

AWARD REPORT

June 2021

PI Name	PI College	PI Department	Co-PI(s)	Awarded Amount	Title	Sponsor Name
Gregory Lardy	AES & EXT	AES Agricultural & Biosystems Engineering	John Nowatzki Xin Sun	\$ 863,092.00	Advanced UAS/UAV Application and Data Management Systems and Bioinformatics Tools Integrate GxExM Data for Precision Agricultural Management	USDA Agricultural Research Service
Nurun Nahar	AES & EXT	AES Agricultural & Biosystems Engineering	Md Mukhlesur Rahman	\$ 15,905.00	Flax Shive as Alternative Raw Material for Particleboard Production	AmeriFlax
Blaine Schatz	AES & EXT	AES Carrington Research / Extension Center		\$ 11,340.00	Efficacy of Products for Fusarium in Wheat	Monsanto Co.
Blaine Schatz	AES & EXT	AES Carrington Research / Extension Center		\$ 15,876.00	Yield and performance trials of advanced field pea lines	Equinom Ltd.
Michael Wunsch	AES & EXT	AES Carrington Research / Extension Center		\$ 1,545.00	Improved White Mold Resistance in Dry and Snap Beans Through Multi-Site Screening and Pathogen Characterization Throughout Major Production Areas	USDA-ARS / University of Nebraska-Lincoln
Christopher Schauer	AES & EXT	AES Hettinger Research / Extension Center		\$ 50,000.00	Collaborative Livestock Research Between ARS and NDSU-Hettinger Research Extension Center	USDA Agricultural Research Service
Venkata Chapara	AES & EXT	AES Langdon Research / Extension Center		\$ 3,400.00	Evaluation of pesticide compounds to manage bacterial leaf blight of field peas	Northern Pulse Growers Association
Barney Geddes	AES & EXT	AES Microbiological Sciences		\$ 19,223.00	Towards elite pulse inoculants for the northern US tailored to local soils and varieties	Northern Pulse Growers Association
Brian Jenks	AES & EXT	AES North Central Research / Extension Center	Caleb Dalley Michael Ostlie	\$ 7,500.00	Flax tolerance to soil-applied and postemergence herbicides (2021)	AmeriFlax
Brian Jenks	AES & EXT	AES North Central Research / Extension Center		\$ 20,000.00	2021 Weed Control Research in Pulse Crops	Northern Pulse Growers Association
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology	Achintya Bezbaruah	\$ 84,124.00	Development of RNA Fungicides for Management of Sclerotinia Sclerotiorum on Canola	USDA Agricultural Research Service
Luis Del Rio Mendoza	AES & EXT	AES Plant Pathology		\$ 62,331.00	Improving Resistance of Spring Canola to Sclerotinia Stem Rot	USDA Agricultural Research Service
Andrew Friskop	AES & EXT	AES Plant Pathology		\$ 28,350.00	Attachment A-22/Evaluation of Wheat Seed Treatments	BASF Corporation
Andrew Friskop	AES & EXT	AES Plant Pathology		\$ 65,187.00	Integrated Management Strategies and Fungicide Testing for FHB and DON in Small Grains in North Dakota	USDA Agricultural Research Service
Mohamed Khan	AES & EXT	AES Plant Pathology		\$ 74,400.00	New Technologies to Study Virus-Host Interactions to Identify Strategies for Sugarbeet Viral Disease Management	USDA Agricultural Research Service
Zhaohui Liu	AES & EXT	AES Plant Pathology		\$ 113,970.00	Functional Characterization of Pathogen Produced Effectors and their Host Targets	USDA Agricultural Research Service

