HOW SOLAR PHOTOVOLTAICS AFFECT RURAL COMMUNITY ECONOMIES”
5	\$15,000	LINCOLN INST LAND POLICY	Skidmore, Mark	AGRICULTURAL FOOD AND RESOURCE ECONOMICS	VALUING LAND IN DETROIT USING THE OPTION VALUE APPROACH
6	\$650,000	NATIONAL INST OF FOOD & AGRICULTURE	Ernst, Catherine	ANIMAL SCIENCE DEPARTMENT ANR	CHARACTERIZING INTERGENERATIONAL RESILIENCE IN PIGS: IMPACTS OF GROUP-HOUSING ON EPIGENETIC MODIFICATIONS ASSOCIATED WITH BEHAVIORAL AND PHYSIOLOGICAL STRESS PHENOTYPES
7	\$80,395	COTTON INC	Lock, Adam	ANIMAL SCIENCE DEPARTMENT ANR	"MAXIMIZING THE YIELDS OF MILK FAT AND PROTEIN UTILIZING WHOLE COTTONSEED IN DAIRY COW DIETS: A DOSE RESPONSE STUDY"
8	\$10,050	VITA PLUS CORP	Rozeboom, Dale	ANIMAL SCIENCE DEPARTMENT ANR	RESEARCH GIFT
9	\$76,899	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Das, Narendra	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	DEVELOPMENT, TESTING AND IMPLEMENTATION OF LOW COST AND EFFECTIVE IN SITU SOIL MOISTURE SENSOR FOR CITIZEN SCIENCE
10	\$6,196	VAN BUREN CONSERVATION DISTRICT	Ghane, Ehsan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	MITIGATING AGRICULTURAL RUNOFF IN THE PAW PAW RIVER WATERSHEDS
11	\$21,871	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

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	Amount	Sponsor	Principal Investigator/Director	Unit	Project Title
12	\$100,000	NEXTENERGY	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	A MOBILE AGRICULTURAL WASTES UTILIZATION SYSTEM FOR SMALL-SCALE RENEWABLE ELECTRICITY GENERATION
13	\$224,829	BOOZ ALLEN HAMILTON INC	Liao, Wei	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	A COMBINED ELECTROCHEMICAL AND BIOLOGICAL BLACKWATER TREATMENT PROCESS
14	\$55,626	AGRICULTURAL RESEARCH SERVICE	Marks, Bradley	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	ACQUISITION OF GOODS AND SERVICES
15	\$150,000	KANSAS STATE UNIV	Nejadhashemi, Amirpouyan	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	GEOSPATIAL, FARMING SYSTEMS, AND DIGITAL TOOLS CONSORTIUM – BUILDING A NEW ERA OF PREDICTIVE AGRICULTURAL INNOVATION TO IMPROVE THE LIVELIHOOD OF SMALLHOLDER FARMERS
16	\$39,892	MICHIGAN CRAFT BEVERAGE COUNCIL	Safferman, Steven	BIOSYSTEMS AND AGRICULTURAL ENGINEERING	EVALUATION OF A GREENHOUSE ECOSYSTEM TO MANAGE CRAFT BEVERAGE WASTEWATER
17	\$169,615	HURON-CLINTON METROPOLITAN AUTHORITY	Perry, Elizabeth	DEPARTMENT OF COMMUNITY SUSTAINABILITY	RESEARCH SUPPORT FOR DEVELOPING THE HURON-CLINTON METROPARKS' CLIMATE ACTION PLAN
18	\$89,912	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	Scalera, Lindsey	DEPARTMENT OF COMMUNITY SUSTAINABILITY	GROWING THE IMPACT: BUILDING CAPACITY FOR STATEWIDE AND REGIONAL FOOD SYSTEM PLANS
19	\$300,000	W K KELLOGG FOUNDATION	Souza, Kolia	DEPARTMENT OF COMMUNITY SUSTAINABILITY	ADVANCING MICHIGAN GOOD FOOD POLICY FOR RACIAL EQUITY
20	\$79,952	FAIR FOOD NETWORK	Souza, Kolia	DEPARTMENT OF COMMUNITY SUSTAINABILITY	NUTRITION INCENTIVE PROGRAM TRAINING, TECHNICAL ASSISTANCE, EVALUATION AND INFORMATION CENTERS (NTAE) FOR THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) GUS SCHUMACHER NUTRITION INCENTIVE PROGRAM
21	\$100,000	MICHIGAN BLUEBERRY COMMISSION	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	DEMONSTRATING EXPORT-READY PEST MANAGEMENT PROGRAMS FOR MICHIGAN BLUEBERRIES
22	\$99,979	MICHIGAN STATE HORTICULTURAL SOCIETY	Isaacs, Rufus	ENTOMOLOGY AGRICULTURE AND NATURAL RES	IMPROVING GRAPE BERRY MOTH MANAGEMENT IN MICHIGAN VINEYARDS
23	\$72,442	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	McCullough, Deborah	ENTOMOLOGY AGRICULTURE AND NATURAL RES	RESEARCH ON EXOTIC FOREST PESTS IN MICHIGAN
24	\$51,000	BEE INFORMED PARTNERSHIP INC	Milbrath, Meghan	ENTOMOLOGY AGRICULTURE AND NATURAL RES	MICHIGAN STATE UNIVERSITY/MICHIGAN TECHNICAL TRANSFER TEAM TO MONITOR COLONY HEALTH

Gift, Grant and Contract Report
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	Amount	Sponsor	Principal Investigator/Director	Unit	Project Title
25	\$24,754	UNIVERSITY OF WISCONSIN	Walker, Edward	ENTOMOLOGY AGRICULTURE AND NATURAL RES	THE UPPER MIDWESTERN REGIONAL CENTER OF EXCELLENCE IN VECTOR-BORNE DISEASE
26	\$17,635	MICHIGAN APPLE COMMITTEE	Wilson, Julianna	ENTOMOLOGY AGRICULTURE AND NATURAL RES	TREE FRUIT INTEGRATOR POSITION
27	\$16,133	US FISH & WILDLIFE SERVICE	Bence, James	FISHERIES AND WILDLIFE	FEASIBILITY OF A STATISTICAL CATCH-AT-AGE OR -LENGTH MODEL TO ESTIMATE SPATIALLY EXPLICIT FISHING MORTALITY OF BIGHEADED CARPS IN THE ILLINOIS RIVER
28	\$72,405	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
29	\$15,000	MICHIGAN DEPT OF NATURAL RESOURCES	Campa, Henry	FISHERIES AND WILDLIFE	EFFECTS OF UNGULATE BROWSING ON REGENERATING ASPEN COMMUNITIES AND MICHIGAN FEATURED WILDLIFE SPECIES IN THE PIGEON RIVER COUNTRY STATE FOREST: A 40-YEAR EVALUATION
30	\$5,550	GREAT LAKES FISHERY COMMISSION	Jones, Michael	FISHERIES AND WILDLIFE	USING STOCK ASSESSMENT INFORMATION TO INFORM HARVEST POLICY IN DATA-LIMITED FISHERIES
31	\$64,892	MICHIGAN DEPT OF NATURAL RESOURCES	Kramer, Daniel	FISHERIES AND WILDLIFE	PERM - DAN KRAMER - SOCIAL, ECONOMIC, AND POLICY ASPECTS OF WILDERNESS MANAGEMENT
32	\$348,000	MICHIGAN DEPT OF ENVIRONMENT, GREAT LAKES, AND ENERGY	Latimore, Jo	FISHERIES AND WILDLIFE	MICHIGAN CLEAN WATER CORPS (MICORPS) PROGRAM ADMINISTRATION
33	\$18,354	GREAT LAKES FISHERY COMMISSION	Loch, Thomas	FISHERIES AND WILDLIFE	ASSESSMENT OF SUSCEPTIBILITY TO VSHV-IVB IN JUVENILE WHITE SUCKERS (CATOSTOMUS COMMERSONII) VIA CONTROLLED LABORATORY EXPERIMENTAL CHALLENGES
34	\$67,792	NATIONAL SCIENCE FOUNDATION	McCullough, Ian	FISHERIES AND WILDLIFE	COLLABORATIVE RESEARCH: RAPID: LAKE ECOSYSTEM RESPONSES TO FIRE ALONG GRADIENTS OF BURN CHARACTERISTICS AND HYDROLOGIC CONNECTIVITY
35	\$92,793	MICHIGAN DEPT OF NATURAL RESOURCES	Riley, Shawn	FISHERIES AND WILDLIFE	PERM: SHAWN RILEY - HUMAN DIMENSION CONSIDERATIONS IN WILDLIFE MANAGEMENT
36	\$101,698	GREAT LAKES FISHERY COMMISSION	Robinson, John	FISHERIES AND WILDLIFE	DEPLOY AND EVALUATE SEA LAMPREY CONTROLS THAT SUPPLEMENT LAMPRICIDES AND BARRIERS
37	\$82,398	GREAT LAKES FISHERY COMMISSION	Robinson, John	FISHERIES AND WILDLIFE	VALIDATE AND APPLY SEA LAMPREY DIET ANALYSIS USING DNA METABARCODING
38	\$55,129	GREAT LAKES FISHERY COMMISSION	Robinson, Kelly	FISHERIES AND WILDLIFE	THE CONSEQUENCES OF CONNECTIVITY
39	\$64,877	GREAT LAKES FISHERY COMMISSION	Robinson, Kelly	FISHERIES AND WILDLIFE	EVALUATING THE EFFECTS OF INCREASED PREDATOR AND COMPETITOR ABUNDANCES ON SLIMY SCULPIN POPULATIONS IN THE GREAT LAKES.

Gift, Grant and Contract Report
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	Amount	Sponsor	Principal Investigator/Director	Unit	Project Title
40	\$37,057	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	WILDLIFE RESPONSES TO INNOVATIVE SILVICULTURAL APPROACHES IN NORTHERN HARDWOOD FORESTS OF MICHIGAN
41	\$176,067	NORTH DAKOTA GAME & FISH DEPARTMENT	Roloff, Gary	FISHERIES AND WILDLIFE	DENSITY AND SURVIVAL OF AMERICAN MARTEN IN THE TURTLE MOUNTAINS OF NORTH DAKOTA
42	\$79,808	MICHIGAN DEPT OF NATURAL RESOURCES	Roloff, Gary	FISHERIES AND WILDLIFE	ROLOFF ANNUAL PERM AGREEMENT
43	\$27,783	MICHIGAN SEA GRANT COLLEGE PROGRAM	Vandergoot, Christopher	FISHERIES AND WILDLIFE	SOURCES OF WALLEYE RECRUITMENT AND NATURAL REPRODUCTION IN SAGINAW BAY
44	\$46,728	MICHIGAN DEPT OF NATURAL RESOURCES	Warwick, Alexa	FISHERIES AND WILDLIFE	PERM: ALEXA WARWICK – ENGAGEMENT, OUTREACH, AND HUMAN DIMENSIONS IN WILDLIFE MANAGEMENT
45	\$49,398	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	CHRONIC WASTING DISEASE DEER MOVEMENT STUDY
46	\$114,009	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	QWC: DAVID WILLIAMS – QUANTITATIVE WILDLIFE CENTER - PERM FY22
47	\$81,024	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
48	\$47,423	MICHIGAN DEPT OF NATURAL RESOURCES	Williams, David	FISHERIES AND WILDLIFE	QUANTIFYING FACTORS AFFECTING CHRONIC WASTING DISEASE TRANSMISSION AMONG DEER
49	\$70,398	MICHIGAN DEPT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	GREAT LAKES MALLARD MOVEMENTS, HABITAT SELECTION, SURVIVAL, AND PRODUCTIVITY
50	\$157,000	MICHIGAN DEPT OF NATURAL RESOURCES	Winterstein, Scott	FISHERIES AND WILDLIFE	WILDLIFE AND RECREATIONAL VALUE OF CREATED AND ENHANCED WETLANDS IN MICHIGAN
51	\$99,984	MICHIGAN TREE FRUIT COMMISSION	Bergholz, Teresa	FOOD SCIENCE AND HUM NUTRITION ANR	CHARACTERIZING APPLE STORAGE PRACTICES AND POTENTIAL RISK OF LISTERIA CONTAMINATION
52	\$100,000	TEXAS A&M UNIV	Bourquin, Leslie	FOOD SCIENCE AND HUM NUTRITION ANR	NEXT-GENERATION SMART SURFACES & COATINGS TO IMPROVE FOOD SAFETY AND WATER-EFFICIENCY OF U.S. SPECIALTY CROPS DURING HARVESTING, STORAGE, SORTING, AND PROCESSING
53	\$92,355	DUKE UNIV	Comstock, Sarah	FOOD SCIENCE AND HUM NUTRITION ANR	ECHO COORDINATING CENTER: OPPORTUNITIES AND INFRASTRUCTURE FUND (OIF)
54	\$50,000	BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION	Weatherspoon, Lorraine	FOOD SCIENCE AND HUM NUTRITION ANR	ASSESSING FOOD INSECURITY AND DIETARY BEHAVIOR TO ADDRESS OVERWEIGHT AND OBESITY IN FAMILY PRACTICE CLINICS

