EXTRAMURAL AWARDS

May 2019

COLLEGE OF AGRICULTURE

AGRICULTURAL ECONOMICS

Bergtold, Jason S., and **Tack, Jesse B.**, US Department of Agriculture, \$50,843, "Producer Driven Adaptation to Extreme Weather and Climate Change: Examining Crop Management and Marketing Adaption Strategies (Noah Miller)."

Pendell, Dustin L., Amrine, David E. (Dean of Veterinary Medical Center), **Larson, Robert L.** (Clinical Sciences), **Weaber, Robert L.** (Animal Sciences and Industry), and **White, Bradley J.** (Dean of Veterinary Medical Center), American Angus Association, \$18,000, "BCI Health Knowledge Network: Monitoring Cattle Heart Syndromes."

Reid, Roberta M., and **Taylor, Mykel R.**, US Department of Agriculture, \$44,879, "Farm Financial Skills for Kansas Women in Agriculture-A Statewide Program to Address Financial Risk Amid a Struggling Farm Economy."

Tack, Jesse B., and **Bergtold, Jason S.**, US Department of Agriculture, \$50,843, "Producer Driven Adaptation to Extreme Weather and Climate Change: Examining Crop Management and Marketing Adaption Strategies (Noah Miller)."

Taylor, Mykel R., and **Reid, Roberta M.**, US Department of Agriculture, \$4,987, "Farm Financial Skills for Kansas Women in Agriculture-A Statewide Program to Address Financial Risk Amid a Struggling Farm Economy."

Tonsor, Glynn T., US Department of Agriculture, \$91,975, "Consumer and Societal Impacts of More Efficient Animal Protein Production."

AGRICULTURAL RESEARCH CENTER-HAYS

Kumar, Vipan, and **Peterson, Dallas E.** (Agronomy), Kansas Soybean Commission, \$17,109, "Non-Xtend Soybean Response to Simulated Dicamba Drift."

AGRONOMY

Adee, Eric A., Little, Christopher R. (Plant Pathology), and **Schapaugh Jr, William T.**, Kansas Soybean Commission, \$3,995, "Investigating SDS and Fusarium Root Rot Resistance, Preventive Seed Treatments, and Pathogen Variability in Kansas."

Adee, Eric A., Support Funds, \$24,500, "AGR Support Funds Experiment Field 26."

Ciampitti, Ignacio, Duncan, Stewart R. (Northeast Area Office), Ruiz Diaz Suarez, Dorivar A., and Sweeney, Daniel W. (Southeast Agricultural Research Center), Kansas Soybean Commission, \$4,333, "Assessment of Soil Potassium Bioavailability and Improving Diagnostics Tools for K Management on Soybean in Kansas."

Ciampitti, Ignacio, Duncan, Stewart R. (Northeast Area Office), Jardine, Douglas J. (Plant Pathology), Knapp, Mary C., McCornack, Brian P. (Entomology), O'Brien, Daniel M. (Northwest Area Office), and Ruiz Diaz Suarez, Dorivar A., Kansas Soybean Commission, \$16,500, "Improving Soybean Yields by Enhancing Seed Filling."

Jugulam, Mithila, Miller Chemical and Fertilizer LLC, \$21,870, "Enhancement of Herbicide Uptake and Translocation by Miller Adjuvants."

Knapp, Mary C., Ciampitti, Ignacio, Duncan, Stewart R. (Northeast Area Office), Jardine, Douglas J. (Plant Pathology), McCornack, Brian P. (Entomology), O'Brien, Daniel M. (Northwest Area Office), and Ruiz Diaz

Suarez, Dorivar A., Kansas Soybean Commission, \$1,375, "Improving Soybean Yields by Enhancing Seed Filling."

Lin, Xiaomao, Little, Christopher R. (Plant Pathology), Roozeboom, Kraig L., and Sassenrath, Gretchen F. (Southeast Agricultural Research Center), Kansas Soybean Commission, \$1,722, "Soybean Production Systems to Control Charcoal Rot and Other Soil-borne Diseases."

Lingenfelser, Jane E., Syngenta Seeds, Inc., \$13,720, "Service Order A-1: Standard Yield Trial Evaluations."

Peterson, Dallas E., and **Kumar, Vipan** (Agricultural Research Center-Hays), Kansas Soybean Commission, \$17,109, "Non-Xtend Soybean Response to Simulated Dicamba Drift."

Peterson, Dallas E., Support Funds, \$16,420, "AGR Support Funds Public Service 35."

Presley, DeAnn R., US Department of Agriculture, \$50,000, "Implementing Sustainable Landscape Designs for Great Plains Bioenergy Supply Systems."

Rice, Charles W., Dodds, Walter K. (Biology), and **Zeglin, Lydia H.** (Biology), Kansas Board of Regents, \$2,500, "RII Track-1: Microbiomes of Aquatic, Plant and Soil Systems Across Kansas."

Roozeboom, Kraig L., Lin, Xiaomao, Little, Christopher R. (Plant Pathology), and Sassenrath, Gretchen F. (Southeast Agricultural Research Center), Kansas Soybean Commission, \$5,165, "Soybean Production Systems to Control Charcoal Rot and Other Soil-borne Diseases."

