



University of Tennessee  
College of Veterinary Medicine

# RESEARCH DAY

**September 20, 2021**  
8:00 AM – 12:00 PM

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## Program and Schedule

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## 8:00 to 8:15 AM Awards Presentation: Boehringer Ingelheim Faculty Research Mentoring Award Zoetis Award for Veterinary Research Excellence

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.

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/utcvmresearchday2021>

### Session A

Room: A203 Sequoyah Graduate Classroom

**Zoom Link:** <https://tennessee.zoom.us/j/97260975618>

Time	Presenter's Name	Presentation Title
8:15 – 8:30 AM	Austin Bow	Rat dental pulp stem cells as a multi-potent bio-additive for tissue engineering technologies
8:30 – 8:45 AM	Amber MacDonald	Stem cell activity during osteoporosis
8:45 – 9:00 AM	Meaghan Harley	Poly lactic-co-glycolic acid and graphene oxide nerve conduits implanted with human adipose-derived mesenchymal stem cells to promote axonal growth in peripheral nerve defect
9:00 – 9:15 AM	Stephanie Dantino	Effects of acepromazine and butorphanol on propofol induction dose in healthy dogs
9:15 – 9:30 AM	Kristin Bowers	Biometric assessment of gait following locking plate fixation bridging a segmental bone gap in the tibia of goats
9:30 – 9:45 AM	Caroline Billings	Comparison of protocols for <i>in vitro</i> drug elution characteristics
9:45 – 10:00 AM	Becky DeBolt	Pharmacokinetics of orally administered single-dose ponazuril in cats

### Session B

Room: A118 First Year Classroom

**Zoom Link:** <https://tennessee.zoom.us/j/95127116818>

Time	Presenter's Name	Presentation Title
8:15 – 8:30 AM	Nicole Szafranski	Investigation of the prevalence of <i>Toxoplasma gondii</i> in North American waterfowl
8:30 – 8:45 AM	Sawsan Ammar	Metabolic profile of <i>Histomonas meleagridis</i> and undefined bacterial population in Dwyer's media with and without rice starch
8:45 – 9:00 AM	Tania Dawant	New technique to grow <i>Toxoplasma gondii</i> directly from animal tissue on cell culture
9:00 – 9:15 AM	Katy Wilkinson	Detection of select vector-borne agents of ticks collected from East Tennessee veterinary clinics
9:15 – 9:30 AM	Julie Bedwani	Establishing a wildlife biobank at the University of Tennessee College of Veterinary Medicine with a pilot study of wildlife pathology
9:30 – 9:45 AM	Abbie Metcalfe	A retrospective review of spinal disease in non-domestic felids

## Session C

Room: A335 Third Year Classroom

**Zoom Link:** <https://tennessee.zoom.us/j/93149909456>

Time	Presenter's Name	Presentation Title
8:15 – 8:30 AM	Tamara Chavez-Lindell	Geographic disparities and temporal changes of diabetes mortality risk among adults in South Africa, 2002-2016
8:30 – 8:45 AM	Corinne Tandy	Geographic disparities and socio-demographic predictors of pertussis risk in Florida
8:45 – 9:00 AM	Jennifer Lord	Antimicrobial, multidrug and methicillin resistance among <i>Staphylococcus</i> spp. isolated from canine clinical specimens between 2006 and 2017: A descriptive study
9:00 – 9:15 AM	Md Marufuzzaman Khan	Prevalence and predictors of stroke among individuals with prediabetes and diabetes in Florida
9:15 – 9:30 AM	Beth Wilson	Mommy, why is grandma getting fat? A research plan to compare lean to overweight post-menopausal women
9:30 – 9:45 AM	Myranda Gorman	Comparing methodologies for the detection of <i>Leptospira</i> in environmental samples
9:45 – 10:00 AM	Engin Berber	Controlling the HSV-1 infection by metabolic manipulation

**Break from 10:00 to 10:15 AM . . . . .**

## 10:15 AM to 12:00 PM Research Presentations

View abstracts by visiting:  
<https://tinyurl.com/utcvmresearchday2021>

## Session D

Room: A203 Sequoyah Graduate Classroom

**Zoom Link:** <https://tennessee.zoom.us/j/97260975618>

Time	Presenter's Name	Presentation Title
10:15 – 10:30 AM	Allison Renwick	Effects of chronic endotoxemia on rectal and subcutaneous temperature in wethers
10:30 – 10:45 AM	Channing Cantrell	Efficacy of a Hypochlorous acid solution on bacterial re-colonization of surgical sites
10:45 – 11:00 AM	Piper Gauthier	Pharmacokinetics and pharmacodynamics of pantoprazole in neonatal calves
11:00 – 11:15 AM	Emma Faddoul	Dog with MRSP pyoderma converted to MSSP after <i>Staphylococcus pseudintermedius</i> vaccine administration
11:15 – 11:30 AM	Haley Cremerius	Development of a serum-based enzyme-linked absorbent assay detecting alpaca pregnancy associated glycoproteins (PAGs)
11:30 – 11:45 AM	Nathan Squire	Gastrointestinal dysbiosis in dogs with congenital portosystemic shunts

## Session E

Room: A118 First Year Classroom

**Zoom Link:** <https://tennessee.zoom.us/j/95127116818>

Time	Presenter's Name	Presentation Title
10:15 – 10:30 AM	Laura Horton	Serological surveillance of various pathogens in Middle Tennessee wild turkey population
10:30 – 10:45 AM	Eliza Baker	Health survey of coyotes from South Carolina and Tennessee
10:45 – 11:00 AM	Megan White	<i>In vitro</i> examination of novel therapeutic compounds to control <i>Histomonas meleagridis</i>
11:00 – 11:15 AM	Jessie Richards	Serological diagnosis of <i>Parelaphostrongylus tenuis</i> infection in aberrant hosts
11:15 – 11:30 AM	Waqas Ahmed	Role of tick exosomes in acquisition or transmission of tick-borne pathogens
11:30 – 11:45 AM	Prachi Namjoshi	Rickettsial pathogen uses tryptophan metabolite xanthurenic acid to facilitate tick cell survival

## Session F

Room: A335 Third Year Classroom

**Zoom Link:** <https://tennessee.zoom.us/j/93149909456>

Time	Presenter's Name	Presentation Title
10:15 – 10:30 AM	Ashley Reeves	Viral, vector-borne, and blood-borne pathogen prevalence of free-ranging ocelots ( <i>Leopardus pardalis</i> ) and bobcats ( <i>Lynx rufus</i> ) in southern Texas
10:30 – 10:45 AM	Samantha Kuschke	Finding normal in a warming world: Baseline PCV and TS data and its relation to incubation temperature in sea turtle hatchlings and post-hatchlings from Boca Raton, Florida
10:45 – 11:00 AM	Anastasia Towe	Use of implants for Terbinafine administration to treat and prevent chytridiomycosis in amphibians
11:00 – 11:15 AM	Samuel Good	Classification and implications of bacteria within the GI tract of leatherback ( <i>Dermochelys Coriacea</i> ) hatchlings from the East Coast of Florida: An exploratory study
11:15 – 11:30 AM	Mariah Dee	Fungus among us: The impact of <i>Batrachochytrium salamandrivorans</i> (Bsal) on reproductive fitness
11:30 – 11:45 AM	Shamim Sarkar (1)	Environmental determinants of bovine anaplasmosis in Tennessee cattle
11:45 AM – 12:00 PM	Shamim Sarkar (2)	Occurrence of antibiotic residues in beef, eggs, and honey sold in East Tennessee farmers' markets, 2020

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