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	Amount	Sponsor	Principal Investigator/Director	Unit	Project Title
55	\$100,000	PENNSYLVANIA STATE UNIV	Clay, Kylie	FORESTRY	FOREST OWNER CARBON AND CLIMATE EDUCATION PROGRAM (FOCCE)
56	\$19,116	THE NATURE CONSERVANCY	Clay, Kylie	FORESTRY	COVARIATE ANALYSIS FOR NORTHEAST FAMILY FOREST CARBON PROGRAM
57	\$25,000	UNIVERSITY OF MAINE	Finley, Andrew	FORESTRY	FOREST CARBON ESTIMATION (FORCE): MAPPING GEDI-DERIVED FOREST STRUCTURE METRICS WITH PLOT-BASED INVENTORY & MULTIMODAL REMOTE SENSING DATA IN A HIERARCHICAL SPATIAL MODELING FRAMEWORK
58	\$20,000	NATIONAL WILDLIFE FEDERATION	Huff, Emily	FORESTRY	INFLUENCE OF AGRICULTURAL GROUP INVOLVEMENT ON FARMER MANAGEMENT CHANGES
59	\$9,999	MICHIGAN DEPT OF NATURAL RESOURCES	Pokharel, Raju	FORESTRY	ANALYSIS OF LOCATION, FEEDSTOCK AVAILABILITY, AND ECONOMIC CONTRIBUTIONS OF LOCATING A MASS TIMBER MANUFACTURING PLANT IN MICHIGAN.
60	\$374,498	NATIONAL SCIENCE FOUNDATION	Barry, Cornelius	HORTICULTURE ANR	REU SITE: PLANT GENOMICS @ MICHIGAN STATE UNIVERSITY
61	\$99,891	MICHIGAN VEGETABLE COUNCIL	Brainard, Daniel	HORTICULTURE ANR	ADVANCING AGBOT AND DRONE TECHNOLOGIES FOR SUSTAINABLE SOIL AND WEED MANAGEMENT IN VEGATABLES
62	\$10,466	MICHIGAN CRAFT BEVERAGE COUNCIL	Chaudhari, Sushila	HORTICULTURE ANR	EVALUATION OF NEW HERBICIDE [TIAFENACIL] IN MICHIGAN HOPS FOR CROP SAFETY AND WEED CONTROL
63	\$98,525	MICHIGAN CARROT COMMITTEE	Chaudhari, Sushila	HORTICULTURE ANR	ADVANCING WEED MANAGEMENT IN MICHIGAN CARROTS THROUGH NOVEL CULTURAL, ELECTRICAL, AND PHYSICAL APPROACHES
64	\$7,500	BELCHIM CROP PROTECTION US LLC	Chaudhari, Sushila	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF WEED MANAGEMENT RESEARCH
65	\$57,715	MICHIGAN CHRISTMAS TREE ASSOC	Cregg, Bert	HORTICULTURE ANR	SUSTAINABLE CHRISTMAS TREE PRODUCTION: A TRAINING PROGRAM FOR NEW AND CURRENT CHRISTMAS TREE PRODUCERS
66	\$231,483	UTAH STATE UNIV	Einhorn, Todd	HORTICULTURE ANR	IMPROVING THE ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY OF TART CHERRY PRODUCTION THROUGH PRECISION MANAGEMENT
67	\$15,000	NORTH CENTRAL REGION SARE AT THE UNIV OF MINNESOTA	Galbraith, Chris	HORTICULTURE ANR	EFFECT OF ELECTRICAL WEED CONTROL ON SOIL HEALTH AND CARROT CROP
68	\$25,529	JUDY DELAPA	Getter, Kristin	HORTICULTURE ANR	UNRESTRICTED GIFT IN SUPPORT OF THE HORTICULTURE GARDENS
69	\$100,000	MICHIGAN CELERY GROWERS RESEARCH COUNCIL	Hayden, Zachary	HORTICULTURE ANR	BUILDING RESILIENCE TO CHANGE IN MICHIGAN CELERY: STRATEGIES FOR WEED, NEMATODE, AND FERTILITY MANAGEMENT
70	\$25,000	COMERICA CHARITABLE TRUST	Runkle, Erik	HORTICULTURE ANR	SUPPORT OF ORNAMENTAL FLORICULTURE RESEARCH.

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71	\$10,000	MASTERPIECE FLOWER CO LLC	Runkle, Erik	HORTICULTURE ANR	UNRESTRICTED GIFT IN FLORICULTURE RESEARCH
72	\$12,000	MICHIGAN NURSERY & LANDSCAPE ASSOC	Saha, Debalina	HORTICULTURE ANR	DEBATING GLYPHOSATE, UNDERSTANDING THE PROMINENCE OF HERBICIDE RESISTANCE AND RESIDUALS IN NURSERIES: SPECIALTY CROPS MATTER!!
73	\$25,770	MICHIGAN CRAFT BEVERAGE COUNCIL	Vannocker, Steven	HORTICULTURE ANR	NEW APPLE VARIETIES FOR MICHIGAN HARD CIDER PRODUCTION
74	\$65,284	ENVIRONMENTAL RESEARCH & EDUCATION FOUNDATION	Almenar Rosaleny, Eva	PACKAGING	PACKAGING AND HOUSEHOLD FOOD WASTE INTERSECTIONS: FACTS AND CONSUMER AWARENESS
75	\$298,463	KRAFT FOODS INC	Auras, Rafael	PACKAGING	ACCELERATED BIODEGRADATION OF ISOTROPIC POLYESTERS AND MULTILAYER HIGH OXYGEN AND WATER BARRIER FILMS
76	\$185,528	REMADE INST	Rabnawaz, Muhammad	PACKAGING	DIVERTING MIXED POLYOLEFINS FROM MUNICIPAL SOLID WASTE TO FEEDSTOCKS FOR AUTOMOTIVE AND BUILDING APPLICATIONS
77	\$130,319	LOS ALAMOS NATL LABORATORY	Bonito, Gregory	PLANT SOIL AND MICROBIAL SCIENCES	BACTERIAL: FUNGAL INTERACTIONS AND THEIR ROLE IN SOIL FUNCTIONING
78	\$15,100	CORN MARKETING PROGRAM OF MICHIGAN	Burns, Erin	PLANT SOIL AND MICROBIAL SCIENCES	UTILIZING EARLY MATURING CORN HYBRIDS TO MAXIMIZE COVER CROP BIOMASS, SOIL HEALTH, CORN YIELD AND SUSTAINABLE INTEGRATED WEED MANAGEMENT IN MICHIGAN
79	\$75,000	PURDUE UNIV	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	A MULTI-STATE APPROACH TO ADVANCE INTEGRATED MANAGEMENT TOOLS TO MINIMIZE DISEASE LOSS FROM TAR SPOT ON CORN
80	\$58,000	CORN MARKETING PROGRAM OF MICHIGAN	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	OPTIMIZING MANAGEMENT OF TAR SPOT
81	\$35,000	MICHIGAN CRAFT BEVERAGE COUNCIL	Chilvers, Martin	PLANT SOIL AND MICROBIAL SCIENCES	REDUCING FUNGICIDE INPUTS WITHOUT SACRIFICING LATE SEASON DISEASE MANAGEMENT AND CROP QUALITY IN MICHIGAN HOP AND BARLEY PRODUCTION
82	\$100,000	MICHIGAN POTATO INDUSTRY COMMISSION	Douches, David	PLANT SOIL AND MICROBIAL SCIENCES	CLIMATE RESILIENCE IN POTATO: FIELD AND STORAGE ASSESSMENT
83	\$90,591	MICHIGAN VEGETABLE COUNCIL	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	GETTING TO THE ROOT OF THE PROBLEM: INCREASING VEGETABLE PLANT ESTABLISHMENT AND PRODUCTIVITY
84	\$92,370	GINSENG BOARD OF WISCONSIN	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	FIELD RESEARCH TO SUPPORT A NEW EXPORT MARKET FOR FRESH GINSENG

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85	\$86,950	MICHIGAN ASPARAGUS ADVISORY BOARD	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	INCREASING THE PRODUCTIVITY OF MICHIGAN ASPARAGUS THROUGH SUSTAINABLE DISEASE MANAGEMENT TACTICS
86	\$98,814	MICHIGAN ONION COMMITTEE	Hausbeck, Mary	PLANT SOIL AND MICROBIAL SCIENCES	COMBINING PEST CONTROL STRATEGIES TO INCREASE QUALITY OF YIELD OF MICHIGAN ONIONS
87	\$14,520	AGRICULTURAL RESEARCH SERVICE	Horgan, Brian	PLANT SOIL AND MICROBIAL SCIENCES	ACQUISITION OF GOODS AND SERVICES
88	\$46,207	OHIO STATE UNIV	Miesel, Jessica	PLANT SOIL AND MICROBIAL SCIENCES	LAKE STATES FIRE SCIENCE CONSORTIUM
89	\$133,735	AGRICULTURAL RESEARCH SERVICE	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPMENT, VALIDATION AND APPLICATION OF FUNGICIDE RESISTANCE MONITORING TOOLS FOR BOTRYTIS SSP. OF SPECIALTY CROPS
90	\$40,000	MICHIGAN CRAFT BEVERAGE COUNCIL	Miles, Timothy	PLANT SOIL AND MICROBIAL SCIENCES	FIELD SCALE MANAGEMENT OF LATE SEASON CLUSTER ROTS TO INCREASE CROP QUALITY OF MICHIGAN WINE GRAPES
91	\$79,230	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	DEVELOPING SOFT WINTER WHEAT VARIETIES FOR MICHIGAN, 2022
92	\$44,091	MICHIGAN WHEAT PROGRAM	Olson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	IMPROVED METHODS FOR ASSESSING PREHARVEST SPROUTING AND APPLICATIONS IN RESISTANT VARIETY DEVELOPMENT
93	\$10,290	CORN MARKETING PROGRAM OF MICHIGAN	Patterson, Eric	PLANT SOIL AND MICROBIAL SCIENCES	RAPID LEAF DISK ASSAYS FOR HERBICIDE RESISTANCE DIAGNOSTICS
94	\$19,965	CORN MARKETING PROGRAM OF MICHIGAN	Singh, Maninderpal	PLANT SOIL AND MICROBIAL SCIENCES	QUANTIFYING PHYSIOLOGICAL CONSEQUENCES AND MANAGEMENT OPTIONS FOR TAR SPOT IN CORN PRODUCTION
95	\$19,641	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
96	\$25,909	MICHIGAN CRAFT BEVERAGE COUNCIL	Sundin, George	PLANT SOIL AND MICROBIAL SCIENCES	INVESTIGATION OF APPLE FRUIT ROT CONTROL AND OF THE DIVERSITY OF WILD YEAST POPULATIONS ON CIDER AND DESSERT APPLE VARIETIES AND OUTCOMES ON FERMENTATION
97	\$40,000	CORN MARKETING PROGRAM OF MICHIGAN	Thompson, Addie	PLANT SOIL AND MICROBIAL SCIENCES	MICHIGAN GENOMES 2 FIELDS: AN ONGOING COLLABORATION WITH NCGA

