EXTRAMURAL AWARDS
June 2019

COLLEGE OF AGRICULTURE

AGRICULTURAL ECONOMICS


AGRONOMY
SV, Krishna Jagadish, US Department of Agriculture, $165,000, "Influence of Environment and Plant Growth on Sorghum Grain Composition and End-use Quality."

ANIMAL SCIENCES AND INDUSTRY


Aramouni, Fadi M., Kansas Department of Agriculture, $1,482,330, "Food and Feed Value Added Program Project."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Tokach, Michael D., and Woodworth, Jason C., Biomin America Inc., $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Tokach, Michael D., and Woodworth, Jason C., Kemin Industries, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., Tokach, Michael D., and Woodworth, Jason C., NutriQuest, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."


Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Tokach, Michael D., and Woodworth, Jason C., Biomin America Inc., $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Goodband, Robert D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Tokach, Michael D., and Woodworth, Jason C., Kemin Industries, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

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Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Woodworth, Jason C., Biomin America Inc., $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Woodworth, Jason C., Kemin Industries, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Tokach, Michael D., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Woodworth, Jason C., NutriQuest, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., Biomin America Inc., $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., Kemin Industries, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Woodworth, Jason C., DeRouchey, Joel M., Dritz, Steven S. (Diagnostic Medicine/Pathobiology), Goodband, Robert D., and Tokach, Michael D., NutriQuest, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Yucel, Umut, US Department of Agriculture, $150,000, "Functional Properties of Sorghum Biomolecules Related to Human Health Benefits."

DEAN OF AGRICULTURE AND DIRECTOR OF AES
Pagadala, Venkata, and Lilja, Nina K. (International Agricultural Programs), US Agency for International Development, $750,000, "Innovation Lab on Sustainable Intensification."

ENTOMOLOGY


Zhu, Kun Yan, US Department of Agriculture, $46,475, "Acquisition of Goods and Services."

Zolnerowich, Gregory, and Zukoff, Sarah N. (Southwest Research Extension Center), Kansas Department of Wildlife and Parks, $2,500, "Proposal for a Statewide Survey of Bumble Bees (Hymenoptera, Apidae Bombus) Occurring in Kanas."

GRAIN SCIENCE AND INDUSTRY
Aldrich, Greg, and Dhakal, Janak, Fats and Proteins Research Foundation, Inc., $25,120, "The Effect of Chemical Treatments to Control Salmonella Species in Rendered Animal Fats and Oils and Determination of Survival Kinetics of Salmonella in Fats Differing in Level of Unsaturation."


Dhakal, Janak, and Aldrich, Greg, Fats and Proteins Research Foundation, Inc., $25,120, "The Effect of Chemical Treatments to Control Salmonella Species in Rendered Animal Fats and Oils and Determination of Survival Kinetics of Salmonella in Fats Differing in Level of Unsaturation."

Li, Yonghui, Ukko Inc., $35,117, "Project 1 - Identify Minimal Amounts of Gliadin, HMW and LMW Glutenin Needed for Bread Quality Dough."


INTERNATIONAL AGRICULTURAL PROGRAMS
Lilja, Nina K., and Harvey, Jagger J. (Dean of Agriculture and Director of AES), US Agency for International Development, "Feed the Future Innovation Lab for the Reduction of Post-Harvest Loss."

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

PLANT PATHOLOGY
Kennelly, Megan, US Department of Agriculture, $44,220, "Acquisition of Goods and Services."

SOUTHWEST RESEARCH EXTENSION CENTER
Zukoff, Sarah N., and Zolnerowich, Gregory (Entomology), Kansas Department of Wildlife and Parks, $7,500, "Proposal for a Statewide Survey of Bumble Bees (Hymenoptera, Apidae Bombus) Occurring in Kanas."
BIOCHEMISTRY

Geisbrecht, Brian V., and Li, Ping (Chemistry), US Department of Health and Human Services, $20,596, "Molecular Study of PHA Biosynthesis: Production of Biodegradable Polymers for Medical Applications."

