

University of Tennessee College of Veterinary Medicine



Program and Schedule



8:00 to 8:15 AM Awards Presentation in Room A118:

Boehringer Ingelheim Faculty Research Mentoring Award

The Boehringer Ingelheim Faculty Research Mentoring Award recognizes a faculty member who excels in teaching, training, and sharing their knowledge with students pursuing advanced degrees in research at the University of Tennessee College of Veterinary Medicine.

Zoetis Award for Veterinary Research Excellence

The Zoetis Award for Veterinary Research Excellence recognizes outstanding research effort, productivity, and the advancement of knowledge in areas relevant to veterinary medicine.

8:15 to 10:00 AM Research Presentations

View abstracts by visiting: https://tinyurl.com/utcvmresearchday2022

Session A: A203 Sequoyah Graduate Classroom

Time	Presenter's Name	Presentation Title
8:15 - 8:30 AM	Kehinde Damilare Fasae	Alterations in arthropod and neuronal exosomes reduce virus transmission and replication in recipient cells
8:30 - 8:45 AM	Krittika Nandy	Subolesin regulates innate immune genes in soft ticks
8:45 - 9:00 AM	Lichao Liu	An endosymbiont of a relapsing fever tick Ornithodoros turicata
9:00 - 9:15 AM	Swarnendu Basak	Dengue virus modulates cell cycle signaling in human megakaryocytes
9:15 - 9:30 AM	Dr. Mahesh Puthiyottu Poyil	Organic anion transporting polypeptide based antivector vaccine impairs transmission of human anaplasmosis agent from ticks
9:30 - 9:45 AM	Dr. Waqas Ahmed	Novel arthropod exosomal cement protein mediates transmission of tick-borne flavivirus by modulation of human skin chemokines
9:45 - 10:00 AM	Dr. Prachi Namjoshi	Rickettsial pathogen uses arthropod tryptophan metabolite xanthurenic acid to facilitate tick cell survival

Session B: A118 First Year Classroom

Time	Presenter's Name	Presentation Title
8:15 - 8:30 AM	Dr. Kristin Bowers	Mesenchymal stem cell use in acute tendon injury: In vitro tenogenic potential vs. in vivo dose response
8:30 - 8:45 AM	Kendall Barnes	Bone cement: Factors affecting exothermic polymerization
8:45 - 9:00 AM	Katherine Deal	Cellular proliferation, differentiation, and morphology of pre-osteoblastic cells exposed to 2D monolayer and 3D collagen scaffold culture conditions, +/- BMP-2
9:00 - 9:15 AM	Taylor Demers	Parasites in wild-caught <i>Notophthalmus viridescens</i> experimentally infected with <i>Batrachochytrium</i> salamandrivorans
9:15 - 9:30 AM	Kendra Rich	Gopher tortoise health assessment
9:30 - 9:45 AM	Jeronimo Silva	An Interdisciplinary approach to assessing freshwater mussel health and mortality in the Clinch River
9:45 - 10:00 AM	Dr. Amy Webb	Cytological investigation of brown pigment lesions in mountain star coral (<i>Orbicella faveolata</i>)

Session C: A335 Third Year Classroom

Time	Presenter's Name	Presentation Title
8:15 - 8:30 AM	Kailee Bennett	Pharmacokinetics and pharmacodynamics of pantoprazole in sheep
8:30 - 8:45 AM	Ryan Flynn	A field trial of two point-of-care glucometers in healthy ewes
8:45 - 9:00 AM	Dr. Morgan Adkins	Viral Trojan horse: Exosome formation mediates BVDV transmission to susceptible cells
9:00 - 9:15 AM	Dr. Caroline Griffin	Relationship of placentome vascular perfusion and circulating pregnancy associated glycoproteins throughout gestation in pregnant beef heifers
9:15 - 9:30 AM	Celia Gelpey	Development of a reverse transcription loop- mediated isothermal amplification (RT-LAMP) assay for rapid detection of canine distemper virus
9:30 - 9:45 AM	Ashkan Roozitalab	Molecular characterization of thirteen Staphylococcus pseudintermedius strains isolated from the United State
9:45 - 10:00 AM	Anna Hauck	Evaluating chemokine and sphingolipid receptor expression in canine diffuse large B cell lymphoma (DLBCL)

10:15 AM to 1:00 PM Research Presentations

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Session D: A203 Sequoyah Graduate Classroom