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98	\$590,768	NATIONAL INST OF FOOD & AGRICULTURE	Thompson, Addie	PLANT SOIL AND MICROBIAL SCIENCES	GREAT LAKES TAR SPOT INITIATIVE II: ELUCIDATING MECHANISMS OF RESISTANCE
99	\$41,500	OHIO STATE UNIV	Wang, Dechun	PLANT SOIL AND MICROBIAL SCIENCES	SOYGEN2: INCREASING SOYBEAN GENETIC GAIN FOR YIELD BY DEVELOPING TOOLS, KNOW-HOW AND COMMUNITY AMONG PUBLIC BREEDERS IN THE NORTH CENTRAL US
100	\$100,000	MICHIGAN CARROT COUNCIL	Zhang, Wei	PLANT SOIL AND MICROBIAL SCIENCES	EVALUATING AND DISSEMINATING SOIL AMENDMENT PRACTICES TO MITIGATE HEAVY METAL UPTAKE BY CARROT
101	\$20,314	NATIONAL HOUSING ENDOWMENT	Mollaoglu, Sinem	SCHOOL OF PLANNING DES CONSTRUCTION ANR	2018 HELP- MSU CONSTRUCTION MANAGEMENT PROGRAM
COLLEGE OF ARTS AND LETTERS					
102	\$8,000	SEATTLE CHILDRENS HOSPITAL	Baker Bell, April	ENGLISH	A CROSS-DISCIPLINARY APPROACH TO ANTI-RACIST MEDICAL EDUCATION
103	\$2,000,000	THE ANDREW W MELLON FOUNDATION	Figueroa, Yomaira	ENGLISH	DIASPORA SOLIDARITIES LABORATORY
104	\$99,908	NATIONAL ENDOWMENT FOR THE HUMANITIES	Sneller, Betsy	LINGUISTICS, LANGUAGES, AND CULTURES	BUILDING AND DISSEMINATING AN APP FOR ETHNOGRAPHIC REMOTE AUDIO RECORDING
105	\$22,527	US DEPT OF STATE	Winke, Paula	LINGUISTICS, LANGUAGES, AND CULTURES	INNOVATIONS IN FOREIGN LANGUAGE TEST DESIGN
ARTS & HUMANITIES, RESIDENTIAL COLL IN					
106	\$30,000	NATIONAL ENDOWMENT FOR THE ARTS	Macdowell, Marsha	ARTS & HUMANITIES, RESIDENTIAL COLL IN	MICHIGAN TRADITIONAL ARTS APPRENTICESHIP AND MICHIGAN HERITAGE AWARD PROGRAMS
ELI BROAD COLLEGE OF BUSINESS					
107	\$60,516	CARNEGIE MELLON UNIV	Susarla, Anjana	ACCOUNTING AND INFORMATION SYSTEMS	LEVERAGING YOUTUBE VIDEO ANALYTICS FOR PATIENT EDUCATION: A DIGITAL THERAPY TOOL FOR CLINICIANS TO RETRIEVE AND SHARE UNDERSTANDABLE VIDEOS ON CHRONIC DISEASE MANAGEMENT
108	\$36,601	MICHIGAN ECONOMIC DEVELOPMENT CORP	Kirca, Ahmet	INTERNATIONAL BUSINESS CENTER	MEDC INTERNATIONAL INTERNSHIP PROGRAM

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109	\$377,064	US ARMY RESEARCH INST FOR THE BEHAVIORAL & SOCIAL SCIENCES	Morgeson, Frederick	MANAGEMENT	LEADERSHIP AS EVENT MANAGEMENT: TOWARD A CONTEXTUALIZED AND DYNAMIC THEORY OF LEADERSHIP (DOMAINS 3 & 4)
110	\$28,000	KOREA TOURISM ORGANIZATION	Kim, Mi Ran	THE SCHOOL OF HOSPITALITY BUSINESS	CURRENT AND FUTURE TRENDS OF K-CULTURE POPULARITY IN THE U.S. AND IMPACTS OF K-CULTURE ON WILLINGNESS TO VISIT KOREA
111	\$10,000	STATLER FOUNDATION	Kim, Mi Ran	THE SCHOOL OF HOSPITALITY BUSINESS	IMPACTS AND BENEFITS OF GREEN-CERTIFIED HOTELS: PERSPECTIVES FROM FINANCIAL PERFORMANCE AND EMPLOYEES' JOB PERCEPTIONS AND PERFORMANCE
112	\$13,400	STATLER FOUNDATION	Namasivayam, Karthikeyan	THE SCHOOL OF HOSPITALITY BUSINESS	UNDERSTANDING THE IMPACT OF TECHNOLOGICAL ADVANCES ON HOSPITALITY ORGANIZATIONAL STRUCTURE AND DESIGN INCLUDING HUMAN RESOURCE REALLOCATIONS
COLLEGE OF COMMUNICATION ARTS SCIENCES					
113	\$156,011	UNIVERSITY OF PENNSYLVANIA	Sanders-Jackson, Ashley	ADVERTISING AND PUBLIC RELATIONS	PROJECT RESIST – INCREASING RESISTANCE TO TOBACCO MARKETING AMONG YOUNG ADULT SEXUAL MINORITY WOMEN USING INOCULATION MESSAGE APPROACHES
114	\$83,333	DETROIT PUBLIC TELEVISION	Elkins, Susanne	BROADCASTING SERVICES	DPTV MICHIGAN LEARNING CHANNEL
115	\$79,493	CENTERS FOR DISEASE CONTROL & PREVENTION	Dearing, James	COMMUNICATION	DEARING INTERGOVERNMENTAL PERSONNEL ACT (IPA) - CDC/PPEB
116	\$120,000	MERIT NETWORK INC	Bauer, Johannes	MEDIA AND INFORMATION	RURAL DIGITAL INEQUITIES AND THE COVID-19 PANDEMIC: EDUCATIONAL ATTAINMENT, STUDENT PERFORMANCE, PSYCHOLOGICAL WELLBEING, AND POST-SECONDARY EDUCATION ASPIRATIONS
COLLEGE OF EDUCATION					
117	\$125,000	GOGEBIC ONTONAGON INTERMEDIATE SCHOOL DISTRICT	Beverly, Bryan	CED OUTREACH	BEYOND THE FOCUS GROUP: CULTIVATING STUDENT AGENCY AND LEADERSHIP
118	\$108,000	LANSING SCHOOL DISTRICT	Beverly, Bryan	CED OUTREACH	FACILITATOR FOR LANSING SCHOOL DISTRICT STRATEGIC PLANNING
119	\$360,948	INST OF EDUCATION SCIENCES	Frank, Kenneth	COUNSELING, EDUC PSYCH & SPEC EDUC	QUANTIFYING THE ROBUSTNESS OF CAUSAL INFERENCES: EXTENSIONS AND APPLICATION TO EXISTING DATABASES
120	\$40,000	HOLT PUBLIC SCHOOLS	Plavnick, Joshua	COUNSELING, EDUC PSYCH & SPEC EDUC	HOLT PUBLIC SCHOOLS CONTRACT

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121	\$120,000	UNIVERSITY OF WISCONSIN	Umucu, Emre	COUNSELING, EDUC PSYCH & SPEC EDUC	INCREASING STATE VOCATIONAL REHABILITATION AGENCY CAPACITY TO PLACE PERSONS WITH DISABILITIES IN HIGH QUALITY EMPLOYMENT SETTINGS
122	\$35,000	AMER EDUCATIONAL RESEARCH ASSOC	Witmer, Sara	COUNSELING, EDUC PSYCH & SPEC EDUC	EXPLORING THE ROLE OF ACCOMMODATION AND ACCESSIBILITY TOOL USE FOR ADDRESSING MATH TEST SCORE VALIDITY CONCERNS
123	\$75,111	VARIOUS SCHOOLS	Markle, Barbara	EDUCATION DEAN	K-12 SCHOOL IMPROVEMENT TRAINING
124	\$50,000	BRAINSCOPE CO INC	Covassin, Tracey	KINESIOLOGY - ED	EVALUATION AND VALIDATION OF A MULTIMODAL BRAIN FUNCTION BIOMARKER WITH NPC
125	\$99,996	MICHIGAN HEALTH ENDOWMENT FUND	Hauck, Janet	KINESIOLOGY - ED	ACCESSIBLE – ONLINE NUTRITION & EXERCISE (A-ONE)
126	\$275,000	BOARD OF MEDICINE	Pontifex, Matthew	KINESIOLOGY - ED	DOUBLE-BLIND RANDOMIZED PLACEBO-CONTROLLED TRIAL OF THE EFFICACY OF THE APOLLO SYSTEM FOR CHILDREN WITH ADHD
127	\$9,995	AMER COUNCILS FOR INTL EDUCATION	Hartman, Douglas	TEACHER EDUCATION	IMPROVING MULTIMEDIA USE THROUGH DESIGN 2.0: EXTENDING A VIRTUAL PARTNERSHIP FOR CO-DEVELOPING AN INNOVATIVE & SUSTAINABLE TECHNOLOGY CURRICULUM
COLLEGE OF ENGINEERING					
128	\$9,991	THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY	Bieler, Thomas	CHEMICAL ENGINEERING AND MATERIALS SCI	CHARACTERIZATION OF NIOBIUM INGOT SLICES
129	\$130,337	NATIONAL SCIENCE FOUNDATION	Cheng, Shiwang	CHEMICAL ENGINEERING AND MATERIALS SCI	SPATIAL GRADIENTS IN DYNAMICS OF NEAR-INTERFACE POLYMERS: EXPERIMENTS AND THEORY
130	\$12,701	NANOMAG LLC	Hickey, David	CHEMICAL ENGINEERING AND MATERIALS SCI	COMMERCIALIZATION READINESS PROGRAM (CRP) FOR BIOABSORBABLE MAGNESIUM (MG) IMPLANTS FOR CRANIOMAXILLOFACIAL SURGICAL SYSTEMS
131	\$74,424	DOMICO MED-DEVICE	Jayaraman, K	CHEMICAL ENGINEERING AND MATERIALS SCI	CHARACTERIZATION AND FORMING OF COMPOSITES WITH MIXED ARCHITECTURE
132	\$249,975	TOYOTA MOTOR CORP	Lunt, Richard	CHEMICAL ENGINEERING AND MATERIALS SCI	HIGHLY EFFICIENT VISIBLY TRANSPARENT SOLAR CELL MODULE FOR BATTERY ELECTRIC VEHICLE DEPLOYMENT
133	\$555,000	UBIQUITOUS ENERGY INC	Lunt, Richard	CHEMICAL ENGINEERING AND MATERIALS SCI	TRANSPARENT AND PEROVSKITE SOLAR CELL DEVICES

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134	\$55,000	ALFRED P SLOAN FOUNDATION	Mendoza Cortes, Jose	CHEMICAL ENGINEERING AND MATERIALS SCI	PHOTOCHEMICAL AMINE PRODUCTION FROM N2 AND CO2
135	\$26,527	MICHIGAN CRAFT BEVERAGE COUNCIL	Shriner, Nicole	CHEMICAL ENGINEERING AND MATERIALS SCI	EVALUATION OF CORN VARIETIES FOR THE MICHIGAN CRAFT DISTILLING INDUSTRY
136	\$36,685	NATIONAL SCIENCE FOUNDATION	Cetin, Bora	CIVIL AND ENVIRONMENTAL ENGINEERING	COLLABORATIVE RESEARCH: ENGINEERED WATER REPELLENCY TO MITIGATE FROST SUSCEPTIBILITY: DECOUPLING OSMOTIC AND MATRIC POTENTIAL
137	\$398,806	NATIONAL SCIENCE FOUNDATION	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	CAREER: IMPROVING THE PARTICIPATION OF DIVERSE RESIDENTIAL BUILDINGS IN DEMAND SIDE MANAGEMENT
138	\$10,000	DTE ENERGY	Cetin, Kristen	CIVIL AND ENVIRONMENTAL ENGINEERING	DTE E-CHALLENGE
139	\$72,000	US GEOLOGICAL SURVEY	Mantha, Phanikumar	CIVIL AND ENVIRONMENTAL ENGINEERING	CLADOPHORA IN THE GREAT LAKES: FIELD OBSERVATIONS AND MODELING
140	\$321,706	NATIONAL SCIENCE FOUNDATION	Pokhrel, Yadu	CIVIL AND ENVIRONMENTAL ENGINEERING	BLUEGEM: BIOSPHERE AND LAND USE EXCHANGES WITH GROUNDWATER AND SOILS IN EARTH SYSTEM MODELS
141	\$644,896	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Xagorarakis, Irene	CIVIL AND ENVIRONMENTAL ENGINEERING	WASTEWATER SURVEILLANCE AT THE GREAT LAKES WATER AUTHORITY (GLWA) WATER RESOURCE RECOVERY FACILITY (WRRF) AND AT SELECT LOCATIONS IN WAYNE, MACOMB AND OAKLAND COUNTIES: SARS-COV-2 AND VARIANTS
142	\$25,000	LOS ALAMOS NATL LABORATORY	Murillo, Michael	COMPUTATIONAL MATH SCI AND ENGR EGR	MACHINE LEARNING IDENTIFICATION FOR KINETIC UPSCALING
143	\$75,000	OFFICE OF NAVAL RESEARCH	Kordjamshidi, Parisa	COMPUTER SCIENCE AND ENGINEERING	A DECLARATIVE LEARNING BASED PROGRAMMING FRAMEWORK FOR INTEGRATION OF DOMAIN KNOWLEDGE AND STATISTICAL LEARNING
144	\$457,904	NATIONAL SCIENCE FOUNDATION	Liu, Kevin	COMPUTER SCIENCE AND ENGINEERING	CAREER: FUTURE PHYLOGENIES: NOVEL COMPUTATIONAL FRAMEWORKS FOR BIOMOLECULAR SEQUENCE ANALYSIS INVOLVING COMPLEX EVOLUTIONARY ORIGINS
145	\$70,000	CISCO SYSTEMS	Liu, Sijia	COMPUTER SCIENCE AND ENGINEERING	BEYOND ADVERSARIAL TRAINING: TOWARDS GENERALIZABLE AND SCALABLE ROBUST DEEP LEARNING
146	\$1,786,297	INTELLIGENCE ADVANCED RESEARCH PROJECTS ACTIVITY	Liu, Xiaoming	COMPUTER SCIENCE AND ENGINEERING	PHYSICS-DRIVEN MODELING AND LEARNING FOR PERSON RECOGNITION AT A DISTANCE AND ALTITUDE