Ruiz Diaz Suarez, Dorivar A., Ciampitti, Ignacio, Duncan, Stewart R. (Northeast Area Office), and Sweeney, Daniel W. (Southeast Agricultural Research Center), Kansas Soybean Commission, \$30,330, "Assessment of Soil Potassium Bioavailability and Improving Diagnostics Tools for K Management on Soybean in Kansas."

Ruiz Diaz Suarez, Dorivar A., Ciampitti, Ignacio, Duncan, Stewart R. (Northeast Area Office), Jardine, Douglas J. (Plant Pathology), Knapp, Mary C., McCornack, Brian P. (Entomology), and O'Brien, Daniel M. (Northwest Area Office), Kansas Soybean Commission, \$1,375, "Improving Soybean Yields by Enhancing Seed Filling."

Schapaugh Jr, William T., Todd, Timothy C. (Plant Pathology), and **Trick, Harold N.** (Plant Pathology), Kansas Soybean Commission, \$170,000, "Integrating Germplasm Evaluation, Genetic Engineering, Breeding and High-Throughput Phenotyping to Improve Sustainability of Soybean Production."

Schapaugh Jr, William T., Adee, Eric A., and **Little, Christopher R.** (Plant Pathology), Kansas Soybean Commission, \$1,998, "Investigating SDS and Fusarium Root Rot Resistance, Preventive Seed Treatments, and Pathogen Variability in Kansas."

ANIMAL SCIENCES AND INDUSTRY

Amamcharla, Jayendra K., Midwest Dairy Association, \$7,692, "Functional Modification of Dairy Ingredients Using Whey Protein Nanofibrils to Replace Thickening Agents in the Formulations."

Beyer, R. Scott, Paulk, Chad B. (Grain Science and Industry), and Stark, Charles (Grain Science and Industry), Illinois Soybean Association, \$852, "Evaluation of Soybean Meal from Illinois Soybeans."

Bradford, Barry J., Nutreco, \$95,274, "The Effect of Gluconic Acid (Calcium Gluconate) Supplementation in Diets for Mid-lactation Holstein Cows on Lactation Performance and Feed Efficiency."

Chao, Michael, Magnin, Geraldine C. (Anatomy and Physiology), and O'Quinn, Travis G., National Cattlemen's Beef Association, \$9,900, "Utilizing Collagen Crosslinks as Markers for Sensory Improvement of Beef Shin/Shank Cuts."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, **Niederwerder, Megan** (Diagnostic Medicine/Pathobiology), **Tokach, Michael D.**, and **Woodworth, Jason C.**, CEVA Biomune, \$21,298, "Effect of GleptoForte Injection Timing on Suckling, Nursery and Finish Pig Performance, Hematological Criteria and Fecal Microbiome Characteristics."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Tokach, Michael D.**, and **Woodworth, Jason C.**, Origination Inc, \$12,000, "Comparing the Effects of Different Phytase Sources on the Growth Performance and Bone Mineralization of Nursery Pigs."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Paulk, Chad B.** (Grain Science and Industry), **Stark, Charles** (Grain Science and Industry), **Tokach, Michael D.**, and **Woodworth, Jason C.**, Syngenta Seeds, Inc., \$24,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Growfinish Pigs."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Niederwerder, Megan (Diagnostic Medicine/Pathobiology), Tokach, Michael D., and Woodworth, Jason C., CEVA Biomune, \$21,298, "Effect of GleptoForte Injection Timing on Suckling, Nursery and Finish Pig Performance, Hematological Criteria and Fecal Microbiome Characteristics."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Tokach, Michael D., and Woodworth, Jason C., Origination Inc, \$12,000, "Comparing the Effects of Different Phytase Sources on the Growth Performance and Bone Mineralization of Nursery Pigs."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Paulk, Chad B. (Grain Science and Industry), Stark, Charles (Grain Science and Industry), Tokach, Michael D., and Woodworth, Jason C., Syngenta Seeds, Inc., \$24,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Growfinish Pigs."

Lee, Charles D., Kansas Department of Wildlife and Parks, \$4,899, "Extension Education Position Support."

O'Quinn, Travis G., Chao, Michael, and **Magnin, Geraldine C.** (Anatomy and Physiology), National Cattlemen's Beef Association, \$5,400, "Utilizing Collagen Crosslinks as Markers for Sensory Improvement of Beef Shin/Shank Cuts."

Phebus, Randall K., and **Smith, Gordon L.** (Grain Science and Industry), General Mills, Inc., \$58,964, "Flour Safety: An Industry Collaboration Proposal for K-State Studies to Advance the Development of a Commercially Applied Antimicrobial Intervention [Study 1a)1]."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Niederwerder, Megan** (Diagnostic Medicine/Pathobiology), and **Woodworth, Jason C.**, CEVA Biomune, \$21,298, "Effect of GleptoForte Injection Timing on Suckling, Nursery and Finish Pig Performance, Hematological Criteria and Fecal Microbiome Characteristics."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Woodworth, Jason C.**, Origination Inc, \$12,000, "Comparing the Effects of Different Phytase Sources on the Growth Performance and Bone Mineralization of Nursery Pigs."