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Zhaohui Liu	AES & EXT	AES Plant Pathology		\$ 80,850.00	Characterization of Necrotrophic Effectors in the Parastagonospora Nodorum-Wheat Interaction	USDA Agricultural Research Service
Gary Secor	AES & EXT	AES Plant Pathology		\$ 176,800.00	New Strategies for Management of Cercospora Leaf Spot and Rhizomania Diseases of Sugarbeet	USDA Agricultural Research Service
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$ 78,560.00	Improvement of Barley Resistance to Fusarium Head Blight, Stripe Rust, and Hessian Fly	USDA Agricultural Research Service
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$ 208,765.00	Development of Elite Durum and Hard Red Spring Wheat Germplasm with Scab Resistance	USDA Agricultural Research Service
Shaobin Zhong	AES & EXT	AES Plant Pathology		\$ 172,978.00	Genetic Characterization and Integrated Deployment of FHB Resistance in Wheat	USDA Agricultural Research Service
Elias Elias	AES & EXT	AES Plant Sciences	Xuehui Li Frank Manthey Shaobin Zhong	\$ 177,889.00	Develop Durum Wheat Resistant to Fusarium Head Blight	USDA Agricultural Research Service
Greta Gramig	AES & EXT	AES Plant Sciences		\$ 1,300,372.00	Mulch 2o: Biodegradable Composite Hydromulches for Sustainable Organic Horticulture	USDA National Institute of Food & Agriculture
Andrew Green	AES & EXT	AES Plant Sciences		\$ 47,000.00	Improvement of Durum and Bread Wheat for Resistance to Fusarium Head Blight, Stem Rust, and Hessian Fly	USDA / Agricultural Research Service
Andrew Green	AES & EXT	AES Plant Sciences	Shaobin Zhong	\$ 127,539.00	Development of Hard Spring Wheat Cultivars Resistant to Fusarium Head Blight	USDA Agricultural Research Service
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 10,500.00	2021 Hard Red Spring Wheat Regional Quality Survey	SD Wheat Commission
Richard Horsley	AES & EXT	AES Plant Sciences		\$ 203,584.00	Developing 6- and 2- rowed Malting Barley Cultivars with Reduced FHB and DON	USDA Agricultural Research Service
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 25,000.00	Evaluation of Adjuvants Tank-Mixed with Commercial Herbicides	Winfield United
Joseph Ikley	AES & EXT	AES Plant Sciences		\$ 12,600.00	2021 XtendiMax Hooded Sprayer Deposition	Monsanto Co.
Burton Johnson	AES & EXT	AES Plant Sciences		\$ 7,326.00	Early Identification of SCN Disease	ND Department of Agriculture / University of North Dakota
Phillip McClean	AES & EXT	AES Plant Sciences	Juan Osorno	\$ 78,497.00	White Mold Resistance - QTL: Identification, Interactions, and Fine Mapping in Common Bean	USDA Agricultural Research Service
Phillip McClean	AES & EXT	AES Plant Sciences	Juan Osorno	\$ 87,072.00	Enhancing the Nutritional and Functional Traits of Dry Bean through Metabolomics, Genetics, and Breeding	USDA Agricultural Research Service
Phillip McClean	AES & EXT	AES Plant Sciences		\$ 153,000.00	Genomic Analysis of Septoria Nodorum Blotch Susceptibility Genes in Wheat	USDA Agricultural Research Service