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147	\$300,000	GEORGE MASON UNIV	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	IDENTITY SCIENCES INTERDISCIPLINARY RESEARCH
148	\$20,000	CLARKSON UNIV	Ross, Arun	COMPUTER SCIENCE AND ENGINEERING	MEMBERSHIP SUPPORT FOR CENTER FOR IDENTIFICATION TECHNOLOGY RESEARCH (CITER)
149	\$72,984	CISCO SYSTEMS	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	TOWARD FAIRNESS IN ADVERSARIAL DEFENSES
150	\$46,657	PENNSYLVANIA STATE UNIV	Tang, Jiliang	COMPUTER SCIENCE AND ENGINEERING	TOWARD INTERPRETABLE AND STABLE GRAPH NEURAL NETWORKS
151	\$22,330	KBR	Albrecht, John	ELECTRICAL AND COMPUTER ENGINEERING	DEVELOPMENT OF A HIGH-ELECTRIC FIELD CARRIER MOBILITY MODELING TOOL BASED ON THE FIRST-PRINCIPLES EPW PACKAGE
152	\$27,728	FRAUNHOFER USA	Asmussen, Jes	ELECTRICAL AND COMPUTER ENGINEERING	FRAUNHOFER CENTER RENEWAL
153	\$200,000	NATIONAL SCIENCE FOUNDATION	Bopardikar, Shaunak	ELECTRICAL AND COMPUTER ENGINEERING	SATC: CORE: SMALL: DATA-DRIVEN ATTACK AND DEFENSE MODELING FOR CYBER-PHYSICAL SYSTEMS
154	\$170,898	OFFICE OF NAVAL RESEARCH	Kiumarsi Khomartash, Bahare	ELECTRICAL AND COMPUTER ENGINEERING	TOWARDS HIGH-CONFIDENCE REINFORCEMENT LEARNING ALGORITHMS FOR SAFETY-CRITICAL SYSTEMS VIA DUAL PROCESS THEORY OF REASONING
155	\$284,721	LAWRENCE LIVERMORE NATIONAL LABORATORY	Nanzer, Jeffrey	ELECTRICAL AND COMPUTER ENGINEERING	WIRELESS COORDINATION FOR DISTRIBUTED HIGH-POWER MICROWAVE SOURCES
156	\$7,189	PRINCETON UNIV	Srivastava, Vaibhav	ELECTRICAL AND COMPUTER ENGINEERING	RESILIENCE AND ROBUSTNESS IN ECOLOGICAL DISTRIBUTED DECISION-MAKING DYNAMICS
157	\$60,000	TOYOTA MOTOR CORP	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	PVC GEL ACTUATORS
158	\$39,985	GREAT LAKES FISHERY COMMISSION	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	SMART PANEL FOR DETECTION AND DETERRENCE OF SEA LAMPREYS
159	\$35,097	GREAT LAKES FISHERY COMMISSION	Tan, Xiaobo	ELECTRICAL AND COMPUTER ENGINEERING	OPEN-SOURCE UNMANNED SURFACE VEHICLE (USV) FOR MOBILE ACOUSTIC TELEMETRY

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160	\$165,224	ELECTRIC POWER RESEARCH INST	Udpa, Lalita	ELECTRICAL AND COMPUTER ENGINEERING	SIMULATION MODEL FOR EDDY CURRENT SC TUBE INSPECTION
161	\$237,458	MASSACHUSETTS GENERAL HOSPITAL	Gilad, Assaf	INSTITUTE FOR QUANTITATIVE HEALTH	ARTIFICIAL INTELLIGENCE BOOSTED EVOLUTION AND DETECTION OF GENETICALLY ENCODED REPORTERS FOR IN VIVO IMAGING
162	\$555,742	NATIONAL INST OF HEALTH	Li, Wen	INSTITUTE FOR QUANTITATIVE HEALTH	MICROFABRICATED ALL-DIAMOND MICROELECTRODE ARRAYS FOR NEUROTRANSMITTER SENSING AND EXTRACELLULAR RECORDING
163	\$394,215	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
164	\$230,052	GLADIATOR BIOSCIENCES	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	MATERIAL TRANSFER AGREEMENT
165	\$25,000	UNIVERSITY OF MICHIGAN	Chung, Haseung	MECHANICAL ENGINEERING	NOVEL SMALL MOLECULE FOR IMPROVED DENTAL IMPLANT OSSEointegration
166	\$52,275	OREGON STATE UNIV	Klausner, James	MECHANICAL ENGINEERING	A NOVEL ZERO LIQUID DISCHARGE WATER DESALINATION PROCESS USING HUMIDIFICATION-DEHUMIDIFICATION IN A THERMALLY-ACTUATED FLUIDIZED
167	\$72,000	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Koochesfahani, Manoochehr	MECHANICAL ENGINEERING	PHASE 2: ZBOT-2 THERMOMETRY DIAGNOSTICS DEVELOPMENT
168	\$11,583	UNIVERSITY OF KENTUCKY	Lee, Lik-Chuan	MECHANICAL ENGINEERING	MULTISCALE MODELING OF INHERITED CARDIOMYOPATHIES AND THERAPEUTIC INTERVENTIONS
169	\$131,877	MASSACHUSETTS INST OF TECH LINCOLN LABS	Mejia, Ricardo	MECHANICAL ENGINEERING	TORSO HEMORRHAGE MANAGEMENT
170	\$75,000	OFFICE OF NAVAL RESEARCH	Nadimpalli, Siva	MECHANICAL ENGINEERING	DEVELOPMENT OF STRAIN-BASED HEALTH MONITORING AND THERMAL RUNAWAY DETECTION METHOD
COLLEGE OF HUMAN MEDICINE					
171	\$8,651	GLAXOSMITHKLINE	Cole, Craig	CANCER CENTER	PHASE I/II OPEN LABEL DOSE ESCALATION & EXPANSION STUDY TO EVALUATE SAFETY TOLERABILITY & CLINICAL ACTIVITY OF THE ANTIBODY DRUG CONJUGATE GSK2857916 ADMINISTERED IN COMBINATION WITH LENALIDOMIDE
172	\$5,120	SEATTLE GENETICS INC	Isaac, Daniel	CANCER CENTER	A STUDY OF ENFORTUMAB VEDOTIN (ASG-22CE) AS MONOTHERAPY OR IN COMBINATION WITH OTHER ANTICANCER THERAPIES FOR THE TREATMENT OF UROTHELIAL CANCER.

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173	\$50,000	STEPHANIE H. & DAVID A. SPINA FAMILY FOUNDATION	Custack, Amy	CHM FLINT	EXPANSION OF IN-PERSON AND VIRTUAL HEALTHY COOKING PROGRAMS FOR YOUTH IN FLINT, MICHIGAN
174	\$55,000	GREATER FLINT HEALTH COALITION	Furr-Holden, Debra	CHM FLINT	FLINT & GENESEE COUNTY - REACH (RACIAL AND ETHNIC APPROACHES TO COMMUNITY HEALTH)
175	\$5,524	EAST TENNESSEE STATE UNIVERSITY	Johnson, Jennifer	CHM FLINT	REDUCING STIGMA AMONG INDIVIDUALS WITH ADDICTION AND STAFF IN THE CRIMINAL JUSTICE SYSTEM: A PILOT FEASIBILITY TRIAL
176	\$112,110	NATIONAL INST ON MINORITY HEALTH & HEALTH DISPARITIES	Key, Kent	CHM FLINT	FAMILY HEALTH HISTORIES: CREATING A CULTURALLY TAILORED TOOL TO REDUCE HEALTH DISPARITIES IN THE AFRICAN AMERICAN COMMUNITY
177	\$5,662	PARTNERSHIP TO END ADDICTION	Ondersma, Steven	CHM FLINT	DEVELOPING A SCREENING AND BRIEF INTERVENTION PACKAGE TO ADDRESS SUBSTANCE USE RISK IN PREGNANT AND POSTPARTUM WOMEN IN HOME VISITING PROGRAMS
178	\$150,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Ondersma, Steven	CHM FLINT	MICHIGAN STATE OPIOID RESPONSE 2 PROJECT HT2 TECHNOLOGY PROPOSAL (HT2 MI) SAMHSA STATE OPIOID RESPONSE
179	\$308,454	NATIONAL INST OF HEALTH	Ondersma, Steven	CHM FLINT	ACCELERATING COLLABORATIVE, CUMULATIVE, AND OPEN INTERVENTION SCIENCE WITH AN E-INTERVENTION AUTHORIZING PLATFORM
180	\$66,044	UNIVERSITY OF MICHIGAN	Ondersma, Steven	CHM FLINT	COMPREHENSIVE MC3 FOR MOMS
181	\$50,000	BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION	Sneed, Rodlescia	CHM FLINT	HARNESSING EDUCATION AND LIFESTYLE CHANGE TO SUPPORT TRANSITIONAL HEALTH (HEALTH) FOR RETURNING CITIZENS: A PILOT STUDY
182	\$200,552	SPECTRUM HEALTH - MSU ALLIANCE CORP	Oostema, John	EMERGENCY MEDICINE	DEVELOPMENT AND IMPLEMENTATION OF A REGIONAL ACUTE LVO STROKE PROTOCOL FOR IDEAL DESTINATION DECISIONS (RAPIDD)
183	\$69,923	UNIVERSITY OF MICHIGAN	Bohnert, Kipling	EPIDEMIOLOGY AND BIOSTATISTICS	ASSOCIATION BETWEEN STATE-LEVEL PRESCRIPTION OPIOID LIMITATION LAWS & SUICIDE OUTCOMES
184	\$19,392	SEATTLE CHILDRENS HOSPITAL	Brincks, Ahnalee	EPIDEMIOLOGY AND BIOSTATISTICS	USING SMART DESIGN TO IDENTIFY AN EFFECTIVE AND COST-BENEFICIAL APPROACH TO PREVENTING OUD IN JUSTICE-INVOLVED YOUTH. PHASE II APPLICATION. TRANSITION FROM PHASE I (UG3) TO PHASE II (UH3).
185	\$1,145,818	NATIONAL INST OF HEALTH	Chen, Honglei	EPIDEMIOLOGY AND BIOSTATISTICS	PESTICIDES, OLFACTION, AND NEURODEGENERATION AMONG US FARMERS
186	\$64,072	AMER HEART ASSOC	Hailat, Raed	EPIDEMIOLOGY AND BIOSTATISTICS	DETERMINANTS OF LONG-TERM OUTCOMES AFTER ISCHEMIC STROKE: INSIGHTS FROM LINKED MICHIGAN COVERDELL ACUTE STROKE REGISTRY
187	\$139,113	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Lenski, Madeleine	EPIDEMIOLOGY AND BIOSTATISTICS	ENVIRONMENT, EPIGENETICS, NEURODEVELOPMENT & HEALTH IN EXTREMELY PRETERM CHILDREN