Zolkiewski, Michal, US Department of Health and Human Services, $514,035, "Discovery of Hsp100-selective Inhibitors for Targeting Multiple Microbial Pathogens."

BIOLOGY

Govind, Revathi, US Department of Health and Human Services, $76,000, "Regulatory Mechanisms Controlling TcdE Production in Clostridium Difficile."

Haukos, David A., US Department of Defense, $155,441, "Response of Greater Prairie-Chickens to Natural and Anthropogenic Disturbance on Fort Riley."

Platt, Thomas G., National Science Foundation, $141,996, "Prevalence and Co-occurrence of Pathogenic and Cheater Agrobacteria on Healthy and Crown Gall Disease Infected Sunflowers."

CHEMISTRY


Bosmann, Stefan, (Psychological Sciences), Andresen, Daniel A. (Computer Science), Bailey, Heather R. (Psychological Sciences), Cain, Mary E. (Psychological Sciences), Kirkpatrick, Kimberly (Psychological Sciences), Loschky, Lester C. (Psychological Sciences), Pickens II, Charles (Psychological Sciences), and Zakrzewski, Alexandria (Psychological Sciences), US Department of Health and Human Services, $41,326, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Li, Ping, and Geisbrecht, Brian V. (Biochemistry), US Department of Health and Human Services, $100,555, "Molecular Study of PHA Biosynthesis: Production of Biodegradable Polymers for Medical Applications."

GEOLOGY

Datta, Saugata, National Science Foundation, $293,482, "Collaborative Research: The Dynamic Iron Curtain Surrounding Fluctuating Rivers and its Impacts on Arsenic Fate and Transport."

PHYSICS


Chakrabarti, Amitabha, and Sorensen, Christopher M., National Science Foundation, $41,463, "Studies of Light Scattering by Particles of Arbitrary Shape."


Flanders, Bret N., and Greenman, Loren, National Science Foundation, $87,091, "REU Site: Physics at Kansas State University - Interactions of Matter, Light and Learning."

Greenman, Loren, and Flanders, Bret N., National Science Foundation, $58,061, "REU Site: Physics at Kansas State University - Interactions of Matter, Light and Learning."
Sorensen, Christopher M., and Bosmann, Stefan (Chemistry), Carbon-2D Graphene Inc., $511,774, "Advanced Graphene Research."

Sorensen, Christopher M., and Chakrabarti, Amitabha, National Science Foundation, $96,747, "Studies of Light Scattering by Particles of Arbitrary Shape."

PSYCHOLOGICAL SCIENCES
Bailey, Heather R., , , Andresen, Daniel A. (Computer Science), Bosmann, Stefan (Chemistry), Cain, Mary E., Kirkpatrick, Kimberly, Loschky, Lester C., Pickens II, Charles, and Zakrzewski, Alexandria, US Department of Health and Human Services, $392,594, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Cain, Mary E., , , Andresen, Daniel A. (Computer Science), Bailey, Heather R., Bosmann, Stefan (Chemistry), Kirkpatrick, Kimberly, Loschky, Lester C., Pickens II, Charles, and Zakrzewski, Alexandria, US Department of Health and Human Services, $309,942, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Kirkpatrick, Kimberly, , , Andresen, Daniel A. (Computer Science), Bailey, Heather R., Bosmann, Stefan (Chemistry), Cain, Mary E., Loschky, Lester C., Pickens II, Charles, and Zakrzewski, Alexandria, US Department of Health and Human Services, $123,977, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Loschky, Lester C., , , Andresen, Daniel A. (Computer Science), Bailey, Heather R., Bosmann, Stefan (Chemistry), Cain, Mary E., Kirkpatrick, Kimberly, Pickens II, Charles, and Zakrzewski, Alexandria, US Department of Health and Human Services, $392,594, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Pickens II, Charles, , , Andresen, Daniel A. (Computer Science), Bailey, Heather R., Bosmann, Stefan (Chemistry), Cain, Mary E., Kirkpatrick, Kimberly, Loschky, Lester C., and Zakrzewski, Alexandria, US Department of Health and Human Services, $268,617, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Zakrzewski, Alexandria, , , Andresen, Daniel A. (Computer Science), Bailey, Heather R., Bosmann, Stefan (Chemistry), Cain, Mary E., Kirkpatrick, Kimberly, Loschky, Lester C., and Pickens II, Charles, US Department of Health and Human Services, $247,943, "Intergovernmental Support Agreement for Archeological Surveys and Evaluations with Kansas State University."

