

Title	Grant year	Proj no	PI	Institution
<b>Foundational Knowledge of Plant Products</b>				
<a href="#">More Bang for your Buckwheat</a>	2024	2024-51300-43049	Murphy, K.	WASHINGTON STATE UNIVERSITY
<a href="#">Exploring The Feasibility Of End Of Production Regimens To Improve Leafy Green Nutritional Content, Appearance, And Post-Harvest Longevity</a>	2023	2023-68013-39640	Walters, K. J.	UNIVERSITY OF TENNESSEE
<b>Food and Human Health</b>				
<a href="#">Effects of goji berry intake on risk of age-related macular degeneration: A randomized clinical trial</a>	2023	2023-67017-39556	Hackman, R. M.	UNIVERSITY OF CALIFORNIA, DAVIS
<a href="#">PARTNERSHIP: Anti-inflammatory Interactions of Gallotannins with the Intestinal Microbiome in Obesity</a>	2023	2023-68015-40572	Talcott, S.	TEXAS A&M UNIVERSITY
<a href="#">The milk exosome - bacterial vesicle - host health triad</a>	2023	2023-67017-39056	Zempleni, J.	UNIVERSITY OF NEBRASKA
<a href="#">Full-Fat and Fat-Free Dairy, With and Without Fermentation, on Gut Microbiome, Gut and Serum Metabolome, and Host Cardiometabolic Risk Status</a>	2023	2023-67017-39761	Lichtenstein, A. H.	TUFTS UNIVERSITY

Title	Grant year	Proj no	PI	Institution
<a href="#">Understanding nutrition through machine vision</a>	2024	2024-67023-42545	Brownback, A.	UNIVERSITY OF ARKANSAS
<a href="#">Simple and Sensitive Detection of Mycotoxins in Foods Using Enzyme Mimics as Labels</a>	2024	2024-67021-42829	Xia, X.	UNIVERSITY OF CENTRAL FLORIDA
<a href="#">Whole food fibers for support of key gut bacteria for human health 2023</a>	2023	2023-67017-40013	Hamaker, B.	PURDUE UNIVERSITY
<a href="#">Role of essential fatty acid metabolites in preventing human metabolic disease via the gut-muscle axis</a>	2024	2024-67017-42458	Markworth, J.	PURDUE UNIVERSITY
<a href="#">Reducing cadmium bioavailability from food by protecting the human gut microbiota from cadmium toxicity</a>	2024	2024-67017-42466	Rose, D.	UNIVERSITY OF NEBRASKA
<a href="#">Quadrupole Time-Of-Flight Mass Spectrometry System With Electron Activated Dissociation Capability For Metabolomics And Lipidomics Research</a>	2024	2024-70410-43767	Stevens, J. F.	OREGON STATE UNIVERSITY
<a href="#">Potato Carbohydrate and Associated Phytochemicals (PCAP) As A Driver Of Gut Health: A Value-Added Trait of Select Cultivars</a>	2024	2024-67012-42746	Bagheri Toulabi, S.	COLORADO STATE UNIVERSITY
<a href="#">PARTNERSHIP: Elucidating Gut Microbiota-dependent Health Impacts of Haskap Berries to Inform Agricultural Production Practices that will Maximize Bioactive Potential -</a>	2024	2024-67018-42493	Miles, M. P.	MONTANA STATE UNIVERSITY

Title	Grant year	Proj no	PI	Institution
<a href="#">Bioactive and anti-diabetic properties of polyphenols from blueberry (Vaccinium corymbosum) - TUSKEGEE UNIVERSITY</a>	2024	2024-69015-42357	Onuh, J. O.	TENNESSEE STATE UNIVERSITY
<a href="#">DSFAS: Harnessing the Power of Artificial Intelligence and Deep Eutectic Solvents to Boost Antioxidant Synergism - CLEMSON UNIVERSITY</a>	2024	2024-67021-42520	Garcia, C. D.	CLEMSON UNIVERSITY
<a href="#">An In-Depth Elucidation Of The Correlation Between Dietary Fiber And Gut Microbiota</a>	2024	2024-38821-42214	Wu, Y.	TENNESSEE STATE UNIVERSITY
<a href="#">Effect of Fucoxanthin Supplemented Yogurt on Weight Loss in Overweight and Obese Adults - PRAIRIE VIEW A&amp;M UNIVERSITY</a>	2024	2024-69015-42424	Attaie, R.	PRAIRIE VIEW A&M UNIVERSITY
<a href="#">Dietary Fiber Improves Energy Homeostasis via Changes in small intestinal microbiota-host interactions</a>	2023	2023-67017-39930	Duca, F. A.	UNIVERSITY OF ARIZONA
<a href="#">Bioactive Components of Macadamia Nut Protects Against Maternal Obesity-induced Complications</a>	2023	2023-67017-40223	NATARAJAN, S. K.	SAES - UNIVERSITY OF NEBRASKA
<a href="#">PARTNERSHIP: Using Natural Experiments To Understand The Impact Of Summary Nutrition Labels On Nutrition Disparities And Retail Pricing</a>	2023	2023-67023-39111	Zhen, C.	UNIVERSITY OF GEORGIA
<a href="#">The milk exosome - bacterial vesicle - host health triad</a>	2023	2023-67017-39056	Zempleni, J.	SAES - UNIVERSITY OF NEBRASKA

