

AWARD REPORT

September 2018

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Sreekala Bajwa	AES & EXT	AES Agricultural & Biosystems Engineering	John Nowatzki Xin Sun	\$872,093.00	Advanced UAS/UAV Application and Data Management Systems and Bioinformatics Tools Integrate GxExM Data for Precision Agricultural Management	USDA Agricultural Research Service
Paulo Flores	AES & EXT	AES Carrington Research/Extension Center		\$24,799.00	Mapping Leafy Spurge at Camp Grafton South using Small UASs	ND National Guard
Michael Ostlie	AES & EXT	AES Carrington Research/Extension Center		\$6,048.00	Effect of Plant Impact Foliar Applications in Spring Wheat at Booting under High Temperature and on Drought Stress	Plant Impact
Michael Ostlie	AES & EXT	AES Carrington Research/Extension Center		\$2,016.00	Fortalis® in Dry Bean	PI BioScience Limited
Douglas Landblom	AES & EXT	AES Dickinson Research/Extension Center		\$8,860.00	Healthy Soil and Microbial Processes Workshop	Dakota Prairies RC&D
Michael Ostlie	AES & EXT	AES Langdon Research/Extension Center	Bryan Hanson	\$8,400.00	Evaluate HF152 Coded Compounds for Biological Activity in Agricultural or Ornamental Crops	AMVAC Chemical Corporation
Thomas Stefaniak	AES & EXT	AES North Central Research/Extension Center		\$100,980.00	Pea and Lentil Breeding	Northern Pulse Growers Association
Andrew Friskop	AES & EXT	AES Plant Pathology	Robert Brueggeman Venkata Chapara Audrey Kalil Joel Ransom Blaine Schatz Tyler Tjelde	\$63,624.00	Integrated Management Strategies and Fungicide Testing for FHB and DON in Small Grains in ND	USDA Agricultural Research Service
Neil Gudmestad	AES & EXT	AES Plant Pathology	Guiping Yan	\$7,310.00	Exploring Tobacco Rattle Virus Insensitivity Differences Between North Dakota and Washington State	USDA Agricultural Research Service
Neil Gudmestad	AES & EXT	AES Plant Pathology		\$81,019.00	Safeguarding the US Seed Potato Industry Against Emerging Seed Potato-Borne Pathogens That Impact Trade and Farm Viability	USDA Agricultural Research Service
Neil Gudmestad	AES & EXT	AES Plant Pathology		\$29,060.00	Optimizing Diagnostics to Detect an Emerging Virus, Potato Mop Top Virus, in Tubers and in its Soil-borne Vector, Spongospora Subterranea	USDA Agricultural Research Service

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Robert Brueggeman	AES & EXT	AES Plant Pathology		\$500,000.00	A Resistance and Susceptibility Gene Cluster in Barley in Targeted by Diverse Pyrenophorateres f. Teres Effectors	USDA-NIFA
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$83,879.00	Genetic and Molecular Characterization of New Sources of FHB Resistance in Wheat	USDA Agricultural Research Service
Andrew Green	AES & EXT	AES Plant Sciences	Senay Simsek Shaobin Zhong	\$122,465.00	Development of Hard Spring Wheat Cultivars Resistant to Fusarium Head Blight	USDA Agricultural Research Service
Andrew Robinson	AES & EXT	AES Plant Sciences		\$12,500.00	Kaneka Test	Kaneka
Elias Elias	AES & EXT	AES Plant Sciences	Frank Manthey Shaobin Zhong	\$142,868.00	Identify and Develop Durum Wheat Resistant to Fusarium Head Blight	USDA Agricultural Research Service
Jiajia Rao	AES & EXT	AES Plant Sciences	Paul Schwarz Shaobin Zhong	\$29,097.00	Using Chitosan Nanoparticles Targeting Fusarium and Mycotoxins during Malting	USDA Agricultural Research Service
Jiajia Rao	AES & EXT	AES Plant Sciences		\$87,441.00	Modification of Dry Yellow Pea Protein Isolate from Selected Cultivars Grown in US and Canada for Improved Functionality of Protein	Roquette America, Inc
Joel Ransom	AES & EXT	AES Plant Sciences	Michael Wunsch	\$10,500.00	Value of Genetic Resistance and Fungicides on FHB Control in Durum	USDA Agricultural Research Service
Joel Ransom	AES & EXT	AES Plant Sciences		\$8,400.00	Testing PGR for AMVAC	AMVAC Chemical Corporation
Paul Schwarz	AES & EXT	AES Plant Sciences		\$164,306.00	Evaluation of Barley and Malt for DON and Deoxynivalenol-3-Glucoside	USDA Agricultural Research Service
Phillip McClean	AES & EXT	AES Plant Sciences	Juan Osorno	\$69,868.00	Enhancing the Nutritional and Functional Traits of Dry Bean through Metabolomics, Genetics, and Breeding	USDA Agricultural Research Service
Richard Horsley	AES & EXT	AES Plant Sciences		\$204,016.00	Developing 6- and 2-Rowed Malting Barley Cultivars with Reduced FHB and DON	USDA Agricultural Research Service
Richard Horsley	AES & EXT	AES Plant Sciences		\$18,269.00	Developing Bioinformatic Pipelines for Genomics-Assisted Breeding using Graphical User Interfaces	USDA Agricultural Research Service
Xiwen Cai	AES & EXT	AES Plant Sciences	Shaobin Zhong	\$104,301.00	Characterization of Resistance to Fusarium Head Blight in Wheat and its Relatives	USDA Agricultural Research Service