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188	\$26,774	UNIVERSITY OF MICHIGAN	Margerison, Claire	EPIDEMIOLOGY AND BIOSTATISTICS	STRUCTURAL RACISM AND ADVERSE BIRTH OUTCOMES IN THE US SOUTH: A MULTIGENERATIONAL PERSPECTIVE
189	\$318,695	UNIVERSITY OF MINNESOTA	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	LOOKING BACK TO LOOK FORWARD: SOCIAL ENVIRONMENT ACROSS THE LIFE COURSE, EPIGENETICS, AND BIRTH OUTCOMES IN BLACK FAMILIES
190	\$42,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Misra, Dawn	EPIDEMIOLOGY AND BIOSTATISTICS	COVID-19 MORTALITY REVIEW SUPPORT
191	\$28,444	UNIVERSITY OF ALABAMA AT BIRMINGHAM	Vazquez, Ana	EPIDEMIOLOGY AND BIOSTATISTICS	FUNCTIONAL AND INTEGRATIVE OMICS OF RECURRENT GOUT FLARES
192	\$20,110	SPECTRUM HEALTH FOUNDATION	Arnetz, Bengt	FAMILY MEDICINE, DEPARTMENT OF	TRANSLATING NEUROSCIENTIFIC STRESS RESEARCH TO ADDRESS COVID-19-INDUCED COGNITIVE DISORDERS
193	\$25,000	HENRY FORD HEALTH SYSTEM	Ilardo, Joan	HUMAN MEDICINE DEAN	IMPROVING OLDER ADULT HEALTHCARE IN A VIRTUAL ENVIRONMENT
194	\$266,602	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Knickmeyer, Rebecca	INSTITUTE FOR QUANTITATIVE HEALTH	THE DEVELOPMENT OF GUT MICROBIOTA AND BEHAVIORAL INHIBITION IN CHILDHOOD: THE ROLE OF EARLY STRESS AND BRAIN DEVELOPMENT
195	\$1,106,714	NATIONAL INST OF HEALTH	Knickmeyer, Rebecca	INSTITUTE FOR QUANTITATIVE HEALTH	GENETIC INFLUENCES ON INFANT BRAIN DEVELOPMENT: UNDERSTANDING THE DEVELOPMENTAL ORIGINS OF MENTAL ILLNESS
196	\$417,853	NATIONAL INST OF HEALTH	Zinn, Kurt	INSTITUTE FOR QUANTITATIVE HEALTH	PREDICTING GLYMPHATIC FUNCTION VIA PET/MR IMAGING BIOMARKERS AND NOSE TO BRAIN CONTRAST DELIVERY
197	\$17,923	UNIVERSITY OF MICHIGAN	Rosenman, Kenneth	MEDICINE	SUPERFUND RESEARCH PROGRAM OCCUPATIONAL HEALTH AND SAFETY EDUCATION PROGRAMS ON EMERGING TECHNOLOGIES
198	\$38,023	NATIONAL INST OF HEALTH	Fazleabas, Asgerally	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	CYTOSKELETAL REGULATION OF THE HIPPO AND NOTCH1 SIGNALING PATHWAYS IN ENDOMETRIAL STROMAL CELL DECIDUALIZATION AND ENDOMETRIOSIS
199	\$69,975	UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	SIRT1 AS A THERAPEUTIC TARGET IN ENDOMETRIOSIS
200	\$584,123	NATIONAL INST OF HEALTH	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE ROLE OF CHOLESTEROL BIOSYNTHESIS IN METASTATIC AND RECURRENT ENDOMETRIAL CANCER
201	\$532,072	NATIONAL INST OF HEALTH	Jeong, Jaewook	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	EPIGENETIC REGULATION OF RECEPTIVE ENDOMETRIUM

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202	\$25,715	BOSTON CHILDRENS HOSPITAL	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	DEFINING THE ROLE FOR DESCENDING PAIN MODULATION AND REWARD-AVERSION PROCESSES TOWARDS THE DEVELOPMENT OF CHRONIC PAIN IN ENDOMETRIOSIS
203	\$91,331	BOSTON CHILDRENS HOSPITAL	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	THE BOSTON CENTER FOR ENDOMETRIOSIS / WOMEN'S HEALTH STUDY: FROM ADOLESCENCE TO ADULTHOOD
204	\$10,000	NEZHAT FAMILY FOUNDATION	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	ADVANCING ENDOMETRIOSIS DISCOVERY
205	\$15,202	FRED HUTCHINSON CANCER RESEARCH CENTER	Missmer, Stacey	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	AN AHEI DIETARY INTERVENTION TO REDUCE PAIN IN WOMEN WITH ENDOMETRIOSIS
206	\$189,035	UNIVERSITY OF MICHIGAN	Poland, Cara	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	MICHIGAN OPIOID COLLABORATIVE
207	\$118,228	NATIONAL CANCER INST	Wilson, Michael	OBSTETRICS GYNECOLOGY & REPRODUCTIVE BIO	DOES OBESITY INFLUENCE PROTEIN QUALITY CONTROL IN ENDOMETRIAL CANCER?
208	\$51,175	NATIONAL INST OF HEALTH	Chen, Bin	PEDIATRICS AND HUMAN DEVELOPMENT	REPURPOSE OPEN DATA TO DISCOVER THERAPEUTICS FOR UNDERSTUDIED DISEASES
209	\$50,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Karna, Padmani	PEDIATRICS AND HUMAN DEVELOPMENT	VT OXFORD NETWORK PROJECT
210	\$12,000	SANOFI PHARMACEUTICAL	Kulkarni, Roshni	PEDIATRICS AND HUMAN DEVELOPMENT	LTS16294: A PHASE 3 OPEN-LABEL, MULTICENTER STUDY OF THE LONG-TERM SAFETY AND EFFICACY OF IV RFVIIIIC-VWF-XTEN; BIVV001 IN PREVIOUSLY TREATED PATIENTS WITH SEVERE HEMOPHILIA A
211	\$143,961	SPECTRUM HEALTH - MSU ALLIANCE CORP	Li, Xiaopeng	PEDIATRICS AND HUMAN DEVELOPMENT	PILOT STUDIES FOR FIBROSING LUNG DISEASE THERAPEUTICS CENTER OF EXCELLENCE
212	\$18,816	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Sigal, Yakov	PEDIATRICS AND HUMAN DEVELOPMENT	PEDIATRIC EPILEPSY ACCESS PROJECT
213	\$87,196	NATIONAL CANCER INST	Vaughan, Robert	PEDIATRICS AND HUMAN DEVELOPMENT	CHARACTERIZING GENETIC MODIFIERS IN TUMOR BURDEN OF TUBEROUS SCLEROSIS COMPLEX
214	\$421,254	NATIONAL INST OF HEALTH	Mahmoudi, Morteza	RADIOLOGY HUMAN MEDICINE	A NANOSTRUCTURED SKIN PATCH TO HEAL CHRONIC WOUNDS

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215	\$775,801	NATIONAL CANCER INST	Moore, Anna	RADIOLOGY HUMAN MEDICINE	THERAPY FOR METASTATIC BREAST CANCER BASED ON MICRO RNA SILENCING
216	\$235,035	NATIONAL CANCER INST	Moore, Anna	RADIOLOGY HUMAN MEDICINE	NOVEL PROSTATE CANCER THERAPY BASED ON M-ACONITASE INHIBITION
217	\$6,721,226	NATIONAL INST OF HEALTH	Moore, Anna	RADIOLOGY HUMAN MEDICINE	LARGE ANIMAL FACILITY FOR IMAGING AND IMAGE-GUIDED THERAPIES AT MSU
218	\$598,928	NATIONAL INST OF HEALTH	Sempere, Lorenzo	RADIOLOGY HUMAN MEDICINE	IMAGE-GUIDED INTRADUCTAL ABLATIVE PROCEDURE FOR PRIMARY PREVENTION OF BREAST CANCER
219	\$159,867	VAN BUREN CASS DISTRICT HEALTH DEPT	Ilardo, Joan	THE INSTITUTE FOR HEALTH POLICY	AGING HEALTH EQUITY AND POLICY PLANNING PROJECT
220	\$399,900	UNIVERSITY OF MICHIGAN	Kanaan, Nicholas	TRANSLATIONAL NEUROSCIENCE	MICHIGAN ALZHEIMER'S DISEASE RESEARCH CENTER
221	\$12,520	BRIGHT MINDS BIOSCIENCES	Morgan, David	TRANSLATIONAL NEUROSCIENCE	EFFECTS OF BMB TEST AGENT ON BEHAVIOR IN AMYLOID MICE
COLLEGE OF MUSIC					
222	\$15,000	PNC FOUNDATION	Demott, Jaime	COMMUNITY MUSIC SCHOOL	EARLY MUSIC, EARLY LEARNING
COLLEGE OF NATURAL SCIENCE					
223	\$339,628	NATIONAL INST OF HEALTH	Feig, Michael	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MODELING AND DYNAMICS OF BIOMOLECULES ON CELLULAR SCALES
224	\$293,835	NATIONAL SCIENCE FOUNDATION	Kroos, Lee	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	MECHANISMS DRIVING EMERGENT BEHAVIORS DURING MYXOCOCCUS XANTHUS DEVELOPMENT
225	\$274,461	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
226	\$109,683	YAKULT HONSHA CO LTD	Quinn, Robert	BIOCHEMISTRY MOLECULAR BIOLOGY CNS	UNDERSTANDING THE ROLE OF MICROBIALLY-CONJUGATED BILE ACIDS IN THE DEVELOPING HUMAN GUT
227	\$277,006	NATIONAL INST OF HEALTH	Huang, Xuefei	CHEMISTRY	ENABLING SYNTHESIS AND BIOLOGICAL STUDIES OF HOMOGENEOUS HEPARAN SULFATE AND CHONDROITIN SULFATE GLYCO-POLYPEPTIDES AND PROTEOGLYCANS
228	\$333,536	NATIONAL INST OF HEALTH	Sun, Liangliang	CHEMISTRY	QUANTITATIVE TOP-DOWN PROTEOMICS OF HUMAN COLORECTAL CANCER CELLS AND TUMORS
229	\$399,398	NATIONAL SCIENCE FOUNDATION	Swain, Greg	CHEMISTRY	REU SITE: CROSS DISCIPLINARY TRAINING IN SUSTAINABLE CHEMISTRY AND CHEMICAL PROCESSES

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230	\$111,529	NATIONAL SCIENCE FOUNDATION	Appelo, Daniel	COMPUTATIONAL MATH SCI AND ENGR CNS	NUMERICAL METHODS FOR WAVE EQUATIONS IN TIME AND FREQUENCY DOMAIN
231	\$13,031	NATIONAL RESEARCH COUNCIL CANADA	Hirn, Matthew	COMPUTATIONAL MATH SCI AND ENGR CNS	GENERATIVE MODELS FOR THE INTEGRATED PHOTONIC COMPONENTS
232	\$95,977	NATIONAL SCIENCE FOUNDATION	Munch, Elizabeth	COMPUTATIONAL MATH SCI AND ENGR CNS	CAREER: REEB GRAPH LEARNING: CLASSIFICATION, CLUSTERING, AND EMBEDDING OF GRAPHICAL SIGNATURES
233	\$220,800	WATTTIME	Basso, Bruno	EARTH AND ENVIRONMENTAL SCIENCES	ESTIMATING COUNTRY-LEVEL DIRECT N2O EMISSIONS FROM MANAGED AGRICULTURAL SOILS (PHASE 2)
234	\$70,513	NATIONAL SCIENCE FOUNDATION	Dorfman, Susannah	EARTH AND ENVIRONMENTAL SCIENCES	CAREER: EXPERIMENTAL CONSTRAINTS ON CARBON-IRON REDOX INTERACTION IN EARTH'S DEEP LOWER MANTLE
235	\$53,600	US GEOLOGICAL SURVEY	Elliott, Julie	EARTH AND ENVIRONMENTAL SCIENCES	IPA AGREEMENT WITH US GEOLOGICAL SURVEY
236	\$16,988	AIR FORCE RESEARCH LABORATORY	Mackey, Kevin	EARTH AND ENVIRONMENTAL SCIENCES	GROUND TRUTH CHARACTERIZATION AND SEISMOLOGICAL STUDIES OF NORTHERN ASIA
237	\$212,528	CALIFORNIA DEPT OF WATER RESOURCES	Meek, Mariah	INTEGRATIVE BIOLOGY	UNDERSTANDING THE INTERACTIONS BETWEEN FLOODPLAIN HABITAT USE AND LIFE HISTORY DIVERSITY IN CENTRAL VALLEY CHINOOK SALMON
238	\$72,441	YUBA WATER AGENCY	Meek, Mariah	INTEGRATIVE BIOLOGY	UNDERSTANDING THE GENETIC BASIS FOR RUN TIMING AND UPSTREAM PASSAGE IN THE YUBA RIVER
239	\$152,267	STATE OF CALIFORNIA	Meek, Mariah	INTEGRATIVE BIOLOGY	ESTIMATING JUVENILE PRODUCTION OF SPRING CHINOOK SALMON LEAVING THE DELTA
240	\$398,004	NATIONAL SCIENCE FOUNDATION	Evans, Sarah	KELLOGG BIOLOGICAL STATION NAT SCI	REU SITE: UNDERSTANDING BIOLOGICAL RESPONSES TO GLOBAL CHANGE IN A FIELD STATION COMMUNITY
241	\$50,000	WILBURFORCE FOUNDATION	Haddad, Nicholas	KELLOGG BIOLOGICAL STATION NAT SCI	VISION FOR CONSERVATION CORRIDOR, 2022-2023
242	\$937,500	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	DiRita, Victor	MICROBIOLOGY MOLECULAR GENETICS CNS	MSU-MI-SAPPHIRE GENOMIC SURVEILLANCE PROPOSAL

