

# EXTRAMURAL AWARDS

March 2019

## COLLEGE OF AGRICULTURE

### AGRICULTURAL RESEARCH CENTER-HAYS

**Kumar, Vipin**, Monsanto Company, \$4,500, "Service Order No. 63."

**Kumar, Vipin, Falk Jones, Jeanne S.** (Northwest Area Office), **O'Brien, Daniel M.** (Northwest Area Office), and **Stahlman, Phillip W.**, National Sunflower Association, \$9,100, "Influence of Rainfall on the Timing and Efficacy of PRE/POST Soil Residual Herbicides for Control of Herbicide-resistant Kochia and Palmer Amaranth."

**Stahlman, Phillip W., Falk Jones, Jeanne S.** (Northwest Area Office), **Kumar, Vipin**, and **O'Brien, Daniel M.** (Northwest Area Office), National Sunflower Association, \$1,300, "Influence of Rainfall on the Timing and Efficacy of PRE/POST Soil Residual Herbicides for Control of Herbicide-resistant Kochia and Palmer Amaranth."

**Zhang, Guorong**, US Department of Agriculture, \$48,000, "Validation, Characterization and Deployment of QTL for Grain Yield Components in Wheat - AG Research Center - Hays."

### AGRONOMY

**Alvarez Santos, Eduardo, Ciampitti, Ignacio**, and **Redmond, Christopher A.**, Kansas Corn Commission, "Updating the Kansas Mesonet for Longevity and to Improve Decision Making Tools."

**Ciampitti, Ignacio**, and **Ruiz Diaz Suarez, Dorivar A.**, Compass Minerals USA Inc., \$13,420, "ProAcqua Program for Different Winter Wheat Varieties."

**Ciampitti, Ignacio, Morris, Geoffrey**, and **Sexton-Bowser, Sarah A.** (Dean of Agriculture and Director of AES), Foundation for Food and Agriculture Research, \$249,895, "A Genome-to-Phenome (G2P) Mapping Platform to Address the Water-Limited Yield Gap."

**Ciampitti, Ignacio**, Kansas Corn Commission, \$30,000, "Corn Research and Extension."

**Ciampitti, Ignacio, Alvarez Santos, Eduardo**, and **Redmond, Christopher A.**, Kansas Corn Commission, "Updating the Kansas Mesonet for Longevity and to Improve Decision Making Tools."

**Morris, Geoffrey, Ciampitti, Ignacio**, and **Sexton-Bowser, Sarah A.** (Dean of Agriculture and Director of AES), Foundation for Food and Agriculture Research, \$499,789, "A Genome-to-Phenome (G2P) Mapping Platform to Address the Water-Limited Yield Gap."

**Redmond, Christopher A., Alvarez Santos, Eduardo**, and **Ciampitti, Ignacio**, Kansas Corn Commission, \$9,319, "Updating the Kansas Mesonet for Longevity and to Improve Decision Making Tools."

**Roozeboom, Kraig L.**, National Crop Insurance Services, \$22,000, "Unrestricted Gift."

**Ruiz Diaz Suarez, Dorivar A.**, and **Ciampitti, Ignacio**, Compass Minerals USA Inc., \$31,313, "ProAcqua Program for Different Winter Wheat Varieties."

**Ruiz Diaz Suarez, Dorivar A.**, SABIC Global Technologies B.V., \$76,935, "Urea Calcium Sulfate (UCS) Evaluation for its Effect on Wheat Growth and Yield as Influenced by its Nitrogen-Use-Efficiency."

## **ANIMAL SCIENCES AND INDUSTRY**

**Amamcharla, Jayendra K.**, Dairy Management, Inc., \$22,081, "Understanding the Effects of Various Intrinsic and Extrinsic Factors on the Stability of Lactose-Rich Co-products."

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

**Amamcharla, Jayendra K.**, Midwest Dairy Association, \$16,500, "Rapid Determination of Emulsification in Process Cheese Prior to Cooling."

**DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Tokach, Michael D.**, and **Woodworth, Jason C.**, National Pork Board, \$14,721, "Improving Performance of Finishing Pigs with Supplemental Val, Ile, and Trp: Validating a Meta-Analysis Model."

**DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D., Tokach, Michael D.**, and **Woodworth, Jason C.**, Purco, \$5,400, "PURCO Project."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Tokach, Michael D.**, and **Woodworth, Jason C.**, National Pork Board, \$14,721, "Improving Performance of Finishing Pigs with Supplemental Val, Ile, and Trp: Validating a Meta-Analysis Model."

**Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Tokach, Michael D.**, and **Woodworth, Jason C.**, Purco, \$5,400, "PURCO Project."

**Jones, Cassandra K., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), and **Woodworth, Jason C.**, Purina Animal Nutrition, LLC, \$10,137, "Assessing the Effects of MCFA on PEDV Quantity and Infectivity-Phase 3 Bioassay."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Woodworth, Jason C.**, National Pork Board, \$14,721, "Improving Performance of Finishing Pigs with Supplemental Val, Ile, and Trp: Validating a Meta-Analysis Model."

**Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Woodworth, Jason C.**, Purco, \$5,400, "PURCO Project."

**Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, National Pork Board, \$14,721, "Improving Performance of Finishing Pigs with Supplemental Val, Ile, and Trp: Validating a Meta-Analysis Model."

**Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), **Goodband, Robert D.**, and **Tokach, Michael D.**, Purco, \$5,400, "PURCO Project."

**Woodworth, Jason C., Dritz, Steven S.** (Diagnostic Medicine/Pathobiology), and **Jones, Cassandra K.**, Purina Animal Nutrition, LLC, \$10,444, "Assessing the Effects of MCFA on PEDV Quantity and Infectivity-Phase 3 Bioassay."

## **DEAN OF AGRICULTURE AND DIRECTOR OF AES**

**Middendorf, B. Jan**, and **Pagadala, Venkata**, Acharya N.G. Ranga Agricultural University, \$90,090, "Capacity Building of Students of Acharya N.G. Ranga Agricultural University at Kansas State University."

**Pagadala, Venkata**, and **Middendorf, B. Jan**, Acharya N.G. Ranga Agricultural University, \$90,090, "Capacity Building of Students of Acharya N.G. Ranga Agricultural University at Kansas State University."

**Pagadala, Venkata**, and **Stewart, Zachary P.**, US Agency for International Development, \$5,000, "Enhancing Resilience and Nutrition in the Peanut Basin of Senegal through Integration of Newly Release, Improved Cowpea Varieties."

**Pagadala, Venkata**, and **Lilja, Nina K.** (International Agricultural Programs), US Agency for International Development, \$4,650,000, "Innovation Lab on Sustainable Intensification."

**Sexton-Bowser, Sarah A.**, **Ciampitti, Ignacio** (Agronomy), and **Morris, Geoffrey** (Agronomy), Foundation for Food and Agriculture Research, \$249,895, "A Genome-to-Phenome (G2P) Mapping Platform to Address the Water-Limited Yield Gap."

**Stewart, Zachary P.**, and **Pagadala, Venkata**, US Agency for International Development, \$45,000, "Enhancing Resilience and Nutrition in the Peanut Basin of Senegal through Integration of Newly Release, Improved Cowpea Varieties."

### **GRAIN SCIENCE AND INDUSTRY**

**Aldrich, Greg**, and **Dhakal, Janak**, Kerry Inc., \$97,563, "Evaluation of Antimycotic and Acaricidal Effects of Liquid Smoke Preparations in Semi-moist Pet Food."

**Dhakal, Janak**, and **Aldrich, Greg**, Kerry Inc., "Evaluation of Antimycotic and Acaricidal Effects of Liquid Smoke Preparations in Semi-moist Pet Food."

**Paulk, Chad B.**, and **Stark, Charles**, Intrexon Corporation, \$76,000, "Intrexon Nursery Pig Study."

**Stark, Charles**, and **Paulk, Chad B.**, Intrexon Corporation, \$4,000, "Intrexon Nursery Pig Study."

**Zheng, Yi**, National Science Foundation, \$501,800, "CAREER: Unravel the Nature Behind the Smart Polymer-Induced Microalgal Biomass Enrichment and Cell Wall Disruption."

