College of Veterinary Medicine

Biomedical and Diagnostic Sciences

Abouelkhair, Mohamed, DVM, MS, PhD, DACVM, CABMM
mabouelk@tennessee.edu
Research Interests: Microbial bioinformatics; development of new molecular assays for detection of existing and emerging infectious disease; immunology

Dennis, Michelle, DVM
mdenni12@utk.edu
Research Interests: Pathogenesis and diagnosis of natural disease, with special interest in aquatic animals and wildlife

Donnell, Robert, DVM, PhD, DACVP
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Research Interests: Pathogenesis of amyloid formation, deposition and clearance via use of transgenic models, development of antibodies and clinical evaluation of novel approaches

Fecteau, Kellie, MS, PhD
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Research Interests: Clinical endocrinology

Flatland, Bente, DVM, MS, DACVIM, DACVP
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Research Interests: Clinical pathology quality management, method validation/comparison, point-of-care testing, coagulation, hematology, chemistry of stains and staining, diagnostic cytology

Gerhold, Richard, DVM, MS, PhD
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Research Interests: Wildlife and public health-associated parasite epidemiology; protozoa and tick-borne diseases

Giori, Luca, DVM, PhD
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Research Interests: All aspects of laboratory medicine, with a specific interest in diagnostic of adrenal endocrinopathies

Kania, Stephen, MS, PhD
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Research Interests: Immunology and diagnosis of infectious diseases, microbial molecular diversity, and mechanisms of bacterial virulence

Miller, Debra, DVM, MS, PhD
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Research Interests: Amphibian diseases; Leatherback sea turtle and marine and Arctic mammal pathology

Neelakanta, Girish, PhD
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Research Interests: Vector-borne diseases and molecular aspects of host-pathogen interactions, development of transmission-blocking vaccines, microbiology, infectious diseases, vector biology

Newkirk, Kim, DVM, PhD, DACVP
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Research Interests: Mouse models of human disease; mouse phenotyping

Odoi, Agricola, BVM, MSc, PhD, FAHA, FACE
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Research Interests: Applications of GIS & spatial epidemiology in health research & practice; zoonotic infections of public health significance; determinants of population health

Okafor, Chika, DVM, MS, PhD
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Research Interests: Qualitative veterinary epidemiology and public health; food safety in foods of animal origin

Rajeev, Sree, DVM
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Research Interests: Microbiology, epidemiology, host pathogen interaction, diagnosis and prevention of Leptospira infection in animals, diagnostics and vaccine development for *Ehrlichia canis* and *Anaplasma platys* infection in dogs

Reed, Robert, DVM, PhD
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Research Interests: Nutritional regulation of LHRH and LH secretion and effects on the reproductive axis; Macroscopic and applied anatomy of domestic and exotic species

Rouse, Barry, DVM, MSc, PhD
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Research Interests: Comparative cellular and molecular immunology; viral infection diseases

Schaefer, Deanna, DVM, MS, DACVP
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Research Interests: Hematopathology; comparative hematology; iron metabolism

Souza, Marcy, DVM, MPH, DABVP, DACVPM
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Research Interests: Infectious diseases; zoonoses of wildlife and exotic pets

Sultana, Hameeda, PhD
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Research Interests: Arthropod-derived exosomes in mediating flavivirus transmission, vector-borne viral diseases involving flaviviruses, identifying and characterizing novel therapeutic agents or targets to treat pan-flaviviral infections in humans and animals

Thompson, Sharon, DVM, MPH
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Research Interests: Food safety and defense
Large Animal Clinical Sciences

**Adair, Henry S., DVM, MS, DACVS, DACVSMR, CERP** sadair@utk.edu
Research Interests: Equine laminitis; laser Doppler flowmetry; microvascular blood flow and laser surgery

**Anderson, David E., DVM, MS, DACVS** dander48@utk.edu
Research Interests: Bovine pain and welfare; ruminant surgery; animal models for human research

**Beever, Jon, MS, PhD** jbeever@utk.edu
Research Interests: Livestock genomics

**Caldwell, Marc, DVM, PhD, DACVIM** mcaldwell@utk.edu
Research Interests: Infectious diseases of food animals with particular focus on bacterial pathogenesis and host-pathogen interactions