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<a href="#">Validation of microbial pathogen control on dried RTE sausages by novel antimicrobial and mathematical approaches.</a>	2023	2023-67017-39044	Taylor, M.	SAES - TEXAS A&M UNIVERSITY
<a href="#">A Cost-Benefit Analysis of EFNEP Utilizing Biomarkers of Chronic Disease Risk</a>	2022	2022-69015-36283	Leschewski, A.	SOUTH DAKOTA STATE UNIVERSITY
<a href="#">CAMRADES Connecting AntiMicrobial Resistance, Agricutlural Decisions, and Environmental Systems</a>	2022	2022-68015-36717	Soupir, M. L.	IOWA STATE UNIVERSITY
<a href="#">Controlling Salmonella through enhanced understanding of horizontal transmission and a novel and scalable vaccination strategy in broilers.</a>	2022	2022-67017-36936	Hargis, B.	UNIVERSITY OF ARKANSAS
<a href="#">Maximizing the impact of nutrition education to meet the dietary quality and food security needs of children and parents</a>	2022	2022-68015-36279	Eicher-Miller, H. A.	PURDUE UNIVERSITY
<a href="#">Mitigating Antimicrobial Resistance in the Male Dairy Calf Production System</a>	2022	2022-68015-36628	Habing, G. G.	OHIO STATE UNIVERSITY - VET MED
<a href="#">SMART OPTICAL SENSING OF FOOD HAZARDS AND ELIMINATION OF NON-NITROFURAZONE SEMICARBAZIDE IN POULTRY</a>	2021	6040-42440-001-000D	Park B	AGRICULTURAL RESEARCH SERVICE

**Agricultural Microbiomes in Plant Systems and Natural Resources**

Title	Grant year	Proj no	PI	Institution
<a href="#">Integrative Multi-Omics to Elucidate Mechanisms and Implications of Microbiome Evolution to Agri-Food Nanomaterials in Food System</a>	2023	2023-67021-39749	Zhang, B.	UNIVERSITY OF FLORIDA
<a href="#">PARTNERSHIP: Crop exposure to micro-nanoplastics and potential impact on human nutrition and health</a>	2023	2023-67017-39267	Demokritou, P.	RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY
<a href="#">Remote sensing biological invasions: detecting and monitoring leafy spurge populations using high resolution imagery and deep learning</a>	2023	2023-67013-39894	Briscoe Runquist, R.	UNIV OF MINNESOTA
<a href="#">Response Of The Corn Microbiome And Defense-Related Secondary Metabolites To Flooding Stress And Management Interventions</a>	2023	2023-67013-39634	Ngumbi, E.	UNIVERSITY OF ILLINOIS
<a href="#">UKRI/BBSRC-NSF/BIO: Interbacterial warfare in plant colonization: tradeoffs, structural complexity and evolutionary dynamics</a>	2024	2024-67013-43794	KARASOV, T.	University of Utah
<a href="#">Toxic Metal Exposure In Cattle And Discovery Of Microbiome Functions That Mitigate Input Into The Food Chain</a>	2024	2024-67018-42445	Walk, S.	MONTANA STATE UNIVERSITY
<a href="#">Protection of Honey Bees through Paratransgenic Peptide Secretion</a>	2024	2024-67013-42304	Barrick, J.	THE UNIVERSITY OF TEXAS AT AUSTIN
<a href="#">PARTNERSHIP: Nanoparticulate soil amendments for achieving Closer to Zero via metal(loid) encapsulation</a>	2024	2023-67017-42237	Adeleye, A.	COLUMBIA UNIV