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Xuehui Li	AES & EXT	AES Plant Sciences		\$35,620.00	Genetic Characterization and Selection for Fusarium Head Blight Resistance in Durum Wheat	USDA Agricultural Research Service
Christina Hargiss	AES & EXT	AES School of Natural Resource Sciences	Jack Norland	\$73,196.00	Improving Data and Understanding of Public Water Supply in North Dakota through Municipal and Industrial Water Use Information to Support the North Dakota State Water Commission	ND Water Commission
Daryl Ritchison	AES & EXT	AES School of Natural Resource Sciences		\$9,000.00	ND Agricultural Weather Network Improvement	ND Department of Agriculture
David Rider	AES & EXT	AES School of Natural Resource Sciences		\$23,000.00	Survey for the Dakota Skipper Hesperia Dacotae (Skinner)	ND National Guard
Edward DeKeyser	AES & EXT	AES School of Natural Resource Sciences		\$61,126.00	Habitat Restoration on Camp Grafton South	ND National Guard
Brett Webb	AES & EXT	AES Vet Diagnostic Service Department	Michelle Mostrom	\$54,175.00	LC/MS/MS Validated Method for Quantitation of Ergopeptines and - Inines in Grains and Grasses	Food and Drug Administration
Brett Webb	AES & EXT	AES Vet Diagnostic Service Department		\$10,500.00	-80 Subfreezer for Participation in Vet-LIRN AST Project	Food and Drug Administration
Megan Ditterick	AES & EXT	Extension Food & Nutrition	Ramona Danielson Mary Larson	\$568,750.00	Promoting Healthy Outcomes through Indigenous Food Systems	Centers for Disease Control
Lynette Flage	AES & EXT	Extension HD General		\$192,631.00	Community Based Child Abuse Prevention	ND Department of Human Services
Janet Knodel	AES & EXT	Extension Plant Pathology	Patrick Beauzay Andrew Friskop Samuel Markell Esther McGinnis Jesse Ostrander Andrew Thostenson	\$179,313.00	Extension Integrated Pest Management Program in North Dakota	USDA-NIFA
Samuel Markell	AES & EXT	Extension Plant Pathology	Guiping Yan	\$586,880.00	Expanding the SCN Coalition	United Soybean Board
Samuel Markell	AES & EXT	Extension Plant Pathology	Guiping Yan	\$300,000.00	Expanding the SCN Coalition	North Central Soybean Research Program
John Bitzan	CBUS	Management & Marketing		\$92,708.00	A Look at Railroad Costs, Scale Economies, and Differential Pricing on Policy and Agriculture	Agriculture Marketing Service