Tokach, Michael D., Paulk, Chad B. (Grain Science and Industry), and Stark, Charles (Grain Science and Industry), Syngenta Seeds, Inc., \$900, "Evaluation of Pelleting of High Amylase Corn on Starch Gelatinization."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Paulk, Chad B. (Grain Science and Industry), Stark, Charles (Grain Science and Industry), and

Woodworth, Jason C., Syngenta Seeds, Inc., \$24,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Growfinish Pigs."

Weaber, Robert L., Amrine, David E. (Dean of Veterinary Medical Center), Larson, Robert L. (Clinical Sciences), Pendell, Dustin L. (Agricultural Economics), and White, Bradley J. (Dean of Veterinary Medical Center), American Angus Association, \$18,000, "BCI Health Knowledge Network: Monitoring Cattle Heart Syndromes."

Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Niederwerder, Megan (Diagnostic Medicine/Pathobiology), and Tokach, Michael D., CEVA Biomune, \$21,298, "Effect of GleptoForte Injection Timing on Suckling, Nursery and Finish Pig Performance, Hematological Criteria and Fecal Microbiome Characteristics."

Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., Origination Inc, \$12,000, "Comparing the Effects of Different Phytase Sources on the Growth Performance and Bone Mineralization of Nursery Pigs."

Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Paulk, Chad B. (Grain Science and Industry), Stark, Charles (Grain Science and Industry), and Tokach, Michael D., Syngenta Seeds, Inc., \$24,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Grow-finish Pigs."

DEAN OF AGRICULTURE AND DIRECTOR OF AES

Dalton, Timothy J., US Agency for International Development, \$184,057, "Implement a Genomics-Assisted Breeding Program in a Small Breeding Program in a Developing Country."

Dalton, Timothy J., US Agency for International Development, \$800,000, "The Management Entity of the Sorghum and Millet Innovation Lab."

ENTOMOLOGY

Kim, Tania, and **Spiesman, Brian J.**, US Department of Agriculture, \$24,975, "Does Resource Continuity at a Landscape Scale Benefit Natural Enemies and Biocontrol?."

McCornack, Brian P., Kansas Soybean Commission, \$56,198, "Agricultural Research Experiences for Teachers (RET) - Using Soybean as a Model System."

McCornack, Brian P., Smith, C. Michael, and Whitworth, Robert "Jeff" J., Kansas Soybean Commission, \$24,000, "Development of Genetic, Chemical and Population-Based Tactics to Manage Key Kansas Soybean Insect Pests."

McCornack, Brian P., Ciampitti, Ignacio (Agronomy), Duncan, Stewart R. (Northeast Area Office), Jardine, Douglas J. (Plant Pathology), Knapp, Mary C. (Agronomy), O'Brien, Daniel M. (Northwest Area Office), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, \$1,375, "Improving Soybean Yields by Enhancing Seed Filling."

Park, Yoonseong, US Department of Agriculture, \$118,150, "Fly-microbe Interactions Across Life History."

Ruberson, John R., Support Funds, \$15,000, "AEN Support Funds Research 50."

Smith, C. Michael, McCornack, Brian P., and Whitworth, Robert "Jeff" J., Kansas Soybean Commission, \$24,000, "Development of Genetic, Chemical and Population-Based Tactics to Manage Key Kansas Soybean Insect Pests."

Spiesman, Brian J., and **Kim, Tania**, US Department of Agriculture, \$24,975, "Does Resource Continuity at a Landscape Scale Benefit Natural Enemies and Biocontrol?."

Whitworth, Robert "Jeff" J., McCornack, Brian P., and Smith, C. Michael, Kansas Soybean Commission, \$12,000, "Development of Genetic, Chemical and Population-Based Tactics to Manage Key Kansas Soybean Insect Pests."

GRAIN SCIENCE AND INDUSTRY

Paulk, Chad B., Beyer, R. Scott (Animal Sciences and Industry), and **Stark, Charles**, Illinois Soybean Association, \$7,239, "Evaluation of Soybean Meal from Illinois Soybeans."

Paulk, Chad B., Stark, Charles, and **Tokach, Michael D.** (Animal Sciences and Industry), Syngenta Seeds, Inc., \$16,200, "Evaluation of Pelleting of High Amylase Corn on Starch Gelatinization."

Paulk, Chad B., DeRouchey, Joel M. (Animal Sciences and Industry), Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D. (Animal Sciences and Industry), Stark, Charles, Tokach, Michael D. (Animal Sciences and Industry), and Woodworth, Jason C. (Animal Sciences and Industry), Syngenta Seeds, Inc., \$24,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Grow-finish Pigs."

Smith, Gordon L., and **Phebus, Randall K.** (Animal Sciences and Industry), General Mills, Inc., \$19,655, "Flour Safety: An Industry Collaboration Proposal for K-State Studies to Advance the Development of a Commercially Applied Antimicrobial Intervention [Study 1a)1]."

Smith, Gordon L., Grain Elevator & Processing Society, \$182,189, "GEAPS~KSU MOU 3.0."

Stark, Charles, Beyer, R. Scott (Animal Sciences and Industry), and **Paulk, Chad B.**, Illinois Soybean Association, \$426, "Evaluation of Soybean Meal from Illinois Soybeans."

Stark, Charles, Paulk, Chad B., and **Tokach, Michael D.** (Animal Sciences and Industry), Syngenta Seeds, Inc., \$900, "Evaluation of Pelleting of High Amylase Corn on Starch Gelatinization."