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243	\$907,449	NATIONAL INST OF HEALTH	O'Halloran, Thomas	MICROBIOLOGY MOLECULAR GENETICS CNS	RESOURCE FOR QUANTITATIVE ELEMENTAL MAPPING FOR THE LIFE SCIENCES
244	\$446,531	NATIONAL INST OF HEALTH	O'Halloran, Thomas	MICROBIOLOGY MOLECULAR GENETICS CNS	REGULATORY ROLES OF ZINC FLUXES IN METALLOPROTEIN OCCUPANCY AND CELL CYCLE PROGRESSION
245	\$11,694	WASHINGTON STATE UNIV	Reguera, Gemma	MICROBIOLOGY MOLECULAR GENETICS CNS	PLANNING GRANT: ENGINEERING RESEARCH CENTER FOR ELECTROSYMBIOTIC ENGINEERING, DESIGN, AND TECHNOLOGY (CEED-TECH)
246	\$237,789	WRIGHT BROTHERS INST	Shade, Ashley	MICROBIOLOGY MOLECULAR GENETICS CNS	MICROBIOME ASSESSMENT OF SOILS DURING BIOCEMENTATION FOR ENABLING AGILE AIRFIELD INFRASTRUCTURE
247	\$578,706	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY MOLECULAR GENETICS CNS	THE CONTRIBUTION OF NOVEL CYTIDINE DEAMINASE REGULATORY SYSTEMS TO BACTERIAL EVOLUTION
248	\$472,872	NATIONAL INST OF HEALTH	Waters, Christopher	MICROBIOLOGY MOLECULAR GENETICS CNS	EXPLORING CYCLIC DI-NUCLEOTIDE SIGNALING ACROSS THE TREE OF LIFE
249	\$65,691	THE RESEARCH FOUNDATION FOR THE STATE UNIV OF NEW YORK	Brock, Raymond	PHYSICS ASTRONOMY	US ATLAS OPERATIONS: DISCOVERY AND MEASUREMENT AT THE ENERGY FRONTIER
250	\$119,887	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Brown, Edward	PHYSICS ASTRONOMY	THE COMPLEX GEOLOGY OF A NEUTRON STAR'S CRUST
251	\$205,846	UNIVERSITY OF MICHIGAN	Hayden, Daniel	PHYSICS ASTRONOMY	ATLAS GREAT LAKES TIER 2 CENTER
252	\$67,409	NATIONAL SCIENCE FOUNDATION	Lin, Huey-Wen	PHYSICS ASTRONOMY	AGEP SUPPLEMENT TO CAREER: CONSTRAINING PARTON DISTRIBUTION FUNCTIONS FOR NEW-PHYSICS SEARCHES
253	\$396,543	NATIONAL SCIENCE FOUNDATION	Pollanen, Johannes	PHYSICS ASTRONOMY	CAREER: CIRCUIT QUANTUM OPTICS WITH PIEZOELECTRIC SURFACE ACOUSTIC WAVES
254	\$50,000	EEROQ INC	Pollanen, Johannes	PHYSICS ASTRONOMY	PHASE 3: ON-CHIP CHARGE SENSOR FOR SINGLE ELECTRON DETECTION
255	\$243,273	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Rodriguez, Joseph	PHYSICS ASTRONOMY	THE K2 & TESS SYNERGY: UNITING NASA'S PLANET HUNTERS

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256	\$22,000	LAWRENCE BERKELEY NATIONAL LABORATORY	Whitehorn, Nathan	PHYSICS ASTRONOMY	CMB-S4 WBS 1.08 DATA ACQUISITION
257	\$29,980	CHANDRA SCIENCE CENTER	Zepf, Stephen	PHYSICS ASTRONOMY	THE LMXB POPULATION OF NGC 3998: TESTING FOR AN EXTREME IMF
258	\$363,363	NATIONAL INST OF HEALTH	Gulbransen, Brian	PHYSIOLOGY NATURAL SCIENCE	ENTERIC GLIA AND VISCERAL PAIN
259	\$110,467	UNIVERSITE LIBRE DE BRUXELLES	Laumet, Geoffroy	PHYSIOLOGY NATURAL SCIENCE	INVESTIGATE THE IMPACT OF PRDM12 GENETIC DELETION ON NEUROPATHIC PAIN
260	\$368,737	NATIONAL INST OF HEALTH	Leininger, Gina	PHYSIOLOGY NATURAL SCIENCE	ROLE OF LATERAL HYPOTHALAMIC NEUROTENSIN NEURONS IN ENERGY BALANCE
261	\$200,000	NATIONAL INST OF HEALTH	Subramanian, Hariharan	PHYSIOLOGY NATURAL SCIENCE	THE NHERF1-STIM1-ORAI1 AXIS REGULATES MRGPRX2 RESPONSES IN MAST CELLS
262	\$403,317	NATIONAL INST OF HEALTH	Wang, Hongbing	PHYSIOLOGY NATURAL SCIENCE	NONCONVENTIONAL ROLE OF ADCY IN GQ-MEDIATED NEURONAL SIGNALING AND NEUROPLASTICITY
263	\$8,059	NATIONAL SCIENCE FOUNDATION	Brudvig, Lars	PLANT BIOLOGY CNS	RESOLVING DRIVERS OF VARIATION IN GRASSLAND COMMUNITY ASSEMBLY AND RESTORATION
264	\$10,728	NATIONAL SCIENCE FOUNDATION	Farre, Eva	PLANT BIOLOGY CNS	MCA-PGR: CYCLING BELOW-GROUND: CIRCADIAN REGULATION IN WILD AND DOMESTICATED POTATO
265	\$3,750,000	US DEPT OF ENERGY	Benning, Christoph	PLANT RESEARCH LABORATORY NAT SCIENCE	PHOTOSYNTHETIC ENERGY CAPTURE, CONVERSION AND STORAGE: FROM FUNDAMENTAL MECHANISMS TO MODULAR ENGINEERING
266	\$20,000	US DEPT OF ENERGY	Brandizzi, Federica	PLANT RESEARCH LABORATORY NAT SCIENCE	IX CELL WALL RESEARCH CONFERENCE 2022 (IXCWR): CELL WALL RESEARCH FOR NEW FUNDAMENTAL DISCOVERIES AND APPLICATIONS IN PLANT BIOLOGY
267	\$93,271	NATIONAL AERONAUTICS & SPACE ADMINISTRATION	Brandizzi, Federica	PLANT RESEARCH LABORATORY NAT SCIENCE	LIFE BEYOND EARTH: EFFECT OF SPACE FLIGHT ON SEEDS WITH IMPROVED NUTRITIONAL VALUE
268	\$318,855	WAGENINGEN UR	Kramer, David	PLANT RESEARCH LABORATORY NAT SCIENCE	PLANT PHOTOSYNTHESIS RESPONSES TO FLUCTUATING LIGHT
269	\$26,115	ARGONNE NATIONAL LABORATORY	Maiti, Tapabrata	STATISTICS PROBABILITY	ROBUST AND EFFICIENT LEARNING WITH SPARSE BAYESIAN NEURAL NETWORKS
270	\$15,019	ARGONNE NATIONAL LABORATORY	Maiti, Tapabrata	STATISTICS PROBABILITY	INFORMATION-THEORETIC BAYESIAN LEARNING WITH INFORMATION BOTTLENECK AND PROBABILISTIC LATENT DIMENSION ENCODING
COLLEGE OF OSTEOPATHIC MEDICINE					

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271	\$12,000	MEDTRONIC INC	Young, Deborah	COM STATEWIDE CAMPUS SYSTEM	WSU/MSU SINUS AND SKULL BASE DISSECTION COURSE
272	\$15,000	DJO LLC	Dietzel, Douglas	DEPARTMENT OF ORTHOPEDICS COM	POST-PROFESSIONAL ATHLETIC TRAINING RESIDENCY
273	\$7,235	COOLTECH LLC	Charleston, Larry	NEUROLOGY AND OPHTHALMOLOGY COM	A TRANSNASAL EVAPORATIVE COOLING DEVICE FOR ACUTE TREATMENT OF MIGRAINE
274	\$17,426	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
275	\$32,036	AMER HEART ASSOC	Chambers, Laura	PHARMACOLOGY TOXICOLOGY	THE ROLE OF BIOLOGICAL SEX ON CEREBROVASCULAR TRPV4 FUNCTION AND COGNITION IN HYPERTENSION
276	\$99,238	GREAT LAKES FISHERY COMMISSION	Ellsworth, Edmund	PHARMACOLOGY TOXICOLOGY	DESIGN AND SYNTHESSES OF POTENT ANTAGONISTS OF 3KPZS THROUGH MEDICINAL CHEMISTRY OPTIMIZATION
277	\$70,800	UNIVERSITY OF MINNESOTA	Fink, Gregory	PHARMACOLOGY TOXICOLOGY	AFFERENT RENAL NERVES, RENAL INFLAMMATION, AND HYPERTENSION
278	\$313,359	NATIONAL INST OF HEALTH	Liby, Karen	PHARMACOLOGY TOXICOLOGY	NRF2, IMMUNE CELLS AND LUNG CANCER
279	\$391,250	US DEPT OF THE ARMY	Mendes Leal, Ana Sofia	PHARMACOLOGY TOXICOLOGY	NRF2 PATHWAY ACTIVATION IN THE LUNG TUMOR MICROENVIRONMENT MACROPHAGES
280	\$2,695,451	NATIONAL INST OF HEALTH	Watts, Stephanie	PHARMACOLOGY TOXICOLOGY	PERIVASCULAR ADIPOSE TISSUE (PVAT) AS A CENTRAL INTEGRATOR OF VASCULAR HEALTH
281	\$382,667	NATIONAL INST OF HEALTH	Watts, Stephanie	PHARMACOLOGY TOXICOLOGY	5-HT7 RECEPTOR AND BLOOD PRESSURE REGULATION
282	\$566,539	NATIONAL INST OF CHILD HEALTH & HUMAN DEVELOPMENT	Boivin, Michael	PSYCHIATRY OSTEOPATHIC MEDICINE	CULTURE-SPECIFIC NEURODEVELOPMENTAL ASSESSMENT OF HIV-AFFECTED CHILDREN
283	\$39,720	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
COLLEGE OF SOCIAL SCIENCE					
284	\$46,989	SPENCER FOUNDATION	Howard, Heather	ANTHROPOLOGY SOCIAL SCIENCE	SPECIAL EDUCATION IN INDIAN COUNTRY: CHALLENGES AND INSIGHTS FROM APPLYING INDIGENOUS MODELS OF DISABILITY IN SCHOOLS
285	\$75,663	GEORGE MASON UNIV	Holt, Thomas	CRIMINAL JUSTICE	UNDERSTANDING THE ECONOMY AND SOCIAL ORGANIZATION FOR THE UNDERGROUND MARKET FOR CYBERCRIME AS A SERVICE

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286	\$43,612	JOHNS HOPKINS UNIV	Zeoli, April	CRIMINAL JUSTICE	THE ROLL OF PERMIT TO PURCHASE IN THE PRIMARY PREVENTION OF MULTIPLE FORMS OF VIOLENCE
287	\$46,812	NATIONAL SCIENCE FOUNDATION	Barnwal, Prabhat	ECONOMICS	COLLABORATIVE RESEARCH: INFORMAL RISK-SHARING AND PRIVATE INITIATIVE TO MITIGATE LOCAL ENVIRONMENTAL RISKS
288	\$9,000	MICHIGAN BREASTFEEDING NETWORK	Grady, Sue	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	MI BREASTFEEDING NETWORK RESEARCH TO DR. SUE GRADY
289	\$9,910	UNIVERSITY OF WISCONSIN	Schaetzl, Randall	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	STATEMAP 2021: MAPPING AND GEOLOGIC DATA OF PRIORITY AREAS IN WISCONSIN
290	\$172,421	UNIVERSITY OF ILLINOIS	Theuerkauf, Ethan	GEOGRAPHY ENVIRONMENT SPATIAL SCIENCES	SUSTAINABLE NEARSHORE MANAGEMENT SOLUTIONS TO PREVENT CRITICAL HABITAT LOSS AT ILLINOIS BEACH STATE PARK, PHASE 2
291	\$71,782	UNIVERSITY OF MICHIGAN	Andresen, Jeffrey	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	GREAT LAKES INTEGRATED SCIENCE AND ASSESSMENTS (GLISA)
292	\$38,000	AMER COUNCILS FOR INTL EDUCATION	Chen, Jiquan	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	ADVANCING KEY CURRICULUMS OF ECOLOGY AND ENVIRONMENTAL SCIENCES IN RURAL KAZAKHSTAN UNIVERSITIES
293	\$264,674	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
294	\$170,610	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...
295	\$33,983	SOUTH DAKOTA STATE UNIV	Henebry, Geoffrey	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	MAINTENANCE, EVOLUTION, AND VALIDATION OF THE GLOBAL LAND SURFACE PHENOLOGY PRODUCT FROM SUOMI NPP AND JPSS VIIRS OBSERVATIONS
296	\$18,900	UNIVERSITY OF MARYLAND	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	SUPPORT AND MAINTENANCE OF S-NPP AND JPSS VIIRS GLOBAL ACTIVE FIRE AND BURNED AREA EARTH SYSTEM DATA RECORDS