Time	Presenter's Name	Presentation Title
10:15 - 10:30 AM	Eric Webster	Development of a F18 labeled peptide p5+14 for PET imagining of peripheral amyloidosis
10:30 - 10:45 AM	Allison Renwick	Effects of acute endotoxin inflammation on reproductive neuroendocrinology in intact ewes
10:45 - 11:00 AM	Kara Brady	A synthetic kisspeptin analog, compound 6, increases plasma luteinizing hormone in cows with low plasma progesterone concentrations
11:00 - 11:15 AM	Ola Elsakhawy	Antimicrobial genes in thermophilic <i>Bacillus</i> paralicheniformi sp. associated with mobile elements
11:15 - 11:30 AM	Lufuno Phophi	The molecular epidemiology of <i>S. pseudintermedius</i> isolated from dogs in South Africa
11:30 - 11:45 AM	Jaclyn Azelby	Characterizing Mycobacterium isolates from dogs and cats
11:45 AM - 12:00 PM	Myranda Gorman	Testing virulence of a <i>Leptospira</i> strain in hamsters: A preliminary study
12:00 - 12:15 PM	Kellie McCreight	Leptospira Seroprevalence in dogs and cats in Tennessee
12:15 - 12:30 PM	Sara Howard	Chronic obstructive pulmonary disease (COPD) among former Department of Energy workers in the United States, 2006-2019
12:30 - 12:45 PM	Nirmalendu Deb Nath	Geographical disparities and temporal changes of COVID-19 incidence risks in North Dakota, United States
12:45 - 1:00 PM	Dr. Liana Nunes Barbosa	Functional and structural characterization of potential immunogenic proteins of pathogenic <i>Leptospira</i>

Session E: A118 First Year Classroom

Time	Presenter's Name	Presentation Title
10:15 - 10:30 AM	Dr. Eliza Baker	Prevalence and histologic lesions of <i>Trypanosoma</i> cruzi in Tennessee wildlife
10:30 - 10:45 AM	Katie Riese	Black bear population health monitoring in Eastern Tennessee
10:45 - 11:00 AM	Dr. Jessie Richards	Novel methods of immunogenic antigen selection for serological diagnosis of <i>Parelaphostrongylus tenuis</i> infection
11:00 - 11:15 AM	Katelyn Broadway	Parasites of wild turkeys in Middle Tennessee
11:15 - 11:30 AM	Monica Lee	Fecal float and examination of tissue samples for parasites of black bears (<i>Ursus Americanus</i>)
11:30 - 11:45 AM	Alex Shanks	Pharmacokinetics of oral clonazepam in commercial swine (<i>Sus Scrofa</i>)
11:45 AM - 12:00 PM	Dr. Juliet Ross	Evaluation of the perioperative analgesic effects of grapiprant compared with carprofen in dogs undergoing elective ovariohysterectomy
12:00 - 12:15 PM	Dr. Nicole Szafranski	Serological response of Mallard ducks (<i>Anas platyrhynchos</i>) following an experimental infection of <i>Toxoplasma gondii</i> tachyzoites
12:15 - 12:30 PM	Dr. Catherine Burlison	Pharmacokinetics of orally administered single- dose ponazuril in cats
12:30 - 12:45 PM	Dr. Leah Moody	Local anesthetic delivery via an indwelling retrobulbar catheter in horses

Session F: A335 Third Year Classroom

Time	Presenter's Name	Presentation Title
10:15 - 10:30 AM	Ally Mayhew	Hematology and plasma chemistry comparisons among juvenile American black bears (<i>Ursus americanus</i>) undergoing rehabilitation
10:30 - 10:45 AM	Cody Brady	Comparison of the Truforma cortisol assay and a chemiluminescent assay for measurement of canine serum cortisol concentrations
10:45 - 11:00 AM	Nick Millis	Bacterial contamination of the environment of veterinary rehabilitation clinics
11:00 - 11:15 AM	Dr. Alexandra Carlson	Safety and feasibility of intraarticular ultrafiltration probes for serial synovial fluid collection in the horse: A preliminary study
11:15 - 11:30 AM	Layla Gray	Evaluation of safety and osteochondral activity after repeat intra-articular allogenic stem cell injections in MHC-mismatched horses
11:30 - 11:45 AM	Rebekah Johnson	Pharmacokinetics and pharmacodynamics of intravenous and oral esomeprazole in horses
11:45 AM - 12:00 PM	Shamim Sarkar	Violative levels of antibiotic residues in U.S. slaughtered food animals: Has the veterinary feed directive regulations changed the course?
12:00 - 12:15 PM	Dr. Tim Chamberlain	Cranial neurovascular anatomy of the Ilama (<i>Lama glama</i>) to develop an alternative surgical approach to the tympanic bullae
12:15 - 12:30 PM	Dr. Greg Woo	Preliminary study of antebrachial circumference measurement and association with muscle mass in dogs
12:30 - 12:45 PM	Dr. Mariola Rak	Clinical and gastrointestinal changes in healthy research dogs administered prednisone, prednisone/omeprazole, or prednisone/probiotics
12:45 - 1:00 PM	Molly Werder	Audioarthrology: A potentially useful tool for assessing joint disease

Thank you to all of the volunteers who have worked together to make Research Day possible!

Moderators:

Dr. Liz Collar
Dr. Linden Craig
Deb Haines
Dr. Girish Neelakanta
Dr. Zenithson Ng
Dr. Nora Springer

Judges:

Dr. Mohamed Abouelkhair Dr. Julia Albright Dr. David Anderson Dr. Michelle Dennis Dr. Madhu Dhar Dr. Alex Esteller-Vico Dr. Mike Fry Dr. Rick Gerhold Dr. Luca Giori Dr. Ashley Hartley Dr. Melissa Hines Dr. Deb Miller Dr. Darryl Millis Dr. Pierre-Yves Mulon Dr. Angela Rollins Dr. Reza Seddighi Dr. Hameeda Sultana

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