Stark, Charles, DeRouchey, Joel M. (Animal Sciences and Industry), Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D. (Animal Sciences and Industry), Paulk, Chad B., Tokach, Michael D. (Animal Sciences and Industry), and Woodworth, Jason C. (Animal Sciences and Industry), Syngenta Seeds, Inc., \$6,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Grow-finish Pigs."

HORTICULTURE AND NATURAL RESOURCES

Ebert, Kerri L., and **Hadley, Gregg L.** (Director of Cooperative Extension), University of Minnesota, \$65,000, "Kansas SARE 2019-2020 PDP Plan of Work."

Fry, Jack D., US Golf Association, Inc., \$3,500, "Evaluation of Experimental Bermudagrasses in Kansas."

Griffin, Jason, Kansas Department of Agriculture, \$100,000, "Monitoring Soil Moisture and Irrigation Requirements for Industrial Hemp Production in Kansas."

Hoyle, Jared, Support Funds, \$62,000, "AHF Support Funds Research 0."

NORTHWEST RESEARCH EXTENSION CENTER

Aiken, Robert M., The Land Institute, \$10,100, "Water Productivity and Genetic Variation of Silghium Integrifollum."

PLANT PATHOLOGY

Cook III, David E., Kennelly, Megan, and **Mehra, Lucky K.**, US Department of Agriculture, \$76,134, "Pathways to Plant Health through Integrated FACt-driven Research and Extension Internships."

Jardine, Douglas J., Ciampitti, Ignacio (Agronomy), Duncan, Stewart R. (Northeast Area Office), Knapp, Mary C. (Agronomy), McCornack, Brian P. (Entomology), O'Brien, Daniel M. (Northwest Area Office), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, \$1,375, "Improving Soybean Yields by Enhancing Seed Filling."

Kennelly, Megan, Cook III, David E., and **Mehra, Lucky K.**, US Department of Agriculture, \$190,336, "Pathways to Plant Health through Integrated FACt-driven Research and Extension Internships."

Leslie, John F., International Institute for Tropical Agriculture, \$18,656, "Collaboration Agreement."

Little, Christopher R., Adee, Eric A. (Agronomy), and **Schapaugh Jr, William T.** (Agronomy), Kansas Soybean Commission, \$33,958, "Investigating SDS and Fusarium Root Rot Resistance, Preventive Seed Treatments, and Pathogen Variability in Kansas."

Little, Christopher R., Lin, Xiaomao (Agronomy), **Roozeboom, Kraig L.** (Agronomy), and **Sassenrath, Gretchen F.** (Southeast Agricultural Research Center), Kansas Soybean Commission, \$13,774, "Soybean Production Systems to Control Charcoal Rot and Other Soil-borne Diseases."

Mehra, Lucky K., Cook III, David E., and Kennelly, Megan, US Department of Agriculture, \$114,201, "Pathways to Plant Health through Integrated FACt-driven Research and Extension Internships."

Todd, Timothy C., Schapaugh Jr, William T. (Agronomy), and **Trick, Harold N.**, Kansas Soybean Commission, \$55,000, "Integrating Germplasm Evaluation, Genetic Engineering, Breeding and High-Throughput Phenotyping to Improve Sustainability of Soybean Production."

Trick, Harold N., Schapaugh Jr, William T. (Agronomy), and **Todd, Timothy C.**, Kansas Soybean Commission, \$25,000, "Integrating Germplasm Evaluation, Genetic Engineering, Breeding and High-Throughput Phenotyping to Improve Sustainability of Soybean Production."

SOUTHEAST AGRICULTURAL RESEARCH CENTER

Sassenrath, Gretchen F., Lin, Xiaomao (Agronomy), Little, Christopher R. (Plant Pathology), and Roozeboom, Kraig L. (Agronomy), Kansas Soybean Commission, \$13,774, "Soybean Production Systems to Control Charcoal Rot and Other Soil-borne Diseases."

Sweeney, Daniel W., Ciampitti, Ignacio (Agronomy), Duncan, Stewart R. (Northeast Area Office), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, \$4,333, "Assessment of Soil Potassium Bioavailability and Improving Diagnostics Tools for K Management on Soybean in Kansas."

COLLEGE OF ARTS AND SCIENCES

BIOLOGY

Dodds, Walter K., Rice, Charles W. (Agronomy), and **Zeglin, Lydia H.**, Kansas Board of Regents, \$5,000, "RII Track-1: Microbiomes of Aquatic, Plant and Soil Systems Across Kansas."

Spooner, Brian S., Kansas State University Foundation, \$47,058, "Biology Summer Graduate Fellowships."

Spooner, Brian S., Kansas State University Foundation, \$6,500, "Cancer Center Research Awards."

Spooner, Brian S., Support Funds, \$500, "OBO Biology Student Research Awards."

Zeglin, Lydia H., Dodds, Walter K., and **Rice, Charles W.** (Agronomy), Kansas Board of Regents, \$2,500, "RII Track-1: Microbiomes of Aquatic, Plant and Soil Systems Across Kansas."