### **HORTICULTURE AND NATURAL RESOURCES**

**Ahlers, Adam A.**, and **Sharp, Ryan L.**, Association of Fish & Wildlife Agencies, \$2,450, "Evaluating the Promise and Potential Impacts of R3 Efforts Targeting College Students."

**Fry, Jack D.**, **Hoyle, Jared**, and **Kennelly, Megan** (Plant Pathology), Heart of America GCSA, \$2,040, "Turf Research."

**Fry, Jack D.**, **Hoyle, Jared**, and **Kennelly, Megan** (Plant Pathology), Heart of America GCSA, \$3,200, "Zoysiagrass Seedhead Development and Suppression."

**Fry, Jack D.**, **Hoyle, Jared**, and **Kennelly, Megan** (Plant Pathology), Kansas Turfgrass Foundation, \$3,200, "Zoysiagrass Seedhead Development and Suppression."

**Hoyle, Jared**, **Fry, Jack D.**, and **Kennelly, Megan** (Plant Pathology), Heart of America GCSA, \$1,980, "Turf Research."

**Hoyle, Jared**, **Fry, Jack D.**, and **Kennelly, Megan** (Plant Pathology), Heart of America GCSA, \$3,200, "Zoysiagrass Seedhead Development and Suppression."

**Hoyle, Jared**, **Fry, Jack D.**, and **Kennelly, Megan** (Plant Pathology), Kansas Turfgrass Foundation, \$3,200, "Zoysiagrass Seedhead Development and Suppression."

**Sharp, Ryan L.**, and **Ahlers, Adam A.**, Association of Fish & Wildlife Agencies, \$2,450, "Evaluating the Promise and Potential Impacts of R3 Efforts Targeting College Students."

## **INTERNATIONAL AGRICULTURAL PROGRAMS**

**Lilja, Nina K., and Pagadala, Venkata** (Dean of Agriculture and Director of AES), US Agency for International Development, "Innovation Lab on Sustainable Intensification."

## **KS CTR FOR AG RSRCES & THE ENV / KS WATER RSRCE RSRCH INST**

**Devlin, Daniel L.,** City of Hays, KS, \$12,250, "Storm Water Educational Outreach Efforts."

## **PLANT PATHOLOGY**

**Kennelly, Megan, Fry, Jack D.** (Horticulture and Natural Resources), and **Hoyle, Jared** (Horticulture and Natural Resources), Heart of America GCSA, \$1,980, "Turf Research."

**Kennelly, Megan, Fry, Jack D.** (Horticulture and Natural Resources), and **Hoyle, Jared** (Horticulture and Natural Resources), Heart of America GCSA, \$1,600, "Zoysiagrass Seedhead Development and Suppression."

**Kennelly, Megan, Fry, Jack D.** (Horticulture and Natural Resources), and **Hoyle, Jared** (Horticulture and Natural Resources), Kansas Turfgrass Foundation, \$1,600, "Zoysiagrass Seedhead Development and Suppression."

**Kennelly, Megan,** Support Funds, \$3,000, "APP Support Funds Research 0."

## **SOUTHWEST RESEARCH EXTENSION CENTER**

**Holman, Johnathon D.,** National Crop Insurance Services, \$10,000, "NCIS Gift."

# **COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN**

## **ARCHITECTURE**

**Gibson, Michael D.,** US Department of Energy, \$52,000, "Net Positive Studio-Solar Decathlon Project."

# **COLLEGE OF ARTS AND SCIENCES**

## **BIOCHEMISTRY**

**Kanost, Michael R.,** US Department of Health and Human Services, \$375,000, "Proteinase Systems in Insect Hemolymph."

## **BIOLOGY**

**Gido, Keith B.,** US Department of the Interior, \$281,786, "Population Size, Mobility, and Early Life History of Razorback Suckers in the San Juan River - Lake Powell Complex."

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

## **CHEMISTRY**

**Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Aikens, Christine M., Aakeroy, Christer B., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Bossmann, Stefan, Aakeroy, Christer B., Aikens, Christine M., Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy),

National Science Foundation, \$86,056, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Chikan, Viktor, Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Culbertson, Christopher T., Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$103,268, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Gadzikwa, Tendai, Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Higgins, Daniel A., Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Higgins, Daniel A., Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Ito, Takashi, Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Hua, Duy H.**, US Department of Health and Human Services, \$300,116, "Catalytic Asymmetric Oxidation of Alkenes and Alkanes."