Title	Grant year	Proj no	PI	Institution
<a href="#">Identification of rice genes that structure the leaf microbial community for enhanced disease resistance</a>	2024	2024-67013-42479	Leach, J.	COLORADO STATE UNIVERSITY
<a href="#">Targeting microbiomes for optimal climate resilience: a case study of arbuscular mycorrhizae and drought resistance</a>	2024	2024-67013-42480	Lubin, T.	UNIVERSITY OF KANSAS CENTER FOR RESEARCH
<a href="#">Interactions of soil- and rhizosphere microbiomes, plant nutrition, nitrification, and nitrous oxide production in agricultural cropping systems</a>	2023	2023-67019-40170	Martens-Habbena, W. A.	UNIVERSITY OF FLORIDA
<a href="#">The wisdom of the quorum: How biofilm microbiomes can support or inhibit Listeria monocytogenes growth in small meat processing facilities</a>	2023	2023-67018-39182	Belk, A	AUBURN UNIVERSITY
<b>Novel Foods</b>				
<a href="#">Novel native starch granule-guest inclusion complexes: formation, structure, and function</a>	2024	2023-67017-40249	Mauer, L.	PURDUE UNIVERSITY
<a href="#">Using Artificial Intelligence and Robust Protein Design Methods for Highly Efficient Production of Milk Proteins via Bacterial Fermentation</a>	2024	2024-67017-42678	Love, J.	SAN DIEGO STATE UNIVERSITY
<a href="#">UPCYCLING AGRO INDUSTRIAL BYPRODUCTS TO DEVELOP THE NEXT GENERATION OF FOOD COLORANTS DERIVED FROM NATURE.</a>	2023	2023-67017-39862	Giusti, M. M.	OHIO STATE UNIVERSITY

Title	Grant year	Proj no	PI	Institution
<a href="#">Unraveling the Economic Landscape of Cell-Cultured Meats and its Social Impact on Food Choice</a>	2024	2024-67023-42683	Lai, J. H.	UNIVERSITY OF FLORIDA
<a href="#">Leveraging Consumer Trends and Multidisciplinary Collaboration in Developing Nutritionally Improved and Healthy Snacks</a>	2024	2024-38821-42103	Aryee, A. N.	DELAWARE STATE UNIVERSITY
<a href="#">Magnetic field-assisted supercooling to enhance physical, chemical, and nutritional properties of the emulsion-based solid lipid nanoparticles</a>	2024	2024-67017-42805	Jun, S.	UNIV OF HAWAII
<a href="#">Improving Sunflower Protein Functionality And Quality By Modulating Polyphenol-Protein And Thiol-Protein Conjugation</a>	2024	2024-67018-42717	Senger, L. W.	CHAPMAN UNIVERSITY
<a href="#">Unlocking the green potential: Genome-scale metabolic modeling for microalgae-based food innovation</a>	2024	2024-67017-42676	Zhao, J.	<a href="#">SAN DIEGO STATE UNIVERSITY</a>
<a href="#">Bioinspired enzymatic manufacturing of pulse protein hydrogels as cold/heat-tolerant fat texturizing agents</a>	2023	2023-67017-40167	ZHANG, Y.	PENNSYLVANIA STATE UNIVERSITY
<a href="#">Enhancing functionality of plant proteins: Engineering novel structures and developing a predictive framework for food product development</a>	2023	2023-67017-39832	BORNHORST, G. M.	SAES - UNIVERSITY OF CALIFORNIA
<b>Improved Production, Packaging and Methods for Food Security and Safety</b>				

<a href="#">Improving the limit of norovirus detection in food matrices using engineered yeasts to concentrate and purify viral particles</a>	2025	2023-67017-43957	Chen, J.	The Regents of University of California
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Title	Grant year	Proj no	PI	Institution
<a href="#">Understanding the Meat Supply Chain Network: The Impact of Supply Disruptions on Food Insecurity and Nutritional Inequality</a>	2023	2023-67023-39113	DU, X.	UNIV OF WISCONSIN
<a href="#">POPBEANS SREP: Protein-rich Wholesome Popping Beans to Enhance Agricultural Production, Nutrition, and Sustainability</a>	2024	2024-51181-43288	Gang, D.	WASHINGTON STATE UNIVERSITY
<a href="#">PARTNERSHIP: Sustainable Processing of Food Waste to High Value Energy Storage Material</a>	2024	2024-67021-42490	Kumar, S.	OLD DOMINION UNIVERSITY RESEARCH FOUNDATION
<a href="#">Optical CRISPR Nano-diagnostics Against Common Salmonella Serotypes Using Mobile-App Driven Image Analysis and Data Transmission</a>	2024	2024-67022-41531	Yigit, M.	STATE UNIVERSITY OF NEW YORK
<a href="#">Nanophotonic-CRISPR Chip for Rapid and Sensitive Antibiotic Resistant Bacteria Detection in Milk</a>	2024	2024-67021-42833	Yang, S.	ARIZONA STATE UNIVERSITY
<a href="#">Microbial Hazard Assessment and Capacity Building in AI-enabled Biosensing for Contamination Detection in Hydroponic and Aquaponic System</a>	2024	2024-38821-42060	Chhetri, V. S.	FLORIDA A&M UNIVERSITY
<a href="#">Integration of Onsite Monitoring and Treatment of Waterborne Pathogens for Agriculture Return Flow and Recycle Wastewater</a>	2024	2024-67019-42619	Cheng, Q.	UNIVERSITY OF WISCONSIN



