



University of Tennessee
College of Veterinary Medicine

RESEARCH DAY

September 20, 2021
8:00 AM – 12:00 PM

Program and Schedule

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 | Development of a serum-based enzyme-linked absorbent assay detecting alpaca pregnancy associated glycoproteins (PAGs) |
| 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 | Pharmacokinetics and pharmacodynamics of pantoprazole in neonatal calves |
| 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!