SCHOOL OF JOURNALISM AND MASS COMMUNICATIONS
Wolgast, Stephen L., Collegian Media Group, $55,435, "Student Publications Positions."

SOCIOLOGY, ANTHROPOLOGY, AND SOCIAL WORK
Ritterbush, Lauren W., US Department of Defense, $247,943, "Intergovernmental Support Agreement for Archeological Surveys and Evaluations with Kansas State University."

COLLEGE OF ENGINEERING

COMPUTER SCIENCE
Andresen, Daniel A., , (Psychological Sciences), Bailey, Heather R. (Psychological Sciences), Bosmann, Stefan (Chemistry), Cain, Mary E. (Psychological Sciences), Kirkpatrick, Kimberly (Psychological Sciences), Loschky, Lester C. (Psychological Sciences), Pickens II, Charles (Psychological Sciences), and Zakrzewski, Alexandria (Psychological Sciences), US Department of Health and Human Services, $82,651, "Cognitive and Neurobiological Approaches to Plasticity (C-NAP)."

Reif, Kathryn E., and KuKanich, Katherine (Clinical Sciences), Foundation for Food and Agriculture Research, $2,400, "Veterinary Student Research Fellowship for Summer of 2019."

**COLLEGE OF HEALTH AND HUMAN SCIENCES**

**DEAN OF HUMAN ECOLOGY**
Buckwalter, John, Cortez, Anita R. (Vice Provost for Undergraduate Studies), and Rosenkranz, Sara (Food, Nutrition, Dietetics and Health), US Department of Health and Human Services, $26,668, "Kansas Bridges to the Future."

**FOOD, NUTRITION, DIETETICS AND HEALTH**
Rosenkranz, Sara, Buckwalter, John (Dean of Human Ecology), and Cortez, Anita R. (Vice Provost for Undergraduate Studies), US Department of Health and Human Services, $213,346, "Kansas Bridges to the Future."

**KINESIOLOGY**
Besenyi, Gina M., Heinrich, Katie M., and Kliwer, Brandon W. (School of Leadership Studies), Engagement Scholarship Consortium, $1,040, "Manhattan, Kansas Bike-Ped Systems Plan Public Engagement Project."

Heinrich, Katie M., Besenyi, Gina M., and Kliwer, Brandon W. (School of Leadership Studies), Engagement Scholarship Consortium, $1,040, "Manhattan, Kansas Bike-Ped Systems Plan Public Engagement Project."

**SCHOOL OF FAMILY STUDIES AND HUMAN SERVICES**

Kiss, D. Elizabeth, US Department of Agriculture, $5,000, "Integrating and Sustaining Financial Capability Services in Rural Healthcare Delivery."

**COLLEGE OF VETERINARY MEDICINE**

**ANATOMY AND PHYSIOLOGY**
Coetzee, Johann F., Kleinhenz, Michael D. (Clinical Sciences), Lin, Zhoumeng, and Magnin, Geraldine C., American Association of Swine Veterinarians Foundation, $2,575, "Investigating the Plasma Pharmacokinetics and Tissue Residues of Oral Firocoxib Following Transmamary Delivery from SOWS to Piglets."

