

# Selected RUSVM Research Topics & Proposed Supervisors\*



**ROSS UNIVERSITY**  
SCHOOL OF VETERINARY MEDICINE

Neglected tropical and zoonotic diseases, particularly focused upon livestock and companion animals. **A. Lee Willingham**, BSc, DVM, PhD; Director, One Health Center for Zoonoses and Tropical Veterinary Medicine; Professor of One Health.

Translational research in biomedical pain management, reproductive disorders, and *in vitro* models of non-infectious human and animal diseases. **Sean J. Callanan**, MVB, PhD, Cert VR, DiplECVP, MRCVS, FRCPath; Director, The Center for Integrative Mammalian Research; Professor of Anatomic Pathology; Chair, Postgraduate Studies.

Aquaculture and associated research topics in microbial pathogenesis, immune response, aquatic microbiology (microcosms, biofilms, etc.). **Esteban Soto**, Med Vet, M Sc, PhD, DACVM; Associate Professor of Veterinary Bacteriology and Mycology.

Zoonoses (e.g. toxoplasmosis) and arthropod-borne diseases (e.g. dengue). **Patrick Kelly**, BVSc, MSc, PhD; Professor of Small Animal Internal Medicine.

Food safety and security. Syndrome-based surveillance systems and epidemiology. **Fortune Sithole**, BVSc, MSc, PhD, DiplACVPM; Assistant Professor of Public Health & Epidemiology.

Bacterial vector-borne diseases, with a focus upon the genera *Anaplasma*, *Ehrlichia*, *Bartonella*, *Rickettsia*. **Diana Scorpio**, MPH, DVM, DiplACLAM; Associate Professor of Veterinary Medicine.

Molecular pathogenesis and host-parasite interactions, with a focus upon genera of medical/veterinary importance, including *Leishmania*, *Trichomonas*, *Trichinella*. **Chaoqun Yao**, MD, PhD; Associate Professor of Parasitology.

Advanced reproductive techniques, food animal medicine, herd health immunity, and small ruminant animal models for infectious disease research. **Hilari French**, DVM, PhD; Assistant Professor of Theriogenology.

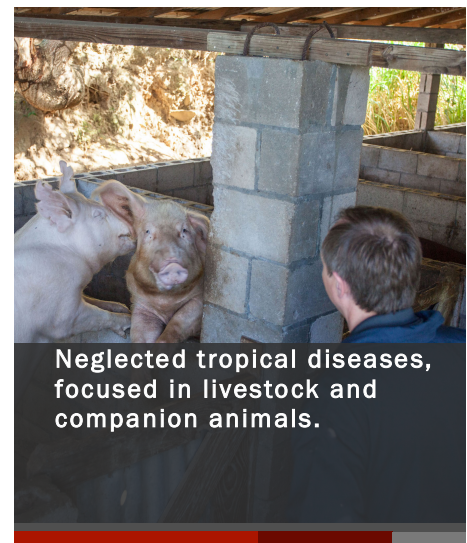
Management of parasites in small ruminants. **Jennifer Ketzis**, MS, PhD; Assistant Professor of Parasitology.

Conservation and health assessment program of local sea turtles. **Kimberly Stewart**, MS, DVM; Assistant Professor of Special Species.

The use of non-invasive methods to assess the impact of environmental toxicants and stressors on reproductive development, health and disease in marine mammals. **Don Bergfelt**, BS, MS, PhD; Associate Professor of Biomedical Sciences.

Biomarkers of sepsis and infectious diseases; pulmonary hypertension. **Liza Koster**, BVSc(Hons), MMedVet(Med), DECVIM-CA, MRCVS; Assistant Professor of Small Animal Medicine.

Development of methods to improve the molecular diagnosis of leptospirosis and identification of the genotypes and virulence factors of leptospirosis within the region. **Sree Rajeev**, BS, DVM, PhD; Associate Professor of Infectious Diseases.



Neglected tropical diseases, focused in livestock and companion animals.

Anatomical development of the jaw and middle ear in the dog; relationship of the canine malleomandibular ligament and tympanomandibular ligaments and their role in acute-onset deafness following dental surgery. **Cathryn Sparks**, MS, PhD; Assistant Professor of Veterinary Anatomy.

Equine Infectious Anemia Virus (EIAV) natural infection: improvement of control measures, investigation of alternative routes of transmission. **Pompei Bolfa**, MSc, PhD, DVM; Assistant Professor of Veterinary Anatomy.

Small ruminant disease surveillance, herd health and management. **Jerry Roberson**, DVM., PhD, DACVIM; Associate Professor Theriogenology/Large Animal Medicine. Assistant Professor of Veterinary Anatomy.

Functional characterization of an Ovulation Inducing Factor (OIF) mechanism of ovulation in mammals; follicular dynamics, animal nutrition and reproduction, and assisted reproductive technology in ruminants and camelids. **Marcelo Ratto**, DVM, MS, PhD; Associate Professor of Animal Reproductive Physiology.

Parasitic and infectious diseases in felines; feline and canine neurological disorders (epilepsy and neuromuscular diseases). **Linda Shell**, BA, DVM; Professor of Small Animal Medicine.

Veterinary and medical virology; whole genome analysis, genetic diversity, epidemiology and evolution of zoonotic viruses; One-Health in tropical countries; public health. **Souvik Ghosh**, BVSc , AH, MVSc, PhD; Assistant Professor of Infectious Diseases.

Infectious diseases, One-Health in tropical countries; public health. **Christa Ann Gallagher**, BS, MPH, DVM; Assistant Professor of Veterinary Public Health and Epidemiology.

Endometrial innate immunity in postpartum cattle, energy balance in postpartum cattle, uterine microbial populations after calving. **Aspinas Chapwanya**, BSc, BVSc, MVM, PhD; Associate Professor of Theriogenology.

Developing integrated management plans for invasive and introduced species on the island of St. Kitts; habitat characterization, population density and wildlife conservation. **Luis Cruz-Martinez**, DVM, MSc, PhD; Post-Doctoral Research Fellow.



\*Research topics subject to change based on availability of supervisor.