CHEMISTRY

Aakeroy, Christer B., US Department of Defense, \$43,750, "Theory and Experiment of Cocrystals: Principles, Synthesis and Properties."

Aikens, Christine M., US Department of Energy, \$119,697, "Elucidating the Mechanism of Plasmon-Mediated Photocatalysis using Electron Dynamics Calculations."

Higgins, Daniel A., and **Ito, Takashi**, US Department of Energy, \$94,161, "SISGR: Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores."

Ito, Takashi, and **Higgins, Daniel A.**, US Department of Energy, \$94,161, "SISGR: Molecular-Level Investigation of Diffusion Behaviors within Cylindrical Nanoscale Pores."

HISTORY

Graff, David A., and **Taber, Charles** (Office of the Provost), Kansas State University Foundation, \$24,068, "Pickett Chair."

Krysko, Michael, Kansas State University Foundation, \$2,836, "Kenneth Davis Professorship."

PHYSICS

Berg, Matthew J., National Science Foundation, \$187,986, "CAREER: In Situ Study of Aerosol in the Coarse Mode with Digital Holography."

Bolton, Timothy A., US Department of Energy, \$700,673, "Deep Underground Neutrino Experiment (DUNE)."

Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Kaadze, Ketino, Maravin, Yurii, Ratra, Bharat, and Samushia, Lado, US Department of Energy, \$130,200, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

Horton-Smith, Glenn A., Bolton, Timothy A., Ivanov, Andrew G., Kaadze, Ketino, Maravin, Yurii, Ratra, Bharat, and Samushia, Lado, US Department of Energy, \$148,800, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

Ivanov, Andrew G., National Science Foundation, \$103,826, "U.S. CMS Operations at the Large Hadron Collider."

Ivanov, Andrew G., Bolton, Timothy A., Horton-Smith, Glenn A., Kaadze, Ketino, Maravin, Yurii, Ratra, Bharat, and Samushia, Lado, US Department of Energy, \$130,200, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

Kaadze, Ketino, US Department of Energy, \$146,477, "High Luminosity (HL) LHC CMS Detector Upgrade Project, Endcap Calorimeter - FY19."

Kaadze, Ketino, Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Maravin, Yurii, Ratra, Bharat, and Samushia, Lado, US Department of Energy, \$130,200, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

Maravin, Yurii, Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Kaadze, Ketino, Ratra, Bharat, and Samushia, Lado, US Department of Energy, \$130,200, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

Ratra, Bharat, Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Kaadze, Ketino, Maravin, Yurii, and Samushia, Lado, US Department of Energy, \$130,200, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

Samushia, Lado, Bolton, Timothy A., Horton-Smith, Glenn A., Ivanov, Andrew G., Kaadze, Ketino, Maravin, Yurii, and Ratra, Bharat, US Department of Energy, \$130,200, "Research at Kansas State University into the Basic Nature of Matter, Energy, Space, and Time."

POLITICAL SCIENCE

Flynn, Michael, and **Martinez, Carla**, US Department of Defense, \$13,291, "The Political, Economic, and Social Effects of America's Overseas Military Presence."

Martinez, Carla, and Flynn, Michael, US Department of Defense, \$13,291, "The Political, Economic, and Social Effects of America's Overseas Military Presence."

COLLEGE OF EDUCATION

DEAN OF EDUCATION

Havlicek, Barbara J., Kansas Foundation for Agriculture in the Classroom, \$60,415, "Kansas Foundation for Ag in the Classroom."

COLLEGE OF ENGINEERING

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Bigham, Kari A., and **Moore, Trisha L.**, US Fish and Wildlife Service, \$3,000, "King's Creek Watershed Modeling."

Hutchinson, Stacy L., and **Derby, Melanie M.** (Mechanical and Nuclear Engineering), National Science Foundation, \$7,200, "EPRI: Flexible Flapping Surfaces for Water Collection and Condensation."

Moore, Trisha L., and **Bigham, Kari A.**, US Fish and Wildlife Service, \$3,000, "King's Creek Watershed Modeling."

Sharda, Ajay, and **Ciampitti, Ignacio**, Deere & Company, \$183,089, "Precision Planting System with Hydraulic Downforce Technology for Seed Placement Uniformity."

COMPUTER SCIENCE

Hatcliff, John M., and **Robby, -**, US Department of Defense, \$30,000, "Cyber Assured Systems Engineering (CASSE): Architecture Information Flow Analysis and Translation for High-Assurance Embedded Systems with Separation Kernels."

Hatcliff, John M., and **Robby, -**, US Department of Defense, \$5,000, "GUMBO: Grand Unified Modeling of Behavior Operators SBIR Phase I."

Robby, -, and **Hatcliff, John M.**, US Department of Defense, \$45,000, "Cyber Assured Systems Engineering (CASSE): Architecture Information Flow Analysis and Translation for High-Assurance Embedded Systems with Separation Kernels."

Robby, -, and **Hatcliff, John M.**, US Department of Defense, \$5,000, "GUMBO: Grand Unified Modeling of Behavior Operators SBIR Phase I."

ELECTRICAL AND COMPUTER ENGINEERING

Shadmand, Mohammad B., Qatar Foundation, \$9,000, "1-MW PV Power RD&D Using SiC-based qZS Cascade Multilevel Inverter and Battery Energy Storage."