**Ito, Takashi, Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Li, Jun, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Li, Jun, Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Ping, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Li, Ping, Aakeroy, Christer B., Aikens, Christine M., Bossmann, Stefan, Chikan, Viktor, Culbertson, Christopher T., Gadzikwa, Tendai, Higgins, Daniel A., Ito, Takashi, Li, Jun, and Tanona, Scott** (Philosophy), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

**Rafferty, Ryan**, National Science Foundation, \$625,000, "CAREER: Penetrating Barriers - A New Paradigm for Enhancing Molecular Transport into Complex Biological Membranes."

## **PHILOSOPHY**

**Tanona, Scott, Aakeroy, Christer B.** (Chemistry), **Aikens, Christine M.** (Chemistry), **Bossmann, Stefan** (Chemistry), **Chikan, Viktor** (Chemistry), **Culbertson, Christopher T.** (Chemistry), **Gadzikwa, Tendai** (Chemistry), **Higgins, Daniel A.** (Chemistry), **Ito, Takashi** (Chemistry), **Li, Jun** (Chemistry), and **Li, Ping** (Chemistry), National Science Foundation, \$17,211, "REU Site: Research Experiences for Undergraduates in Chemistry at Kansas State University."

## **PHYSICS**

**Ratra, Bharat**, US Department of Energy, \$42,000, "Testing Non-Flat, Dynamical Dark Energy, Inflation Models."

**Samushia, Lado**, National Aeronautics and Space Administration, \$25,080, "Constraining Dark Energy and Modified Gravity with Euclid."

## **STATISTICS**

**Hefley, Trevor**, US Department of the Interior, \$52,613, "Where Do We Look and What Should We Do: Examining the Hard Questions of Chronic Wasting Disease Management and Surveillance."

## **COLLEGE OF EDUCATION**

### **CURRICULUM AND INSTRUCTION**

**Clark, Jeffrey D.**, and **Vontz, Thomas**, US Department of Defense, \$189,599, "Troops to Teacher - Kansas Program (TTTK)."

**Levin, Lori M.**, USD 383, Manhattan, \$800, "KSU & USD 383 Nonfiction Book Trailer Project."

**Vontz, Thomas**, and **Clark, Jeffrey D.**, US Department of Defense, \$189,599, "Troops to Teacher - Kansas Program (TTTK)."

### **DEAN OF EDUCATION**

**Spears, Jacqueline D.**, and **Rowland, Raymond R. R.** (Diagnostic Medicine/Pathobiology), US Department of Agriculture, \$59,623, "Capacity Building in Animal Health through Biotechnology training for High School Science Teachers."

## **COLLEGE OF ENGINEERING**

### **COMPUTER SCIENCE**

**Hatcliff, John M.**, and **Robby, -**, US Department of Defense, \$52,634, "Architecture Translation for High-Assurance Embedded Systems with Separation Kernels."

**Prabhakar, Pavithra**, National Science Foundation, \$53,704, "CAREER: Robust Verification of Cyber-Physical Systems."

**Robby, -**, and **Hatcliff, John M.**, US Department of Defense, \$78,950, "Architecture Translation for High-Assurance Embedded Systems with Separation Kernels."

### **INDUSTRIAL AND MANUFACTURING SYSTEMS ENGINEERING**

**Lin, Dong**, National Aeronautics and Space Administration, \$3,200, "Additive Manufacturing of Reinforced Carbon-Carbon Composites by Laser Assisted Laminated Object Manufacturing (LA-LOM)."

### **KANSAS INDUSTRIAL EXTENSION SERVICES**

**Carter, David A.**, US Department of Energy, \$50,000, "KCC and Kansas State University."

### **MECHANICAL AND NUCLEAR ENGINEERING**

**Bahadori, Amir**, and **McNeil, Walter J.**, Radiation Detection Technologies, Inc., \$31,446, "X-DSMSND: A Dual-Sided Microstructured Semiconductor Neutron Detector with Integrated Pixel Read-Out."

**Hosni, Mohammad H.**, US Department of Energy, \$7,500, "Nuclear Energy University Programs Fellowship and Scholarship Support."

