

NAME	DEPARTMENT	RESEARCH AREA	CONTACT INFORMATION
Hossam Abdelhamed, BVMS, MS, PhD 	MSU-CVM Basic Sciences	Bacterial pathogenesis, aquatic animal health, molecular microbiology, antimicrobial resistant	662-325-1125; abdelhamed@cvm.msstate.edu
Todd Archer MS, DVM 	MSU-CVM Clinical Sciences	Small animal internal medicine; pharmacodynamic monitoring of T cells in response to immunosuppressive drugs	662-325-1226; tarcher@cvm.msstate.edu
Cooper Brookshire MS, DVM 	MSU-CVM Clinical Sciences	Shelter medicine; wildlife/ecology; antimicrobial resistance	662-325-3432; c.brookshire@msstate.edu
Christine Calder, DVM 	MSU-CVM Clinical Sciences	Teaching/Clinics; Aggression in dogs, inappropriate elimination in cats, behavior in shelter setting, preventative behavior medicine, low stress handling, and animal welfare	662-325-1351; ahcadmissions@cvm.msstate.edu

Russell Carr MS, PhD	MSU-CVM Basic Sciences	Toxicology/behavior and cognitive function; effects of agricultural chemicals and endocrine disrupting chemicals on the developing nervous system with emphasis on effects on behavior and cognitive function and on appropriate neurotransmitter system development.	662-325-1039; rlcarr@cvm.msstate.edu
			
Jan Chambers, PhD	MSU-CVM Basic Sciences	Biochemical and environmental toxicology; mechanism of action and biotransformation of neurotoxicants; neurochemical and behavioral effects of anticholinesterase insecticides; metabolism of insecticides and other xenobiotics; pesticide exposure assessment; developmental neurotoxicity	662-325-1255; chambers@cvm.msstate.edu
			
Cody Coyne, DVM, PhD, DACVIM	MSU-CVM Basic Sciences	Molecular pharmacology and immunology	662-325-1120; coyne@cvm.msstate.edu
			
Jean M.N. Feugang, MS, PhD	MSU Animal & Dairy Sciences	Large animal reproduction; biology of mammalian gametes and embryos; post-collection semen manipulation; non-invasive luminescence and fluorescence bioimaging; nanotechnology in animal production, reproduction and disease prevention	662-325-7567; jn181@msstate.edu http://www.ads.msstate.edu/associate.asp?id=106
			

<p>Nick Fitzkee, PhD</p> 	<p>MSU Chemistry</p>	<p>Protein structure and function; Specific projects include (1) determining protein-nanoparticle surface interactions as a model for bacterial biofilm formation, and (2) exploring elastin-like polypeptides (ELPs) as a drug delivery system</p>	<p>662-325-1288; nfitzkee@chemistry.msstate.edu http://fitzkee.chemistry.msstate.edu/</p>
<p>Pat Gaunt, DVM, PhD</p> 	<p>MSU-CVM Pathobiology & Population Medicine</p>	<p>Aquatic pharmacology and toxicology; antimicrobial susceptibility</p>	<p>662-686-3237; gaunt@cvm.msstate.edu</p>
<p>Matt Griffin, PhD</p> 	<p>MSU-CVM Pathobiology & Population Medicine</p>	<p>Aquatic animal health; molecular diagnostics, environmental pathogen detection, parasitology, microbiology</p>	<p>662-686-3580; matt.griffin@msstate.edu</p>
<p>Larry Hanson, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Molecular virology and the application of molecular biology to investigate fish health problems associated with aquaculture</p>	<p>662-325-1202; hanson@cvm.msstate.edu</p>

<p>Trey Howell, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Environmental toxicology; role of organochlorine bioaccumulation in development of type 2 diabetes; cardiovascular toxicology</p>	<p>601-420-4707; howell@cvm.msstate.edu</p>
<p>Barbara Kaplan, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Mechanisms of immunotoxicology; immune responsiveness in the nervous system and neuroimmune interactions using an autoimmune model of multiple sclerosis; mechanisms of immune response to environmental contaminants</p>	<p>662-325-1113; bkaplan@cvm.msstate.edu</p>
<p>Attila Karsi, MS, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Infectious diseases and functional genomics; bacterial pathogenesis; food safety</p>	<p>662-325-1130; karsi@cvm.msstate.edu</p>
<p>Jonas King, PhD</p> 	<p>MSU Biochemistry, Molecular Biology, Entomology and Plant Patholog</p>	<p>Host-pathogen interactions and arthropod disease vectors, primarily related to malaria (<i>Plasmodium</i>) parasites and mosquito vectors; development of novel molecular diagnostics for plant and animal diseases</p>	<p>662-325-7740; jonas.king@msstate.edu http://kinglab.bch.msstate.edu/</p>