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297	\$18,900	UNIVERSITY OF IDAHO	Roy, David	GLOBAL CHG AND EARTH OBSERVATION CTR FOR	IS THE WORLD BURNING LESS? DISENTANGLING DECADAL TRENDS, INTER-ANNUAL FIRE VARIABILITY AND PRODUCT UNCERTAINTIES, THROUGH HARMONIZATION OF THE NASA MODIS AND VIIRS FIRE PRODUCT RECORD
298	\$259,417	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
299	\$89,203	CACS HEAD START	Linscott, Laurie	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	HEAD START PRESCHOOL SERVICES - EAST LANSING
300	\$78,510	INGHAM INTERMEDIATE SCHOOL DISTRICT	Linscott, Laurie	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	INGHAM GREAT START READINESS PROGRAM
301	\$176,011	MICHIGAN DEPT OF EDUCATION	Linscott, Laurie	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	CHILD CARE STABILIZATION GRANT - EAST LANSING
302	\$101,766	CACS HEAD START	Linscott, Laurie	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	HEAD START PRESCHOOL SERVICES - HASLETT
303	\$122,250	MICHIGAN DEPT OF EDUCATION	Linscott, Laurie	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	CHILD CARE STABILIZATION GRANT - HASLETT
304	\$85,368	UNIVERSITY OF MICHIGAN	Vallotton, Claire	HUMAN DEVELOPMENT AND FAMILY STUDIES CSS	GREAT FIRST 8 INFANT TODDLER CURRICULUM PROJECT
305	\$19,550	JOBS WITH JUSTICE EDUCATION FUND	Tapia Y Van Maldeghem, Maite	HUMAN RESOURCES AND LABOR RELATIONS	UNDERSTANDING WORKER ORGANIZING AT AMAZON FACILITIES.
306	\$14,904	UNIVERSITY OF VIRGINIA	Rehberger, Dean	MATRIX HUM ARTS LETTERS SOC SCI ONLINE	SOCIAL NETWORKS AND ARCHIVAL CONTEXT COOPERATIVE (SNAC): PILOT PHASE III
307	\$65,000	RTI INTL	Campbell, Rebecca	PSYCHOLOGY SOCIAL SCIENCE	FY19 NATIONAL SEXUAL ASSAULT KIT INITIATIVE TRAINING AND TECHNICAL ASSISTANCE (TTA)

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308	\$195,771	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Gregory, Katie	PSYCHOLOGY SOCIAL SCIENCE	CAPACITY BUILDING TRAINING PROJECT
309	\$46,616	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Gregory, Katie	PSYCHOLOGY SOCIAL SCIENCE	TRAINING NEEDS ASSESSMENT FOR THE VICTIM ADVOCACY NETWORK
310	\$40,000	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Gregory, Katie	PSYCHOLOGY SOCIAL SCIENCE	HUMAN TRAFFICKING TRAINING PROJECT
311	\$43,327	FLORIDA STATE UNIV	Miller, Robin	PSYCHOLOGY SOCIAL SCIENCE	SCALE IT UP: EFFECTIVENESS IMPLEMENTATION RESEARCH TO ENHANCE HIV-RELATED SELF-MANAGEMENT AMONG ADOLESCENTS AND YOUNG ADULTS
312	\$33,377	NATIONAL INST OF HEALTH	Shewark, Elizabeth	PSYCHOLOGY SOCIAL SCIENCE	NEIGHBORHOOD, GENOTYPE, AND DEVELOPMENT
313	\$172,496	INGHAM COUNTY	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	INGHAM COUNTY ADOLESCENT DIVERSION PROJECT
314	\$75,000	WASHINGTON STATE COALITION AGAINST DOMESTIC VIOLENCE	Sullivan, Cris	PSYCHOLOGY SOCIAL SCIENCE	DVHF 24-MONTH FOLLOWUP
315	\$416,312	NATIONAL INST OF HEALTH	Thakkar, Katharine	PSYCHOLOGY SOCIAL SCIENCE	VISUAL PERCEPTION AS A WINDOW ONTO PREDICTION ANOMALIES IN SCHIZOPHRENIA
316	\$393,605	NATIONAL INST OF HEALTH	Veenema, Alexa	PSYCHOLOGY SOCIAL SCIENCE	OXYTOCIN NEURAL CIRCUITRY INVOLVEMENT IN JUVENILE SOCIAL PLAY
317	\$60,000	UNIVERSITY OF WISCONSIN MADISON	Nevarez Martinez, Deyanira	SCHOOL OF PLANNING DES CONSTRUCTION CSS	EMERGING POVERTY SCHOLARS FELLOWSHIP
318	\$1,134,406	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Brock, Michele	SOCIAL WORK	KINSHIP SUPPORT PROGRAM
319	\$26,948	UNIVERSITY OF WISCONSIN MILWAUKEE	Kennedy, Angie	SOCIAL WORK	USING THE LIFE HISTORY CALENDAR TO EXAMINE YOUNG TRANSGENDER WOMEN'S TRAJECTORIES OF VIOLENCE, MENTAL HEALTH, AND PROTECTIVE PROCESSES
320	\$58,153	SPAULDING FOR CHILDREN	Klein, Sacha	SOCIAL WORK	KINSHIP NETWORK DEVELOPMENT, EMPOWERMENT AND RESILIENCE PLUS CONNECTION AND RELATIONSHIP ENHANCEMENT THROUGH SHARED PARENTING – KINDER-CARES
321	\$55,000	BLUE CROSS BLUE SHIELD OF MICHIGAN FOUNDATION	McCauley, Heather	SOCIAL WORK	EVALUATION OF THE PUBLIC WILL CAMPAIGN TO END CHILD SEXUAL ABUSE

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ASC PROVOST FOR UNDERGRADUATE EDUCATION					
322	\$275,000	MICHIGAN DEPT OF EDUCATION	Lack, Bruce	MIGRANT STUDENT SERVICES	MSU ID&R CENTER - MIGRANT EDUCATION PROGRAM IDENTIFICATION, RECRUITMENT & REPORTING CENTERS
COLLEGE OF VETERINARY MEDICINE					
323	\$180,000	AGRICULTURE & FOOD RESEARCH INITIATIVE	Contreras, Andres	LARGE ANIMAL CLINICAL SCIENCES	ISOPROSTANES MITIGATE OXIDATIVE STRESS IN BOVINE VASCULAR ENDOTHELIUM DURING INFLAMMATION
324	\$93,909	NATIONAL INST OF HEALTH	Ewart, Susan	LARGE ANIMAL CLINICAL SCIENCES	INCREASING DIVERSITY IN EXPERIENTIAL RESEARCH EDUCATION AT MICHIGAN STATE UNIVERSITY
325	\$100,267	UNIVERSITY OF MEMPHIS	Ewart, Susan	LARGE ANIMAL CLINICAL SCIENCES	DOES EPIGENETIC METHYLATION EXPLAIN THE GENDER-SWITCH IN ADOLESCENT ASTHMA?
326	\$145,844	US FISH & WILDLIFE SERVICE	Gorgoglione, Bartolomeo	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	IMPROVE PKD DIAGNOSTICS AND ASSESS THE IMPACT OF TETRACAPSULOIDES BRYOSALMONAE INFECTION ON NORTH AMERICAN SALMONIDS
327	\$374,901	NATIONAL INST OF HEALTH	Luyendyk, James	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	NOVEL DETERMINANTS OF FIBRINOGEN PRO-REPAIR ACTIVITY IN ACETAMINOPHEN-INDUCED LIVER TOXICITY
328	\$246,461	MICHIGAN DEPT OF NATURAL RESOURCES	Sreevatsan, Srinand	PATHOBIOLOGY DIAGNOSTIC INVESTIGAT CVM	A MULTICENTER VALIDATION OF RT-QUIC ASSAY FOR SENSITIVE DETECTION OF CHRONIC WASTING DISEASE
329	\$1,517,749	NATIONAL INST OF HEALTH	Petersen-Jones, Simon	SMALL ANIMAL CLINICAL SCIENCES	TRANSLATIONAL GENE THERAPY FOR CNGB1 RETINITIS PIGMENTOSA
330	\$203,409	ANIMAL & PLANT HEALTH INSPECTION SERVICE	Bolin, Steven	VETERINARY DIAGNOSTIC LABORATORY	WEB-BASED SAMPLE SUBMISSION FOR FOREIGN ANIMAL DISEASE INVESTIGATIONS
331	\$44,491	FOOD & DRUG ADMINISTRATION	Dodd, Kimberly	VETERINARY DIAGNOSTIC LABORATORY	MICHIGAN STATE UNIVERSITY VDL VET-LIRN 2021
332	\$7,878	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Dodd, Kimberly	VETERINARY DIAGNOSTIC LABORATORY	BIOTERRORISM PREPAREDNESS - DIAGNOSTIC CTR FOR POPULATION AND ANIMAL HEALTH
333	\$125,013	STATE OF MICHIGAN	Mejia Abreu, Hilda	VETERINARY MEDICINE DEAN	DEVELOPING MICHIGAN'S PIPELINE TO VETERINARY MEDICAL EDUCATION
334	\$106,456	NATIONAL INST OF HEALTH	Yuzbasiyan-Gurkan, Vilma	VETERINARY MEDICINE DEAN	SHORT-TERM BIOMEDICAL RESEARCH TRAINING PROGRAM FOR VETERINARY STUDENTS
335	\$31,500	NATIONAL INST OF HEALTH	Yuzbasiyan-Gurkan, Vilma	VETERINARY MEDICINE DEAN	NIH-MERIAL VETERINARY SCHOLARS SYMPOSIUM: VETERINARIANS IN BIOMEDICAL RESEARCH: BUILDING CAPACITY

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FACILITY FOR RARE ISOTOPE BEAMS					
336	\$8,000,000	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
337	\$190,000	BOEING CO	Knudsen, Peter	FACILITY FOR RARE ISOTOPE BEAMS	SECOND BAYONET STUDY
338	\$190,172	FERMI NATIONAL ACCELERATOR LABORATORY	Lund, Steven	FACILITY FOR RARE ISOTOPE BEAMS	US PARTICLE ACCELERATOR SCHOOL (USPAS) DIRECTOR
339	\$358,296	US DEPT OF ENERGY	Mantica, Paul	FACILITY FOR RARE ISOTOPE BEAMS	TECHNICAL ADVISOR TO THE DOE OFFICE OF NUCLEAR PHYSICS - MANTICA IPA
340	\$62,723	FERMI NATIONAL ACCELERATOR LABORATORY	Ostroumov, Peter	FACILITY FOR RARE ISOTOPE BEAMS	FERMILAB ACCELERATOR PHD PROGRAM FOR KELLEN MCGEE
341	\$710,000	US DEPT OF ENERGY	York, Richard	FACILITY FOR RARE ISOTOPE BEAMS	HIGH RIGIDITY SPECTROMETER PROJECT – FY20 TO FY22
342	\$135,000	US DEPT OF ENERGY	Danielewicz, Pawel	NAT'L SUPERCONDUCTING CYCLOTRON LAB	SYMMETRY ENERGY FROM NUCLEAR REACTIONS
343	\$360,000	US DEPT OF ENERGY	Nazarewicz, Witold	NAT'L SUPERCONDUCTING CYCLOTRON LAB	THEORETICAL NUCLEAR STRUCTURE
344	\$22,775	LAWRENCE LIVERMORE NATIONAL LABORATORY	Nunes, Filomena	NAT'L SUPERCONDUCTING CYCLOTRON LAB	FRIB THEORY FELLOW AT LAWRENCE LIVERMORE NATIONAL LABORATORY - HEBBORN
PROVOST AND ACADEMIC AFFAIRS					
345	\$5,500	ARTS COUNCIL OF GREATER LANSING	Word, Michelle	ART MUSEUM	2021 INGHAM COUNTY HOTEL/MOTEL GRANT
ASC PROV FOR UNIV OUTREACH ENGAGEMENT					
346	\$330,614	DEPT OF LABOR & ECONOMIC OPPORTUNITY	Anthony, Stephanie	ADMIN SUPPORT MLK INITIATIVE	MI GEAR UP
347	\$90,000	MICHIGAN DEPT OF EDUCATION	Wu, Jamie	COMMUNITY EVALUATION AND RSCH COLLABRTVE	THE STUDY OF STATE FUNDED PRESCHOOL PROGRAM FOR THREE-YEAR-OLD CHILDREN
INTERNATIONAL STUDIES AND PROGRAMS					