**McNeil, Walter J.**, and **Bahadori, Amir**, Radiation Detection Technologies, Inc., \$31,446, "X-DSMSND: A Dual-Sided Microstructured Semiconductor Neutron Detector with Integrated Pixel Read-Out."

**Singh, Gurpreet**, National Science Foundation, \$875,721, "PIRE: High Temperature Ceramic Fibers: Polymer-based Manufacturing, Nanostructure, and Performance."

**Wei, Mingjun**, Powers & Zahr Consortium Management Co LLC, \$2,000, "Support of B-52 Re-Engine Program."

## COLLEGE OF HUMAN ECOLOGY

### APPAREL, TEXTILES, AND INTERIOR DESIGN

**LeHew, Melody L. A.**, **Dollarhide, Patricia J.** (Dean of Veterinary Medical Center), **Kwon, Junehee** (Hospitality Management), and **White, Bradley J.** (Dean of Veterinary Medical Center), US Department of Agriculture, \$6,000, "Connecting Supply Chain Through Sustainability: Initiating A Multi-Disciplinary Multi-Industry Approach Using the Case of Beef Cattle."

### FOOD, NUTRITION, DIETETICS AND HEALTH

**Rosenkranz, Richard R.**, US Department of Agriculture, \$22,663, "Dissemination of the Evidence-Based SWITCH Program for Childhood Obesity Prevention."

**Rosenkranz, Richard R.**, US Department of Health and Human Services, \$14,744, "Whole-of-Community Systems Intervention for Youth Population Physical Activity."

### HOSPITALITY MANAGEMENT

**Kwon, Junehee**, **Dollarhide, Patricia J.** (Dean of Veterinary Medical Center), **LeHew, Melody L. A.** (Apparel, Textiles, and Interior Design), and **White, Bradley J.** (Dean of Veterinary Medical Center), US Department of Agriculture, \$6,000, "Connecting Supply Chain Through Sustainability: Initiating A Multi-Disciplinary Multi-Industry Approach Using the Case of Beef Cattle."

## COLLEGE OF VETERINARY MEDICINE

### CLINICAL SCIENCES

**KuKanich, Katherine**, and **Rost, Caroline M.** (Dean of Veterinary Medical Center), US Department of Health and Human Services, \$4,750, "This is How We Role."

### DEAN OF VETERINARY MEDICAL CENTER

**Dollarhide, Patricia J.**, **Kwon, Junehee** (Hospitality Management), **LeHew, Melody L. A.** (Apparel, Textiles, and Interior Design), and **White, Bradley J.**, US Department of Agriculture, \$12,000, "Connecting Supply Chain Through Sustainability: Initiating A Multi-Disciplinary Multi-Industry Approach Using the Case of Beef Cattle."

**Rost, Caroline M.**, and **KuKanich, Katherine** (Clinical Sciences), US Department of Health and Human Services, \$250, "This is How We Role."

**White, Bradley J.**, **Dollarhide, Patricia J.**, **Kwon, Junehee** (Hospitality Management), and **LeHew, Melody L. A.** (Apparel, Textiles, and Interior Design), US Department of Agriculture, \$6,000, "Connecting Supply Chain Through Sustainability: Initiating A Multi-Disciplinary Multi-Industry Approach Using the Case of Beef Cattle."

### DIAGNOSTIC MEDICINE/PATHOBIOLOGY

**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), National Pork Board, \$14,721, "Improving Performance of Finishing Pigs with Supplemental Val, Ile, and Trp: Validating a Meta-Analysis Model."

**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), Purco, \$5,400, "PURCO Project."

**Dritz, Steven S., Jones, Cassandra K.** (Animal Sciences and Industry), and **Woodworth, Jason C.** (Animal Sciences and Industry), Purina Animal Nutrition, LLC, \$10,137, "Assessing the Effects of MCFA on PEDV Quantity and Infectivity-Phase 3 Bioassay."

**Faburay, Bonto, Fang, Ying, Li, Yanhua, Niederwerder, Megan,** and **Rowland, Raymond R. R.**, National Pork Board, \$9,112, "Development of ASFV-specific Monoclonal Antibodies and mAB-based Blocking ELISA."