<p>Mark Lawrence, DVM, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Bacterial pathogenesis; food safety; comparative genomics, functional genomics, molecular biology, and host models to study pathogenesis of fish bacterial pathogens (e.g. <i>Edwardsiella ictaluri</i>, <i>Aeromonas hydrophila</i>, <i>Flavobacterium columnare</i>), as well as the food pathogen, <i>Listeria monocytogenes</i></p>	<p>662-325-1205; lawrence@cvm.msstate.edu</p>
<p>Bindu Nanduri, MS, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Bacterial pathogenesis and genomics; role of polyamines and iron responsive genes in pneumococcal (<i>Streptococcus pneumoniae</i>) pathogenesis and virulence; development of computational resources for host-pathogen interactions for agricultural species</p>	<p>662-325-5859; bnanduri@cvm.msstate.edu</p>
<p>Raj Prabhu, PhD</p> 	<p>MSU Ag and Biomedical Engineering</p>	<p>Bio-inspired design; targeted cancer drug delivery</p>	<p>662-325-3282; rprabhu@abe.msstate.edu http://www.abe.msstate.edu/people/faculty/raj-prabhu/</p>
<p>Stephen Pruett, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Mechanisms of immunomodulation by drugs and chemicals with particular emphasis on the role of neuroendocrine mediators; mathematical/statistical modeling of immune function.</p>	<p>662-325-6653; pruett@cvm.msstate.edu</p>

<p>Matt Ross, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Biochemistry; role of carboxylesterases in xenobiotic and lipid metabolism, and in relation to inflammation and disease (specifically atherosclerosis) progression; characterization of serine hydrolases involved degradation of lipids, esp. endocannabinoids</p>	<p>662-325-5482; mross@cvm.msstate.edu</p>
<p>T. Graham Rosser, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Characterization of parasites of farmed fish and selected wildlife specific using molecular and classical parasitology techniques; specific interests in fish myxozoan and trematode parasites</p>	<p>662-325-0167; graham.rosser@msstate.edu</p>
<p>Peter Ryan, MS, PhD</p> 	<p>MSU Animal & Dairy Sciences and MSU-CVM Pathobiology & Population Medicine</p>	<p>Reproductive physiology and theriogenology</p>	<p>662-325-3742; pryan@ads.msstate.edu http://www.cvm.msstate.edu/faculty/ryan_peter.html</p>
<p>Keun Seok Seo, DVM, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Bacteriology and host response; specific interests in <i>Staphylococcus aureus</i> superantigens</p>	<p>662-325-1419; seo@cvm.msstate.edu</p>

<p>David Smith, DVM, PhD</p> 	<p>MSU-CVM Pathobiology & Population Medicine</p>	<p>Epidemiology; Use of field epidemiology to discover how beef cattle production-systems can be modified to improve the health, well-being, and productivity of cattle, and benefit human and environmental health</p>	<p>662-325-1344; dsmith@cvm.msstate.edu</p>
<p>Betsy Swanson, MS, DVM</p> 	<p>MSU-CVM Clinical Sciences</p>	<p>Soft tissue surgery; wound care; minimally invasive surgery; chronic biofilm infections</p>	<p>662-325-3712; eswanson@cvm.msstate.edu</p>
<p>Justin Thornton, PhD</p> 	<p>MSU Biological Sciences</p>	<p>Pathogenesis of <i>Streptococcus pneumoniae</i>, including role of bacterial toxins, metal-binding surface proteins, colonization and invasive disease, as well as regulation of innate immunity in pneumococcal disease</p>	<p>662-325-8020; thornton@biology.msstate.edu www.pneumolab.com</p>
<p>Andrea Varela-Stokes, DVM, PhD</p> 	<p>MSU-CVM Basic Sciences</p>	<p>Parasitology; vector-borne disease; tick-<i>Rickettsia</i>-vertebrate host interactions; wildlife parasitology and other tick-borne pathogen systems</p>	<p>662-325-1345; stokes@cvm.msstate.edu;</p>

**Chinling Wang, MS, DVM,
PhD**



MSU-CVM
Basic Sciences

Microbiology specifically related to food-borne pathogens, gut health in chickens, necrotic enteritis in chickens, probiotics, and bacterial pathogenesis

662-325-1683;
wang@cvm.msstate.edu

Kim Woodruff, MS, DVM



MSU-CVM;
Pathobiology &
Population Medicine
Clinical Sciences

Shelter medicine; epidemiology;
disease control in shelter
populations

662-325-0448;
kwoodruff@cvm.msstate.edu;

Amelia Woolums, DVM, PhD



MSU-CVM
Pathobiology &
Population Medicine

Respiratory disease of cattle and calves; immunity & vaccinology in cattle & calves; infectious diseases of large animals

662-325-2361;
amelia.woolums@msstate.edu