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Md Mukhlesur Rahman	AES & EXT	AES Plant Sciences		\$ 25,803.00	Introgression and Pyramiding of Sclerotinia Stem Rot Disease Resistant Gene(s) into Canola Cultivars	USDA Agricultural Research Service
Andrew Robinson	AES & EXT	AES Plant Sciences	Julie Pasche	\$ 10,000.00	Late Blight Spore Trapping Network for Minnesota and North Dakota	MN Area II Potato Growers
Andrew Robinson	AES & EXT	AES Plant Sciences		\$ 32,689.00	Potato Agronomy Management Studies - 2021	MN Area II Potato Growers
Andrew Robinson	AES & EXT	AES Plant Sciences		\$ 144,586.00	Impact of Agronomic and Post-Harvest Management Practices on Potato Quality	USDA Agricultural Research Service
Paul Schwarz	AES & EXT	AES Plant Sciences		\$ 274,063.00	Evaluation of Barley and Malt for Fusarium Infection and Mycotoxins	USDA Agricultural Research Service
Kalidas Shetty	AES & EXT	AES Plant Sciences	Dipayan Sarkar	\$ 72,293.00	Identifying the Molecular Mechanisms Controlling Wound-Healing Processes to Improve Postharvest Quality of Potato	USDA Agricultural Research Service
Asunta Thompson	AES & EXT	AES Plant Sciences		\$ 20,000.00	Genetic Improvement and Potato Cultivar Development for the Northern Plains	MN Area II Potato Growers
David Rider	AES & EXT	AES School of Natural Resource Sciences		\$ 12,655.00	Exotic Wood Borer Survey and Identification and Exotic Moth Trap Identification	USDA-APHIS / ND Department of Agriculture
Kevin Sedivec	AES & EXT	AES School of Natural Resource Sciences	Jack Norland	\$ 8,734.00	Natural Resource Data Acquisition, Integrated Pest Management, and Range and Forest Management on North Dakota Army National Guard Lands in 2021-2022.	DoD / ND National Guard
Brett Webb	AES & EXT	AES Vet Diagnostic Service Department		\$ 30,864.00	Vet-LIRN Cooperative Agreement	Food and Drug Administration
Audrey Kalil	AES & EXT	AES Williston Research / Extension Center	Eric Eriksmoen John Rickertsen	\$ 22,300.00	Evaluation of planting date for chickpea yield and disease	Northern Pulse Growers Association
Tyler Tjelde	AES & EXT	AES Williston Research / Extension Center		\$ 6,500.00	Canola Population and Fertility Under Irrigation	Northern Canola Growers Association
Becky Koch	AES & EXT	Ext Agricultural Communication		\$ 2,500.00	Agriculture in the Classroom	ND Department of Agriculture
Diane Hahn	AES & EXT	Ext Center for 4-H Youth Dev		\$ 264,000.00	Building Community Capacity and Resilience through 4-H in ND Tribal Nations	USDA National Institute of Food & Agriculture
Rebecca Hager	AES & EXT	Ext County Programs		\$ 89,616.00	Expanding Opportunities for Tribal Youth and Native Agriculture at Fort Berthold	USDA National Institute of Food & Agriculture
Julie Garden-Robinson	AES & EXT	Ext Food & Nutrition		\$ 2,500.00	Eat Smart. Play Hard with DPI	ND Department of Public Instruction
Julie Garden-Robinson	AES & EXT	Ext Food & Nutrition		\$ 1,500.00	Eat Smart. Play Hard with Canola	Northern Canola Growers Association
Nicole Johnson	AES & EXT	Ext Food & Nutrition	Jan Stankiewicz	\$ 24,115.00	ND - NDSU EXCITE	USDA / Extension Foundation

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Abbey Wick	AES & EXT	Ext School of Natural Resource Sciences		\$ 20,000.00	Soil Health and Agriculture Research Extension (SHARE) Farm in Logan Center, ND	Northarvest Bean Growers Association
Audrey Kalil	AES & EXT	Ext Williston Research / Extension Center	Clair Keene	\$ 49,773.00	Maximizing Profit Opportunities In Pulse Crops	USDA-NIFA / University of Nebraska-Lincoln
Brian Sorenson	CAFSNR	Northern Crops Institute		\$ 5,750.00	FY22 NCI IP Soybean Procurement (Online)	ND Soybean Council
Dane Mataic	CAHSS	Sociology & Anthropology		\$ 33,054.00	Collaborative Research: Routine Maintenance of Registration Lists	National Science Foundation
Michael Strand	CAHSS	Visual Arts	Benjamin Bernard Amanda Heidt Eric Syvertson	\$ 7,067.00	North Dakota Council of the Arts Creative Aging - Tiny Press Kit	ND Council on the Arts
Mijia Yang	CENG	Civil & Environmental Engineering		\$ 39,188.00	Trace fragment shapes, sizes, and motions after impact	NASA / University of North Dakota
Ivan Lima	CENG	Electrical & Computer Engineering		\$ 3,000.00	Development of Device Prototypes for the Monitoring of Surgery Patients	NDSU Foundation & Alumni Association
Danling Wang	CENG	Electrical & Computer Engineering	Qifeng Zhang	\$ 5,000.00	"Smell" a virus: a fast, risk-free, novel sensing system for transmission disease control and prevention	NDSU Foundation & Alumni Association
Charles Peterson	CHP	Deans Office, Health Professions		\$ 72,325.00	Southpointe Pharmacy Teaching Program	Southpointe Pharmacy
Yagna Jarajapu	CHP	Pharmaceutical Sciences		\$ 253,750.00	Targeting Mas Receptor for Diabetic Vascular Disease in Older Adults	National Institutes of Health
Elisabetta Liverani	CHP	Pharmaceutical Sciences		\$ 217,500.00	Sex-related variations in the response of anti-platelet drug therapies targeting purinergic signaling pathways in sepsis	Department of Health and Human Services
Sanku Mallik	CHP	Pharmaceutical Sciences		\$ 50,000.00	Mechanistic studies on lung metastasis of breast cancer and Covid-19 infection	NIH / University of North Dakota
Kristine Steffen	CHP	Pharmaceutical Sciences	Benjamin Balas Daniel Friesner Clayton Hilmert Leah Irish Jeffrey Johnson Megan Orr Michael Robinson Mukund Sibi	\$ 381,592.00	Center for Biobehavioral Mechanisms of Eating Behavior (CBMEB)	NIH / Sanford Research North
Brody Maack	CHP	Pharmacy Practice		\$ 15,168.00	North Dakota Pharmacists Service Enhancement Project	CDC / ND Pharmacy Service Corporation
Shannon David Misialek	CHSE	Health, Nutrition & Exercise Sciences		\$ 440.00	Professional Athletic Training Student Perceptions and Knowledge of Cannabis 2	Mid-American Athletic Trainers' Assn
Kara Gange	CHSE	Health, Nutrition & Exercise Sciences		\$ 1,250.00	Graduate Assistant at Essentia Health - Ariel Ives	Essentia Health
Stacy Duffield	CHSE	School of Education		\$ 600.00	Teacher Preparation Common Metrics: Partnership with Bethel University	Bethel University