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348	\$20,000	SAMUEL RUBIN FOUNDATION	Monson, Jamie	AFRICAN STUDIES CENTER	AFRICAN ACTIVIST ARCHIVE PROJECT
349	\$214,554	INTL RESEARCH & EXCHANGES BOARD	Hassan, Salah	INTERNATIONAL STUDIES AND PROGRAMS DEAN	MANDELA WASHINGTON FELLOWSHIP FOR YOUNG AFRICAN LEADERS
350	\$228,461	TEMPLETON RELIGION TRUST	Khalil, Mohammad	INTERNATIONAL STUDIES AND PROGRAMS DEAN	SCIENTIFIC, ART AND FAITH: ARCHITECTURAL HERITAGE AND ISLAM
MSU AGBIORESEARCH					
351	\$1,539,077	NOBLE RESEARCH INST LLC	Rowntree, Jason	ANIMAL SCIENCE DEPARTMENT MABR	METRICS, MANAGEMENT, AND MONITORING - AN INVESTIGATION IN RANGELAND AND PASTURE SOIL HEALTH AND THEIR DRIVERS
352	\$3,000,000	MICHIGAN DEPT OF AGRICULTURE & RURAL DEVELOPMENT	Smith, George	MSU AGBIORESEARCH DIR OFC	MICHIGAN ALLIANCE FOR ANIMAL AGRICULTURE - 2022
353	\$17,531	MICHIGAN WHEAT PROGRAM	Pennington, Dennis	PLANT SOIL AND MICROBIAL SCIENCES	FUNDS FROM MICHIGAN WHEAT PROGRAM TO COVER SALARY AND OPERATING EXPENSES FOR MSU WHEAT BREEDER FROM 10/01/21 - 12/31/21
354	\$25,000	W K KELLOGG CO	Asher, Aaron	WATER RESEARCH INSTITUTE MABR	MAPLE RIVER FISH HABITAT IMPROVEMENT - KELLOGG'S CONTRIBUTION
MICHIGAN STATE UNIVERSITY EXTENSION					
355	\$20,172	MICHIGAN CRAFT BEVERAGE COUNCIL	Nasrollahiazar, Esmail	EXTENSION AGRICULTURE AND AGRIBUSINESS	MONITORING STATEWIDE GRAPEVINE COLD HARDINESS EVALUATIONS IN ORDER TO DEVELOP THE MICHIGAN GRAPEVINE COLD HARDINESS MODEL.
356	\$21,746	MICHIGAN CRAFT BEVERAGE COUNCIL	Nasrollahiazar, Esmail	EXTENSION AGRICULTURE AND AGRIBUSINESS	MEETING MICHIGAN GRAPE AND WINE INDUSTRY'S EDUCATIONAL NEEDS
357	\$25,877	MICHIGAN CRAFT BEVERAGE COUNCIL	Wilke, Brook	EXTENSION AGRICULTURE AND AGRIBUSINESS	EVALUATING TERROIR OF RYE WHISKEY IN MICHIGAN – GENOTYPE X
358	\$22,591	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	MICHIGAN 4H FOUNDATION COUNTY PROGRAMS
359	\$58,787	MICHIGAN 4H FOUNDATION	DeDecker, Jacob	EXTENSION CHILDREN AND YOUTH	MICHIGAN 4H FOUNDATION COUNTY PROGRAMS

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360	\$11,725	BARRY COUNTY UNITED WAY	Kilpatrick, Glenda	EXTENSION CHILDREN AND YOUTH	BARRY COUNTY MSU EXTENSION 4-H PROGRAM
361	\$18,028	MICHIGAN COMMUNITY SERVICE COMMISSION	Schulz, Jodi	EXTENSION CHILDREN AND YOUTH	MICHIGAN'S AMERICORPS FORMULA CONTINUATION 20-21 FUNDING
362	\$1,166,667	MICHIGAN DEPT OF HEALTH & HUMAN SERVICES	Tobe, Erica	EXTENSION CHILDREN AND YOUTH	FY21 IMPROVING AND EXPANDING EDUCATIONAL MESSAGING AROUND VACCINATION WITH MICHIGAN'S YOUTH AND FAMILIES THROUGH TRUSTED MESSENGERS AND MSU EXTENSION NETWORKS
363	\$6,700	KANSAS STATE UNIV	Wisnewski, Diane	EXTENSION CHILDREN AND YOUTH	4-H MILITARY PARTNERSHIP AND OUTREACH SUPPORT DAF
364	\$10,736	TRINITY UNIVERSITY	Carpenter, Craig	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	INHERITED INEQUITY? USING ADMINISTRATIVE DATA TO MEASURE THE INTERGENERATIONAL AND INTERACTIVE IMPACTS OF HOUSING AND EDUCATION
365	\$45,551	MICHIGAN DEPT OF NATURAL RESOURCES	Cohen, Joshua	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022-TITLE 6-AUTOMATED RARE SPECIES REVIEW APPLICA 2022
366	\$261,649	MICHIGAN DEPT OF NATURAL RESOURCES	Cohen, Joshua	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 2 - ML DNR WLD INTEGRATED INVENTORY 2022
367	\$40,000	MICHIGAN CRAFT BEVERAGE COUNCIL	Dedecker, James	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	ON-GOING INVESTIGATION OF WINTER HARDINESS TO ADVANCE WINTER MALTING BARLEY AS A CLIMATE ADAPTATION STRATEGY IN MICHIGAN
368	\$21,000	MICHIGAN DEPT OF NATURAL RESOURCES	Higman, Phyllis	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	GNA BOTANICAL SURVEY DATA COORDINATION AND MANAGEMENT
369	\$19,952	IOWA STATE UNIV	Jescovitch, Lauren	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	DEVELOPMENT OF CONSUMER EDUCATIONAL MATERIALS ON SEAFOOD AND AQUACULTURE
370	\$10,011	UNIVERSITY OF WISCONSIN MADISON	Jescovitch, Lauren	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	GREAT LAKES FUTURE FISHERS INITIATIVE: DEVELOPING A STATE AND TRIBAL GREAT LAKES' COMMERCIAL FISHING AND SEAFOOD PROCESSING APPRENTICESHIP PROGRAM

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371	\$351,899	MICHIGAN DEPT OF NATURAL RESOURCES	Klatt, Brian	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	CONSULTATION, ADMINISTRATION & DATABASE FOR DNR FY22
372	\$27,905	MICHIGAN DEPT OF NATURAL RESOURCES	Klatt, Brian	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 19 - AMERICORPS SUPPORT - 2022
373	\$24,483	MICHIGAN DEPT OF NATURAL RESOURCES	Lee, Yu Man	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022-TITLE 7-BLANDING TURTLE IN LAKE ERIE WATERSHED2022
374	\$92,498	MICHIGAN DEPT OF NATURAL RESOURCES	Lee, Yu Man	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	UPPER MIDWEST TURTLE CONSERVATION - CSWG PHASE 3
375	\$48,138	MICHIGAN DEPT OF NATURAL RESOURCES	Lincoln, Jesse	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 3 - LAND MANAGEMENT CONSULTATIONS AND SURVEYS 2022
376	\$130,360	AMERICANA FOUNDATION	Mathis, Michael	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	AMERICANA - TOLLGATE MSU - 2022
377	\$26,160	MICHIGAN DEPT OF NATURAL RESOURCES	Monfils, Michael	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 18 - SECRETIVE MARSH BIRD SURVEY OF BLIND SUCKER FLOODING 2022
378	\$89,613	MICHIGAN DEPT OF NATURAL RESOURCES	Rowe, Logan	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MNFI 2022 - TITLE 12 - POLLINATOR CONSERVATION LANDSCAPES
379	\$299,437	UNIVERSITY OF MICHIGAN	Triezenberg, Heather	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	MICHIGAN SEA GRANT OMNIBUS FY 2022-2023
380	\$38,000	FREMONT AREA COMMUNITY FOUNDATION	Woods, Mollie	EXTENSION COMMUNITY FOOD AND ENVIRONMENT	THE MSU PRODUCT CENTER AND FARM ACCELERATOR

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381	\$24,982	MICHIGAN DEPT OF MILITARY & VETERANS AFFAIRS	Lee, Yu Man	NATURAL FEATURES INVENTORY MSUE	CAMP GRAYLING SURVEYS
382	\$48,000	MICHIGAN SUGARBEET ADVANCEMENT	Bublitz, Daniel	PLANT SOIL AND MICROBIAL SCIENCES	SALARY AND FRINGE FOR RG072614 BUBL
RESEARCH AND INNOVATION					
383	\$66,600	SOUTH DAKOTA STATE UNIV	Sharma, Dhruv	CTR FOR STATISTICAL TRAINING CONSULTING	A COST-BENEFIT ANALYSIS OF EFNEP UTILIZING BIOMARKERS OF CHRONIC DISEASE RISK
384	\$17,800	SOCIETY OF TOXICOLOGY	Atchison, William	INSTITUTE FOR INTEGRATIVE TOXICOLOGY	2021 SUMMER UNDERGRADUATE RESEARCH PROGRAM - SOCIETY OF TOXICOLOGY
385	\$15,000	HEALTH CARE LOGISTICS INC	Hatfield, John	OFFICE OF RESEARCH AND INNOVATION	AXIA MEMBERSHIPS
386	\$30,000	FRESENIUS KABI USA	Hatfield, John	OFFICE OF RESEARCH AND INNOVATION	AXIA MEMBERSHIPS
VICE PRES FOR STUDENT AFFAIRS SERVICES					
387	\$376,583	US DEPT OF EDUCATION	Shaw, Allyn	STUDENT AFFAIRS SERVICES VICE PRES	CHILD CARE ACCESS MEANS PARENTS IN SCHOOLS (CCAMPIS) MSU SPARTAN KIDS CHILD CARE SUPPORT PROGRAM
GENERAL UNIVERSITY ITEMS					
388	\$12,500	INGHAM COUNTY	Rosen, Holly	DOMESTIC SHELTER	SHELTER, ADVOCACY AND SUPPORT FOR DOMESTIC VIOLENCE SURVIVORS
389	\$12,321	CHILDRENS HOSPITAL OF MICHIGAN FOUNDATION	Martell, Dennis	MSU STUDENT HEALTH CENTER	IMPACTING OUTCOMES FOR STUDENTS IN RECOVERY
MICHIGAN STATE UNIVERSITY COLLEGE OF LAW					
390	\$70,000	CASEY FAMILY PROGRAMS	Fort, Kathryn	COLLEGE OF LAW DEAN	CASEY FAMILY PROGRAMS CONTRACT SERVICE AGREEMENT
VARIOUS					
391	\$138,695	VARIOUS	Various	Various	51 CONSOLIDATED GRANTS WITH INDIVIDUAL VALUES OF \$5000 OR LESS. DETAILS ON FILE IN CONTRACT & GRANT ADMINISTRATION

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	Amount	Sponsor	Principal Investigator/Director	Unit	Project Title
	\$84,298,210	Total April 2022 Board			

CONSIGNMENT/NON-CASH GIFTS
BOARD OF TRUSTEES
April 22, 2022

GIFT NO.	GIFT	DONOR	DEPARTMENT NAME	ESTIMATED VALUE	PURPOSE OR USE
1	Various iPads, MacBooks & accessories	Apple Inc.	MSU – Michigan 4H Southeast, Michigan	\$130,723.65	Supporting Michigan 4H thru Apple Community Education Initiatives Program.
2	<p><u>Sculptures</u></p> <p>Tony DeBlasi, <i>Take the “A” Train</i></p> <p>Robert Weil, <i>Untitled</i></p> <p>Mel Leiserowitz, <i>Poppies and Plants</i></p> <p><u>Paintings</u></p> <p>Angelo Ippolito, <i>Michigan Farm Scene 1</i></p> <p>Angelo Ippolito, <i>Michigan Farm Scene 2</i></p> <p>Irv Taran, <i>Untitled (Pink, Blue)</i></p> <p>Irv Taran, <i>Untitled (Red, Blue & Green)</i></p> <p>Irv Taran, <i>Judy’s Boy & Sebago</i></p> <p>Jens Plum, <i>Still Life (Table & Chair)</i></p> <p>Jens Plum, <i>Still Lift (Table & Flowers)</i></p>	Drs. Clifton & Dolores Wharton	Eli & Edythe Broad Art Museum	\$60,500.00	Donation to Eli & Edythe Broad Art Museum

3	GE Laptop style Ultrasound unit with stand and transducer	Scott Carlson	College of Osteopathic Medicine	\$7,150.00	Teaching PA Medical Students
4-29	Various	Various	Various	\$14,599.58	26 Consolidated non-cash gifts for individual values less than \$5,000 Details on file in the Contract & Grant Administration office, Hannah Administration Bldg. 426 Auditorium Road, Room 2, East Lansing, MI 48824
			Total	\$212,973.23	