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Ying Huang	CENG	Civil & Environmental Engineering		\$643.00	Independent Risk Analysis for the Straits of Mackinac	Michigan Technological University
Ying Huang	CENG	Civil & Environmental Engineering	Wenfang Sun	\$300,000.00	Fluorescent Chemical Sensor Array for Detecting and Locating Pipeline Internal Corrosive Environments	Department of Transportation
Zhibin Lin	CENG	Civil & Environmental Engineering	Bashir Khoda	\$300,000.00	New Bio-inspired 3D Printing Functionalized Lattice Composites for Actively Preventing and Mitigating Internal Corrosion	Department of Transportation
Zhibin Lin	CENG	Civil & Environmental Engineering		\$300,000.00	Brain-inspired Learning Framework to Bridging Information and Human-machine Decision-making for Decoding Variance in Pipeline Computational Models	Department of Transportation
Rajesh Kavasseri	CENG	Electrical & Computer Engineering		\$15,000.00	Student Support for the 50th North American Power Symposium	IEEE
Fardad Azarmi	CENG	Mechanical Engineering	Ying Huang	\$3,879.00	Mitigating Pipeline Corrosion Using a Smart Thermal Spraying Coating System	Department of Transportation
Dean Gross	CHP	Nursing	Mykell Barnacle	\$60,180.00	Advancing Nursing Education Workforce	Health Resources and Services Administration
Jagdish Singh	CHP	Pharmaceutical Sciences		\$145,000.00	Brain Neurotropic Growth Factor Delivery to Prevent and Treat Alzheimer's Disease	National Institutes of Health
Sanku Mallik	CHP	Pharmaceutical Sciences	Bin Guo	\$64,145.00	Echogenic Polymersomes for Triggered Contents Release	National Institutes of Health
Sanku Mallik	CHP	Pharmaceutical Sciences	Bin Guo	\$287,625.00	Echogenic Polymersomes for Triggered Contents Release	National Institutes of Health
Yagna Jarajapu	CHP	Pharmaceutical Sciences		\$50,000.00	Targeting Mas Receptor for Diabetic Vascular Disease in Older Adults	National Institutes of Health
Dan Cernusca	CHP	Pharmacy Practice		\$18,411.00	Enriching the Undergraduate Experience Through Personalized Learning and Mentoring	Missouri University of Science & Technology
Paul Carson	CHP	Public Health	Kylie Hall	\$9,443.00	PPHF 2016: Increasing HPV Vaccine Coverage by Strengthening Adolescent AFIX Activities	ND Department of Health

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Britt Heidinger	CSM	Biological Sciences		\$1,551.00	Collaborative Research: Parental Effects, Telomere Dynamics, and the Cross-generational Consequences of Stressors	National Science Foundation
Julia Bowsher	CSM	Biological Sciences	Kendra Greenlee	\$2,854,451.00	R11 Track-2 FEC: Insect Cryobiology and Ecophysiology (ICE) Network: Integrating Genomics, Physiology, and Modeling	National Science Foundation
Julia Bowsher	CSM	Biological Sciences		\$61,092.00	Hymenopteran Stress Physiology	USDA Agricultural Research Service
Gudrun Lukat-Rodgers	CSM	Chemistry & Biochemistry		\$34,077.00	Understanding the Diverse Biochemistry of the Chlorite Dismutase Family	Montana State University
Andriy Voronov	CSM	Coatings & Polymeric Materials		\$30,000.00	Plant Oil-based Polymers for Personal Care Products	ND Department of Commerce
Clay Routledge	CSM	Psychology		\$146,700.00	Drivers of Campus Intolerance: The Psychology of Freedom	Charles G. Koch Charitable Foundation
Kelly Rusch	Misc	NDSU EPSCOR	Jean Ostrom-Blonigen	\$2,760,000.00	INnovative and Strategic Program Initiatives for Research and Education in North Dakota (INSPIRE-ND)	National Science Foundation
Benjamin Shapiro	Misc	TRIO		\$275,155.00	Upward Bound Project	Department of Education
Sara Mwagura	Misc	Wellness Center		\$483.38	NDSU Wellness Center Child Care ND Food Program	ND Department of Public Instruction
Alan Dybing	UGPTI	Upper Great Plains Transportation Institute	Kimberly Vachal	\$89,142.00	Collection of Agricultural Transportation Information for the Grain Transportation Report and Grain Truck Survey Evaluation and Redesign	Agriculture Marketing Service