



DEPARTMENT OF

ANIMAL SCIENCES



Research Overview

Animal Sciences focuses on research and technology transfer for efficient and sustainable production of high quality animal products optimizing animal well-being, enhancement of the human diet, and advancement of sound environmental practices.

Our faculty has expertise in the disciplines of growth and development, nutrition, breeding and genetics, physiology, management, and animal well-being and behavior.

Research Areas

ANIMAL PRODUCTION & MANAGEMENT SYSTEMS

- Nutrient Utilization
- Environmental Stewardship
- Efficiency Production
- Food Animal Product Development
- Animal Health and Well-Being
- Improvement in Reproduction
- Genomic Selection
- Physiology
- Facility Design

GENE REGULATION, STEM CELL & DEVELOPMENTAL BIOLOGY

- Quantitative Genetics
- Genomics
- Transgenic Biology
- Comparative Animal Health & Disease

MOLECULAR ANIMAL PHYSIOLOGY & METABOLISM

- Nutrient Utilization & Partitioning
- Digestive Physiology & Absorption
- Obesity/Diabetes
- Tissue Growth Regulation
- Physiology of Reproduction & Lactation
- Meat Science and Muscle Biology

FOOD QUALITY & FOOD SAFETY

- Pre-harvest Intervention Strategies
- Microbiome Systems
- Stress and Immunology
- Enhanced Nutrient Profiling

Pictured at left from top:
Dr. Shihuan Kuang, Dr. Luiz Brito, Dr. Kola Ajuwon, Dr. Marisa Erasmus and Dr. Kara Stewart

JOHN BLANTON
DEPARTMENT HEAD

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Faculty by Research Area

Adeola, Olaiyiwola ladeola@purdue.edu Nutrition (non-ruminant)	Cheng, Heng-wei Heng-Wei.Cheng@ars.usda.gov Animal Behavior and Well-Being	Jorgensen, Matthew Matthew.Jorgensen@usda.gov Animal Well-being	Minton, Nicholas nminton@purdue.edu Beef Cattle Systems and Beef Evaluation
Ajuwon, Kolapo kajuwon@purdue.edu Adipose Biology/ Nutritional Physiology	Croney, Candace C ccroney@purdue.edu Animal Behavior and Well-Being	Karcher, Darrin M dkarcher@purdue.edu Poultry management	Neary, Mike mneary@purdue.edu Ruminant Nutrition, sheep
Allrich, Rodney D rallrich@purdue.edu Reproduction Physiology	Donkin, Shawn S sdonkin@purdue.edu Ruminant Nutrition and Physiology	Karcher, Elizabeth L ekarcher@purdue.edu Undergraduate Coordinator, Immunobiology and Nutrition Science (dairy)	Pasternak, Alex jpastern@purdue.edu Reproductive Biology
Blanton, John blantonj@purdue.edu Groth/Development/Muscle Biology	Ebner, Paul D pebner@purdue.edu Microbiology, Microbiology, Pre-harvest Food Safety	Kim, Yuan "Brad" bradkim@purdue.edu Muscle Biology and Meat Science	Plaut, Karen I kplaut@purdue.edu Endocrinology, Cell and Molecular Biology
Boerman, Jacquelyn jboerma@purdue.edu Dairy Nutrition and Management	Erasmus, Marisa A merasmus@purdue.edu Animal Behavior and Well-being	Kuang, Shihuan skuang@purdue.edu Developmental Biology	Radcliffe, J. Scott jradclif@purdue.edu Swine Nutrition and Management
Brito, Luiz F britol@purdue.edu Quantitative Genetics and Genomics	Fernandez, Marcos mfernandez@purdue.edu Small Ruminant Nutrition and Management	Lay, Donald C Jr Don.Lay@usda.gov Animal Behavior and Well-Being	Richert, Brian T brichert@purdue.edu Nutrition and Management (swine)
Cabot, Birgit K cabot@purdue.edu Reproductive Biology/Early Embryo Development	Forsyth, Dale M dforsyth@purdue.edu Nutrition (non-ruminant)	Lemenager, Ronald P rpl@purdue.edu Ruminant Nutrition and Management, Beef	Schinckel, Allan P aschinck@purdue.edu Breeding and Genetics (swine)
Cabot, Ryan A rcabot@purdue.edu Graduate Coordinator Molecular Biology and Reproductive Physiology	Fraley, Greg gfraley@purdue.edu Poultry Neuroendocrinology and welfare	Machaty, Zoltan zmachaty@purdue.edu Reproductive Physiology and Developmental Biology	Schoonmaker, Jon P jschoonm@purdue.edu Beef cattle nutrition
Casey, Theresa M theresa-casey@purdue.edu Mammary development and neoplasia, regulation of lactation	Johnson, Jay S jay.johnson2@usda.gov Stress and Nutritional Physiology	Markworth, James jmarkwor@purdue.edu Muscle Biology	Stewart, Kara R krstewart@purdue.edu Reproductive Physiology
	Johnson, Timothy john2185@purdue.edu Food Animal Microbiome, Microbial Ecology	Mathew, Alan G agmathew@purdue.edu Intestinal Microbiology, Pre-Harvest Food Safety	Zuelly, Stacy M.S. szuelly@purdue.edu Meat Science