Lin, Zhoumeng, Coetzee, Johann F., Kleinhenz, Michael D. (Clinical Sciences), and Magnin, Geraldine C., American Association of Swine Veterinarians Foundation, $2,575, "Investigating the Plasma Pharmacokinetics and Tissue Residues of Oral Firocoxib Following Transmamary Delivery from SOWS to Piglets."

Magnin, Geraldine C., Coetzee, Johann F., Kleinhenz, Michael D. (Clinical Sciences), and Lin, Zhoumeng, American Association of Swine Veterinarians Foundation, $2,575, "Investigating the Plasma Pharmacokinetics and Tissue Residues of Oral Firocoxib Following Transmamary Delivery from SOWS to Piglets."

Xiong, Yulan, Parkinson's Disease Foundation, $100,000, "Understanding LRRK2 GTPase Function in Parkinson's Disease."

**CLINICAL SCIENCES**
Eshar, David, Herrin, Brian (Diagnostic Medicine/Pathobiology), Schneider, Sarah M. (Veterinary Diagnostic Laboratory), and Schwartz, Diana (Veterinary Diagnostic Laboratory), National Center for Veterinary Parasitology, $2,974, "Detection of Trypanosoma Cruzi in Triatominae Insects and Raccoons in Kansas."
Kleinhenz, Michael D., Coetzee, Johann F. (Anatomy and Physiology), Lin, Zhoumeng (Anatomy and Physiology), and Magnin, Geraldine C. (Anatomy and Physiology), American Association of Swine Veterinarians Foundation, $2,575, "Investigating the Plasma Pharmacokinetics and Tissue Residues of Oral Firocoxib Following Transmamary Delivery from SOWS to Piglets."

KuKanich, Katherine, and Reif, Kathryn E. (Computer Science), Foundation for Food and Agriculture Research, $1,600, "Veterinary Student Research Fellowship for Summer of 2019."

DEAN OF VETERINARY MEDICAL CENTER
Thomson, Daniel U., Nagaraja, Tiruvoor G. (Diagnostic Medicine/Pathobiology), and Volkova, Victoriya (Diagnostic Medicine/Pathobiology), US Department of Agriculture, $50,000, "Bacteriophage Use to Prevent Liver Abscess Caused by Fusobacterium Necrophorum: Proof of Concept Studies."

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), NutriQuest, $2,000, "Efficacy of Commercial FUM Detoxifying Products on Phase Three Nursery Pigs Fed High FUM Diet."

Herrin, Brian, Eshar, David (Clinical Sciences), Schneider, Sarah M. (Veterinary Diagnostic Laboratory), and Schwartz, Diana (Veterinary Diagnostic Laboratory), National Center for Veterinary Parasitology, $5,948, "Detection of Trypanosoma Cruzi in Triatominae Insects and Raccoons in Kansas."


Nagaraja, Tiruvoor G., Thomson, Daniel U. (Dean of Veterinary Medical Center), and Volkova, Victoriya, US Department of Agriculture, $50,000, "Bacteriophage Use to Prevent Liver Abscess Caused by Fusobacterium Necrophorum: Proof of Concept Studies."

Nguyen, Thu A., Boehringer Ingelheim, $20,000, "2019 Boehringer Ingelheim Veterinary Scholars Program."

Niederwerder, Megan, and Rowland, Raymond R. R., Kemin Industries, $106,250, "Understanding the Survivability and Infectivity of African Swine Fever Virus In Various Environments."


Rowland, Raymond R. R., and Niederwerder, Megan, Kemin Industries, $18,750, "Understanding the Survivability and Infectivity of African Swine Fever Virus In Various Environments."

Rowland, Raymond R. R., PIC USA, Inc., $60,652, "Task Order 3 - PRRSV Challenge of CD163 Modified and WT Pigs."

Rowland, Raymond R. R., and Niederwerder, Megan, Purina Animal Nutrition, LLC, $18,750, "Understanding the Survivability and Infectivity of African Swine Fever Virus In Various Environments."