INSTITUTE FOR ENVIRONMENTAL RESEARCH

Eckels, Steven J., Support Funds, \$11,460, "Evaluation of Human Thermal Comfort and Textile Properties."

Eckels, Steven J., Support Funds, \$1,394, "Thermal Properties of Textile Products."

KANSAS INDUSTRIAL EXTENSION SERVICES

Ladd, Lynelle M., and **Larson, Nancy J.**, US Environmental Protection Agency, \$37,709, "Kansas Hospitals for a Healthy Environment."

Larson, Nancy J., and **Ladd, Lynelle M.**, US Environmental Protection Agency, \$87,987, "Kansas Hospitals for a Healthy Environment."

MECHANICAL AND NUCLEAR ENGINEERING

Betz, Amy R., and **Derby, Melanie M.**, National Aeronautics and Space Administration, \$10,266, "Humans in Space: A Workshop for Middle School STEM Teachers."

Derby, Melanie M., and **Betz, Amy R.**, National Aeronautics and Space Administration, \$10,266, "Humans in Space: A Workshop for Middle School STEM Teachers."

Derby, Melanie M., and **Hutchinson, Stacy L.** (Biological and Agricultural Engineering), National Science Foundation, \$40,797, "EPRI: Flexible Flapping Surfaces for Water Collection and Condensation."

McGregor, Douglas S., and **Shultis, J. Kenneth**, Defense Threat Reduction Agency, \$144,489, "Reconfigurable Wearable Detection Device (RWD)."

McGregor, Douglas S., and Roberts, Jeremy A., US Department of Energy, \$65,000, "Micro-Pocket Fission Detector."

McNeil, Walter J., US Department of Defense, \$175,000, "Radiological Systems Research for Detection, Localization, and Isotope Identification."

Roberts, Jeremy A., and **McGregor, Douglas S.**, US Department of Energy, \$65,000, "Micro-Pocket Fission Detector."

Shultis, J. Kenneth, and **McGregor, Douglas S.**, Defense Threat Reduction Agency, \$144,489, "Reconfigurable Wearable Detection Device (RWD)."

Wang, Youqi, US Department of Defense, \$100,000, "Real Scale Numerical Simulation of Ballistic Tests for Multi-layer Fabric Body Armor."

Wei, Mingjun, US Department of Defense, \$120,000, "(YIP) A Multiscale Morphing Continuum Analysis on Energy Cascade of Compressible Turbulence."

COLLEGE OF HEALTH AND HUMAN SCIENCES

APPAREL, TEXTILES, AND INTERIOR DESIGN

Wu, Yingying, Gneiss Concepts, LLC, \$1,500, "Gneiss Concepts MOA."

FOOD, NUTRITION, DIETETICS AND HEALTH

Thiele, Ryan, and Williams, Jeffrey, Mid-America Athletic Trainers' Association (MAATA), "The Effects of

Aerobic Exercise and Peristaltic Pulse Compression on Neuromuscular Performance Following Exercise-induced Muscle Damage."

Williams, Jeffrey, and Thiele, Ryan, Mid-America Athletic Trainers' Association (MAATA), \$2,000, "The Effects of Aerobic Exercise and Peristaltic Pulse Compression on Neuromuscular Performance Following Exercise-induced Muscle Damage."

SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES

Butler, Meredith A., US Department of Agriculture, \$117,140, "4-H Military Partnerships and Outreach Support Program."

Butler, Meredith A., US Department of Agriculture, \$500,000, "CYFAR 4-H Military Partnership Professional Development and Technical Assistance Program."

COLLEGE OF VETERINARY MEDICINE

ANATOMY AND PHYSIOLOGY

Choi, Seongo, QuadMedicine, \$26,000, "Development of Flexible Microneedle Patches for Drug Delivery Through Contoured Skin Surfaces."

DeLong, Robert K., Johnson Center for Basic Cancer Research, \$1,400, "Graduate Travel Award for Johnson Center for Basic Research."

Kukanich, Stanley P., and **KuKanich, Katherine** (Clinical Sciences), Morris Animal Foundation, \$500, "Evaluation of Feline Urine Concentrations of Amoxicillin and Clavulanate (for Kallie Woodruff - VRSP Student)."

Kukanich, Stanley P., and **KuKanich, Katherine** (Clinical Sciences), Winn Feline Foundation, \$2,546, "Evaluation of Feline Urine Concentrations of Amoxicillin and Clavulanate."

Magnin, Geraldine C., Chao, Michael (Animal Sciences and Industry), and O'Quinn, Travis G. (Animal Sciences and Industry), National Cattlemen's Beef Association, \$2,700, "Utilizing Collagen Crosslinks as Markers for Sensory Improvement of Beef Shin/Shank Cuts."

Yu, Jianzhong, Kansas State University Foundation, \$25,000, "KSU Cancer Center - Innovative Research Award."

Yu, Jianzhong, Kansas State University Foundation, \$7,000, "KSU Cancer Center Summer Stipends Award."

CLINICAL SCIENCES

Harkin, Kenneth R., and **Hetrick, Merry Caitlin** (Veterinary Health Center), MYOS RENS Technology Inc, \$3,290, "Evaluation of Fortetropin on Quality of Life and Activity in Geriatric Dogs."