<a href="#">Direct-to-Object Formation of Unique and Secure Identifiers for Agri-Food Supply Chains: Materials, Manufacturing, and Financial Feasibility</a>	2024	2024-67017-42804	Kozicki, M.	ARIZONA STATE UNIVERSITY
Title	Grant year	Proj no	PI	Institution
<a href="#">Enhancing Food Safety: Rapid Detection of Salmonella in Onions Using Microscopic Imaging and Artificial Intelligence</a>	2024	2024-70001-43667	AlSobeh, A. M.	SOUTHERN ILLINOIS UNIV
<a href="#">A Machine Learning Approach to Elucidate Interactions of Food Constituents with Novel Can Coatings to Predict Product Safety and Shelf Life</a>	2024	2024-67011-42992	Tieu, S.	PENNSYLVANIA STATE UNIVERSITY
<a href="#">Developing biobased plasticizers and processing methods to create edible, sustainable plastic packaging alternatives from proteins</a>	2024	2024-67017-42558	GIRARD, A.	UNIV OF WISCONSIN
<a href="#">Developing a Chemical Platform Based on Cottonseed Oil to Develop Functional Finishes for Cellulosic Substrates</a>	2024	2024-67013-41950	Venditti, R.	NORTH CAROLINA STATE UNIV
<a href="#">DSFAS: MASH - Machine learning and advanced omics data Analysis for improved food Safety and public Health</a>	2024	2024-67021-42527	Pradhan, A.	UNIV OF MARYLAND
<a href="#">Center for Scalable and Intelligent Automation in Poultry Processing (CSIAPP)</a>	2023	2023-70442-39232	Subbiah, J.	SAES - UNIVERSITY OF ARKANSAS
<a href="#">PARTNERSHIP: Field management and post-harvest methods to mitigate toxic inorganic and organic arsenic species in rice grain</a>	2023	2023-67017-39185	Seyfferth, A.L.	UNIVERSITY OF DELAWARE

<a href="#">SUSTAINABLE POULTRY PROCESSING RESEARCH</a>	2022	6040-42440-001-011S	Bowker B C	AUBURN UNIVERSITY
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<b>Diet, Nutrition and the Prevention of Chronic Disease</b>				
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<a href="#">Advancing Food Security and Nutrition through Machine Learning-based Forecasting and Interventions for Food Pantries in Alabama - TUSKEGEE UNIVERSITY</a>	2023	2023-69006-40213	Chen, R.	TUSKEGEE UNIVERSITY
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<a href="#">Smart Nutrition Program to Promote Nutrition Security and Health through Personalized Nutrition and Digital Nutrition Literacy</a>	2023	2023-68015-39601	CHUN, O.	SAES - UNIVERSITY OF CONNECTICUT
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<a href="#">PARTNERSHIP: Increasing trout consumption in young children and families for cognitive and mental health benefit</a>	2023	2023-69015-39605	ROE, A.	SAES - UNIVERSITY OF IDAHO
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<b>Agriculture and Food Research Initiative</b>			-	
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<a href="#">Precision Farming Practices for Sustainable Egg Productions</a>	2023	2023-68008-39853	Chai, L.	UNIVERSITY OF GEORGIA
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<a href="#">The Resilient Cow: Next-Generation Selection using High-Frequency Phenotypes to Achieve Predictable Performance in Unpredictable Conditions</a>	2023	2023-67015-39567	WEIGEL, K. A.	UNIV OF WISCONSIN
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<a href="#">When Blue is Green: Sustainable Blue Food Systems Driven by Integrated Aquaponics</a>	2023	2023-68012-39001	Huang, J.	PURDUE UNIVERSITY
<a href="#">Where Can We Grow? Machine Learning to Predict Climate Impacts on U.S. Corn and Soybean Suitability</a>	2023	2023-67011-40361	Smith, H.	UNIVERSITY OF ARKANSAS
<b>Title</b>	<b>Grant year</b>	<b>Proj no</b>	<b>PI</b>	<b>Institution</b>
<a href="#">Protein/energy supplementation to beef heifers during mid-gestation: fetal programming and long-term outcomes on offspring muscle development</a>	2024	2024-67011-43015	Hurlbert, J. L.	NORTH DAKOTA STATE UNIV
<a href="#">Partnership: Nanotech-Enabled Antimicrobial Packaging Materials and Technology for Food Preservation and Safety</a>	2023	2023-67018-40681	SUN, Y.	SAES - CLEMSON UNIVERSITY