**Collar, Elizabeth, DVM, PhD, DACVS** ecollar@utk.edu
Research Interests: Musculoskeletal injuries in race and performance horses

**Dhar, Madhu, MS, PhD** mdhar@utk.edu
Research Interests: Animal models of human disease with special relevance to obesity and diabetes

**Lear, Andrea, DVM, MS, PhD, DACVIM** alear@utk.edu
Research Interests: Reproductive and placental immunology, infectious disease, neonatology

**Mulon, Pierre-Yves, DVM, DES, DACVS** pmulon@utk.edu
Research Interests: Biomechanics, bone healing, regenerative medicine, bone implant interface, osseointegration

**Prado, Tulio, DVM, MS, DACT** tprado@utk.edu
Research Interests: Large animal reproductive efficiency with emphasis on food animal production medicine. General animal reproduction including companion animals, lamoids, and equine

**Seddighi, M. Reza, DVM, MS, PhD, DACVAA, CVMA** mrsed@utk.edu
Research Interests: Pharmacokinetics and dynamics of analgesics and anesthetics

**Smith, Joe, DVM, MPS, PhD, DACVIM, DACVCP** jsmith604@utk.edu
Research Interests: Pharmacology; small ruminants; ruminant pain management; comparative animal models

**Whitlock, Brian, DVM, MS, PhD, DACT** bwhitloc@utk.edu
Research Interests: Reproductive physiology and endocrinology; interaction of metabolic and reproductive systems

Small Animal Clinical Sciences

**Millis, Darryl, DVM, MS, DACVS, CCRP, DACVSMR** dmillis@utk.edu
Research Interests: Effects of growth factors on bone healing; canine gait analysis

**Murphy, Maryanne, DVM, PhD, DACVN** mmurph30@utk.edu
Research Interests: Obesity management and prevention; dietary management of gastrointestinal disease; veterinary nutrition

**Rollins, Angela, DVM, PhD, DACVN** arollins@utk.edu
Research Interests: Canine and feline obesity physiology, prevention, and management

**Tobias, Karen, DVM, MS, DACVS** ktorija@utk.edu
Research Interests: Congenital portosystemic shunts; suture strength and knot security
Entomology & Plant Pathology, Food Science, Nutrition, Public Health

**Barroso, Cristina, DrPH**  
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Research Interests: Child and adolescent health disparities, childhood obesity, healthy eating, active living, and body image

**Brown, Kathleen C., PhD, MPH**  
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Research Interests: Health issues and how they affect the overall quality of life and health of the community

**Chen, Jiangang (Jay), MM, PhD**  
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Research Interests: Impacts of environmental toxicants on development and reproductive function

**D'Souza, Doris, PhD**  
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Research Interests: Rapid detection & tracking systems for foodborne pathogens in the food environment to prevent outbreaks and recalls

**Kintziger, Kristina, PhD, MPH**  
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Research Interests: Understanding the vulnerabilities and current & future disease burden associated with climate-sensitive hazards; understanding the relationship between

**Trout Fryxell, Rebecca, MS, PhD**  
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Research Interests: Surveying vector populations and assessing pathogen prevalence; ascertaining specific biologies and life histories of vectors by population, species, and/or community; investigating population specific vector ecology and genetics; and developing and evaluating novel methods for vector management and disease suppression

**Goldman, Mitchell, MD**  
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Research Interests: Vascular/transplant surgery

**Grandas, Oscar, MD**  
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Research Interests: Pancreas transplantation

**Karlstad, Michael, PhD**  
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Research Interests: Regulation of pulmonary inflammation and protein metabolism by protein and lipid mediators in critical illness and trauma

**Kennel, Stephen, PhD**  
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Research Interests: Human immunology & cancer

**Marks, Murray K, PhD**  
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Research Interests: Mineralized tissue biology and histology; dental enamel histopathology; skeletal trauma histology; fetal dental development, human identification/forensic anthropology

**Mountain, Deidra, PhD**  
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Research Interests: Vascular/transplant surgery

**Terry, Paul, PhD, MPH**  
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Research Interests: Epidemiology

**Wall, Jonathan, PhD**  
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Research Interests: Amyloid and other abnormal protein assemblies