**Fang, Ying, Faburay, Bonto, Li, Yanhua, Niederwerder, Megan,** and **Rowland, Raymond R. R.**, National Pork Board, \$54,670, "Development of ASFV-specific Monoclonal Antibodies and mAB-based Blocking ELISA."

**Li, Yanhua, Faburay, Bonto, Fang, Ying, Niederwerder, Megan,** and **Rowland, Raymond R. R.**, National Pork Board, \$9,112, "Development of ASFV-specific Monoclonal Antibodies and mAB-based Blocking ELISA."

**Morozov, Igor,** and **Richt, Juergen**, National Pork Board, \$14,941, "Efficacy of Current High-throughput Sample Processing Methods for Detection of ASFV by Real-time PCR."

**Niederwerder, Megan, Faburay, Bonto, Fang, Ying, Li, Yanhua,** and **Rowland, Raymond R. R.**, National Pork Board, \$9,112, "Development of ASFV-specific Monoclonal Antibodies and mAB-based Blocking ELISA."

**Richt, Juergen,** and **Morozov, Igor**, National Pork Board, \$84,666, "Efficacy of Current High-throughput Sample Processing Methods for Detection of ASFV by Real-time PCR."

**Richt, Juergen**, US Department of Homeland Security, \$97,583, "Develop and Verify Performance of Novel Screening, Surveillance and Diagnostic Tools."

**Rowland, Raymond R. R., Faburay, Bonto, Fang, Ying, Li, Yanhua,** and **Niederwerder, Megan**, National Pork Board, \$9,112, "Development of ASFV-specific Monoclonal Antibodies and mAB-based Blocking ELISA."

**Rowland, Raymond R. R.**, PIC North America (PIC USA, Inc.), \$37,542, "Task Order - Cell based PRRSv Challenge."

**Rowland, Raymond R. R.,** and **Spears, Jacqueline D.** (Dean of Education), US Department of Agriculture, \$89,434, "Capacity Building in Animal Health through Biotechnology training for High School Science Teachers."

#### **VETERINARY DIAGNOSTIC LABORATORY**

**Henningson, Jamie N.,** and **Lubbers, Brian**, Zoetis LLC, \$33,125, "Pathogen Investigation, Surveillance and Acquisition Collaboration Agreement."

**Lubbers, Brian,** and **Henningson, Jamie N.**, Zoetis LLC, \$33,125, "Pathogen Investigation, Surveillance and Acquisition Collaboration Agreement."

## **KANSAS COOPERATIVE EXTENSION SERVICE**

#### **NORTHWEST AREA OFFICE**

**Falk Jones, Jeanne S., Kumar, Vipin** (Agricultural Research Center-Hays), **O'Brien, Daniel M.,** and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), National Sunflower Association, \$1,300, "Influence of Rainfall on the Timing and Efficacy of PRE/POST Soil Residual Herbicides for Control of Herbicide-resistant Kochia and Palmer Amaranth."

**O'Brien, Daniel M., Falk Jones, Jeanne S., Kumar, Vipin** (Agricultural Research Center-Hays), and **Stahlman, Phillip W.** (Agricultural Research Center-Hays), National Sunflower Association, \$1,300, "Influence of Rainfall on the Timing and Efficacy of PRE/POST Soil Residual Herbicides for Control of Herbicide-resistant Kochia and Palmer Amaranth."



# **K-STATE POLYTECHNIC CAMPUS**

## **K-STATE POLYTECHNIC CAMPUS**

**Barnhart, Richard K.**, Powers & Zahr Consortium Management Co LLC, \$2,000, "B-52 Commercial Engine Replacement Program (CERP) Integration Study - Phase 1."

## **SALINA RESEARCH AND ENGAGEMENT**

**Carraway, Kurt J.**, Kansas Department of Transportation, \$6,351, "Vertical Inspection - TO2.1."

# **OFFICE OF THE PROVOST**

## **SCHOOL OF LEADERSHIP STUDIES**

**Finnegan, James M.**, and **Tolar, Mary H.**, City of Manhattan, KS, \$15,000, "City of Manhattan Leadership Academy."

**Tolar, Mary H.**, and **Finnegan, James M.**, City of Manhattan, KS, \$5,000, "City of Manhattan Leadership Academy."