KuKanich, Katherine, and **Kukanich, Stanley P.** (Anatomy and Physiology), Morris Animal Foundation, \$4,500, "Evaluation of Feline Urine Concentrations of Amoxicillin and Clavulanate (for Kallie Woodruff - VRSP Student)."

KuKanich, Katherine, and **Kukanich, Stanley P.** (Anatomy and Physiology), Winn Feline Foundation, \$4,729, "Evaluation of Feline Urine Concentrations of Amoxicillin and Clavulanate."

Larson, Robert L., Amrine, David E. (Dean of Veterinary Medical Center), Pendell, Dustin L. (Agricultural Economics), Weaber, Robert L. (Animal Sciences and Industry), and White, Bradley J. (Dean of Veterinary Medical Center), American Angus Association, \$18,000, "BCI Health Knowledge Network: Monitoring Cattle Heart Syndromes."

DEAN OF VETERINARY MEDICAL CENTER

Amrine, David E., Larson, Robert L. (Clinical Sciences), Pendell, Dustin L. (Agricultural Economics), Weaber,

Robert L. (Animal Sciences and Industry), and **White, Bradley J.**, American Angus Association, \$36,000, "BCI Health Knowledge Network: Monitoring Cattle Heart Syndromes."

Dollarhide, Patricia J., and **White, Bradley J.**, National Cattlemen's Beef Association, \$158,328, "Beef Sustainability 101: A Systems Approach to Decoding Sustainability Metrics for Non-Commercial Foodservice Professionals."

White, Bradley J., Amrine, David E., Larson, Robert L. (Clinical Sciences), Pendell, Dustin L. (Agricultural Economics), and Weaber, Robert L. (Animal Sciences and Industry), American Angus Association, \$30,000, "BCI Health Knowledge Network: Monitoring Cattle Heart Syndromes."

White, Bradley J., and Dollarhide, Patricia J., National Cattlemen's Beef Association, \$17,592, "Beef Sustainability 101: A Systems Approach to Decoding Sustainability Metrics for Non-Commercial Foodservice Professionals."

DIAGNOSTIC MEDICINE/PATHOBIOLOGY

Chang, Kyeong-Ok, and **Kim, Yunjeong**, US Department of Health and Human Services, \$367,462, "Small Molecule Protease Inhibitors against MERS-CoV."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Niederwerder, Megan, Tokach, Michael D.** (Animal Sciences and Industry), and **Woodworth, Jason C.** (Animal Sciences and Industry), CEVA Biomune, \$20,045, "Effect of GleptoForte Injection Timing on Suckling, Nursery and Finish Pig Performance, Hematological Criteria and Fecal Microbiome Characteristics."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Tokach, Michael D.** (Animal Sciences and Industry), and **Woodworth, Jason C.** (Animal Sciences and Industry), Origination Inc, \$12,000, "Comparing the Effects of Different Phytase Sources on the Growth Performance and Bone Mineralization of Nursery Pigs."

Dritz, Steven S., DeRouchey, Joel M. (Animal Sciences and Industry), **Goodband, Robert D.** (Animal Sciences and Industry), **Paulk, Chad B.** (Grain Science and Industry), **Stark, Charles** (Grain Science and Industry), **Tokach, Michael D.** (Animal Sciences and Industry), and **Woodworth, Jason C.** (Animal Sciences and Industry), Syngenta Seeds, Inc., \$24,000, "Influence of Particle Size of High Amylase and Conventional Corn on Grinding Cost, Diet Flowability, and Productivity of Lactating Sows, Nursery, and Grow-finish Pigs."

Ganta, Roman Reddy R., Saint George's University, \$60,000, "Training Grant Funds Work Agreement - Postdoctoral Scholars Program (PSP) Training Grant."

Hardwidge, Philip R., and **Richt, Juergen**, Kansas Board of Regents, \$20,000, "Laser Capture Microdissection Instrumentation for the COBRE Center of Emerging and Zoonotic Infectious Diseases (EZID)."

Kim, Yunjeong, and **Chang, Kyeong-Ok**, US Department of Health and Human Services, \$367,462, "Small Molecule Protease Inhibitors against MERS-CoV."

Ma, Wenjun, and **Richt, Juergen**, US Department of Health and Human Services, \$39,149, "Host Dependence of Influenza A Virus Reassortment."

Ma, Wenjun, and **Richt, Juergen**, US Department of Health and Human Services, \$78,519, "Syndromic Surveillance of Swine Influenza Viruses in the United States."

Nguyen, Thu A., US Department of Health and Human Services, \$128,586, "Bio-active H9e Peptide Derivatives Form Novel Hydrogels."

Niederwerder, Megan, DeRouchey, Joel M. (Animal Sciences and Industry), Dritz, Steven S., Goodband, Robert D. (Animal Sciences and Industry), Tokach, Michael D. (Animal Sciences and Industry), and Woodworth, Jason C. (Animal Sciences and Industry), CEVA Biomune, \$20,045, "Effect of GleptoForte Injection Timing on Suckling, Nursery and Finish Pig Performance, Hematological Criteria and Fecal Microbiome Characteristics."

Niederwerder, Megan, Purina Animal Nutrition, LLC, \$146,900, "Investigating Viral Mitigation in Feed."