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Abigail Dennis	CSM	Biological Sciences		\$ 2,039.96	Developmental Plasticity and Insulin-Like Growth Factor (IGF) Expression in the House Sparrow (<i>Passer domesticus</i>) in Response to Temperature	American Ornithological Society
Britt Heidinger	CSM	Biological Sciences		\$ 281,140.00	CAREER: Rapid phenotypic divergence and insulin-like growth factor 1 (IGF-1) signaling in a widespread songbird	National Science Foundation
Lydia Nixon	CSM	Biological Sciences	Erin Gillam	\$ 1,000.00	Perceptions of bats among American college students during the novel coronavirus (SARS-CoV-2) pandemic	Sigma Xi
Wenfang Sun	CSM	Chemistry and Biochemistry		\$ 106,331.00	Collaborative Research: Developing cancer-specific targeting new photosensitizers for in vitro theranostic photodynamic therapy and photothermal therapy	National Science Foundation
Andriy Voronov	CSM	Coatings & Polymeric Materials		\$ 28,549.00	Bioderived and Biodegradable Polymer Coatings for Paper Used in Food Packaging	Sonoco / Clemson University
Dean Webster	CSM	Coatings & Polymeric Materials	Mukund Sibi	\$ 20,830.00	Exploration of Bio-based Functional Building Blocks for Durable Coatings	Center for Bioplastic and Biocomposites
Benjamin Laabs	CSM	Geosciences		\$ 81,064.00	Collaborative Research: a transparent-middle-layer computational and data management infrastructure for synoptic applications of cosmogenic-nuclide geochemistry	National Science Foundation
Kenneth Lepper	CSM	Geosciences		\$ 2,505.81	Understand Landform Ages on Stockton Island Tombolo, APIS	National Park Service
Debra Habedank	Misc	Center for Child Development		\$ 622.48	USDA Child and Adult Care Food Program	USDA-FNS / ND Department of Public Instruction
Jaclynn Walette	Misc	Multi-Cultural Programs		\$ 1,318.00	Louis Stokes STEM Pathways and Research Alliance: All Nations AMP (ANAMP) program	NSF / Salish Kootenai College
Thomas Claey	Misc	North Dakota Forest Service		\$ 174,200.00	NDFS/DPG Woodlands and Grasslands Sustainability Agreement	Forest Service
Xuefeng Chu	Misc	Water Resources Institute		\$ 25,000.00	ND Water Commission Matching Funds for NDWRRRI Graduate Fellowship Program	ND Water Commission
Marianne Quittschreiber	Misc	Wellness Center		\$ 1,007.96	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction
Marianne Quittschreiber	Misc	Wellness Center		\$ 1,175.94	NDSU Wellness Center Child Care ND Food Program	USDA-FNS / ND Department of Public Instruction