Volkova, Victoriya, Nagaraja, Tiruvoor G., and Thomson, Daniel U. (Dean of Veterinary Medical Center), US Department of Agriculture, $100,000, "Bacteriophage Use to Prevent Liver Abscess Caused by Fusobacterium Necrophorum: Proof of Concept Studies."

VETERINARY DIAGNOSTIC LABORATORY
Henningson, Jamie N., US Department of Agriculture, $2,000, "NAHLN CSF and ASF Testing."

Schneider, Sarah M., Eshar, David (Clinical Sciences), Herrin, Brian (Diagnostic Medicine/Pathobiology), and Schwartz, Diana, National Center for Veterinary Parasitology, $2,974, "Detection of Trypanosoma Cruzi in Triatominae Insects and Raccoons in Kansas."

Schwartz, Diana, Eshar, David (Clinical Sciences), Herrin, Brian (Diagnostic Medicine/Pathobiology), and Schneider, Sarah M., National Center for Veterinary Parasitology, $2,974, "Detection of Trypanosoma Cruzi in Triatominae Insects and Raccoons in Kansas."

KANSAS COOPERATIVE EXTENSION SERVICE

AGRICULTURE AND NATURAL RESOURCES
Hadley, Gregg L., and Rice, Trudy M., Hansen Foundation, Dane G, $175,000, "Leading Locally - Working Together for Lasting Solutions."


FOUR-H YOUTH DEVELOPMENT


KANSAS FOREST SERVICE
Atchison, Robert L., US Department of Agriculture, $93,880, "High Resolution Land Cover and Wind Break Assessment Products of Kansas."


SOUTHWEST AREA OFFICE
Aguilar, Jonathan P., Kansas Corn Commission, $15,000, "Towards Better Understanding of Irrigation Management in Water technology Farms."

Aguilar, Jonathan P., Kansas Water Office, $10,000, "Design and Monitoring of Water Technology Farms."

K-STATE POLYTECHNIC CAMPUS
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Barnhart, Richard K., Powers & Zahr Consortium Management Co LLC, $25,000, "B-52 Commercial Engine Replacement Program (CERP) Integration Study - Phase 1."

OFFICE OF THE PRESIDENT

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Myers, Richard B., State of Kansas, $5,000,000, "National Bio and Agro-Defense Facility."

OFFICE OF THE PROVOST

OFFICE OF THE PROVOST
Taber, Charles, Kansas State University Foundation, $5,000, "Spainhour Faculty Chair for KAWSE."

SCHOOL OF LEADERSHIP STUDIES
Kliewer, Brandon W., Besenyi, Gina M. (Kinesiology), and Heinrich, Katie M. (Kinesiology), Engagement Scholarship Consortium, $2,080, "Manhattan, Kansas Bike-Ped Systems Plan Public Engagement Project."

VICE PROVOST FOR UNDERGRADUATE STUDIES
Cortez, Anita R., Buckwalter, John (Dean of Human Ecology), and Rosenkranz, Sara (Food, Nutrition, Dietetics and Health), US Department of Health and Human Services, $26,668, "Kansas Bridges to the Future."

VICE PRESIDENT FOR RESEARCH

RESEARCH VICE PRESIDENT
Dorhout, Peter K., State of Kansas, $970,000, "Global Foods System."

VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS

EDUCATIONAL AND PERSONAL DEVELOPMENT
Booker, Monshonda, National Science Foundation, $3,500, "Teaching Through Technology (T3) Alliance."
Booker, Monshonda, US Department of Education, $287,537, "Kansas State University - Salina Upward Bound."

VICE PRESIDENT FOR STUDENT LIFE AND DEAN OF STUDENTS
Bosco, Pat J., Kauffman Scholars, Inc., $8,990, "IEP Kauffman Scholars Program - ISP."
DeGroat, Arthur S., Kansas State University Foundation, $15,708, "Kansas Masons Partnership in Military and Veterans Affairs."