Richt, Juergen, and **Hardwidge, Philip R.**, Kansas Board of Regents, \$80,000, "Laser Capture Microdissection Instrumentation for the COBRE Center of Emerging and Zoonotic Infectious Diseases (EZID)."

Richt, Juergen, US Department of Agriculture, \$297,330, "Evaluation of Foot-and-Mouth Disease Virus Vaccine Candidates with Broad Breadth of Protection Against Diverse Virus Strains."

Richt, Juergen, and **Ma, Wenjun**, US Department of Health and Human Services, \$58,723, "Host Dependence of Influenza A Virus Reassortment."

Richt, Juergen, and **Ma, Wenjun**, US Department of Health and Human Services, \$78,519, "Syndromic Surveillance of Swine Influenza Viruses in the United States."

Rowland, Raymond R. R., PIC USA, Inc., \$25,950, "Task Order #2 - Evaluation of PDCoV Infection in ANPEP KO Pigs."

Springer, Nora L., Johnson Center for Basic Cancer Research, \$8,983, "Summer Stipend Award for Brandy Kastl."

VETERINARY DIAGNOSTIC LABORATORY

Henningson, Jamie N., US Department of Agriculture, \$500, "NAHLN FAD Testing."

VETERINARY HEALTH CENTER

Hetrick, Merry Caitlin, and **Harkin, Kenneth R.** (Clinical Sciences), MYOS RENS Technology Inc, \$3,290, "Evaluation of Fortetropin on Quality of Life and Activity in Geriatric Dogs."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND NATURAL RESOURCES

Baldwin (Blocksome), Carolyn E., US Environmental Protection Agency, \$10,000, "Kansas Flint Hills Smoke Management Plan."

Sigle, Nadine J., and **Hadley, Gregg L.** (Director of Cooperative Extension), Hansen Foundation, Dane G, \$194,250, "2019 Community Intern Program."

DIRECTOR OF COOPERATIVE EXTENSION

Hadley, Gregg L., and **Sigle, Nadine J.** (Agriculture and Natural Resources), Hansen Foundation, Dane G, "2019 Community Intern Program."

Hadley, Gregg L., and **Ebert, Kerri L.** (Horticulture and Natural Resources), University of Minnesota, \$65,000, "Kansas SARE 2019-2020 PDP Plan of Work."

Peters, Paula, and **Procter, Sandra B.** (Extension Family and Consumer Sciences), US Department of Agriculture, \$5,792, "Kansas Food Assistance Nutrition Education Plan."

EXTENSION FAMILY AND CONSUMER SCIENCES

Procter, Sandra B., and **Peters, Paula** (Director of Cooperative Extension), US Department of Agriculture, \$23,167, "Kansas Food Assistance Nutrition Education Plan."

NORTHEAST AREA OFFICE

Duncan, Stewart R., Ciampitti, Ignacio (Agronomy), Ruiz Diaz Suarez, Dorivar A. (Agronomy), and Sweeney, Daniel W. (Southeast Agricultural Research Center), Kansas Soybean Commission, \$4,333, "Assessment of Soil Potassium Bioavailability and Improving Diagnostics Tools for K Management on Soybean in Kansas."

Duncan, Stewart R., Ciampitti, Ignacio (Agronomy), Jardine, Douglas J. (Plant Pathology), Knapp, Mary C. (Agronomy), McCornack, Brian P. (Entomology), O'Brien, Daniel M. (Northwest Area Office), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, \$1,375, "Improving Soybean Yields by Enhancing Seed Filling."

NORTHWEST AREA OFFICE

O'Brien, Daniel M., Ciampitti, Ignacio (Agronomy), Duncan, Stewart R. (Northeast Area Office), Jardine, Douglas J. (Plant Pathology), Knapp, Mary C. (Agronomy), McCornack, Brian P. (Entomology), and Ruiz Diaz Suarez, Dorivar A. (Agronomy), Kansas Soybean Commission, \$4,125, "Improving Soybean Yields by Enhancing Seed Filling."

OFFICE OF THE PRESIDENT

VICE PRESIDENT FOR COMMUNICATIONS AND MARKETING

Nelson, Robert F., Country Stampede LLC, \$22,500, "Video Production Services."

OFFICE OF THE PROVOST

INTERNATIONAL PROGRAMS

Wood, Mary, US Department of State, \$135,125, "Fulbright English for Graduate Studies."

OFFICE OF THE PROVOST

Taber, Charles, and Graff, David A. (History), Kansas State University Foundation, "Pickett Chair."

VICE PRESIDENT FOR RESEARCH

OFFICE OF RESEARCH DEVELOPMENT

Marino, Mary Lou, and Montelone, Beth A., National Aeronautics and Space Administration, \$21,565, "National Space Grant College and Fellowship Program (SPACE Grant) Training Grant 2015-2018."

Montelone, Beth A., and **Marino, Mary Lou**, National Aeronautics and Space Administration, \$21,565, "National Space Grant College and Fellowship Program (SPACE Grant) Training Grant 2015-2018."

VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

KSU CHILD DEVELOPMENT CENTER, INC.

Mitchell, Rose M., US Department of Agriculture, \$500, "Spring 2017 Kansas Local Food and Gardening Sub-Grant."