

University of Tennessee
College of Veterinary Medicine



RESEARCH DAY

September 30, 2019

Program and Schedule



Sponsored by the College of Veterinary Medicine, Tennessee AgResearch, the UTK Office of Research and Engagement, and the UT Center of Excellence

8:00 am - 9:00 am Scheduled Sessions

Session A

Room: Sequoyah

Moderator: Dr. Madhu Dhar

Judges: Drs. Claudia Kirk and Mike Fry

Time	Presenter's Name	Presentation Title
8:00-8:15	Austin Bow	Comparative Analysis of Osteogenic Platforms in the Regeneration and Repair of Rodent Mandibular Defects
8:15-8:30	Desmond Coates	Preliminary investigation of graphene impregnated bone regeneration scaffold for simultaneous dental implantation in a goat mandible defect model
8:30-8:45	Laura Freeman	Comparison of acute load to failure testing of goat femoral neck fractures, ex vivo, repaired using 4.0-mm solid, cannulated, or enhanced cannulated cancellous bone screws
8:45-9:00	Steven Newby	3D printed Low Oxygen Graphene- Poly Lactic-co-Glycolic Acid (PLGA) nanoengineered scaffold will create an environment suitable for mesenchymal stem cell proliferation and differentiation for osteogenesis and angiogenesis for orthopedic repair

Session B

Room: A118

Moderator: Deb Haines

Judges: Drs. Andi Lear and David Anderson

Time	Presenter's Name	Presentation Title
8:00-8:15	Markese Bohanon	Host density and habitat structure influence contact rates and transmission of <i>Batrachochytrium salamandrivorans</i>
8:15-8:30	Wesley Siniard	<i>Batrachochytrium salamandrivorans</i> in the cuban treefrog (<i>Osteopilus septentrionalis</i>)
8:30-8:45	Laura Horton	Assessment Of Turtle And Leech (Hirudinea) Parasite-host Assemblage Variation In Middle Tennessee Wetlands Across A Disturbance Gradient
8:45-9:00	Ida Ayu Dian Kusuma Dewi	Detection of spirorchiid ova in blood samples from green sea turtles (<i>Chelonia mydas</i>) by realtime polymerase chain reaction (qPCR)

Session C

Room: A335

Moderator: Jessica Blackwell

Judges: Drs. Pierre-Yves Mulon and Michael McEntee

Time	Presenter's Name	Presentation Title
8:00-8:15	Alex Bowman	Increased heat resistance of <i>Staphylococcus carnosus</i> CS 300 after growth with media with NaCl or 20% glycerol at 42°C, as a potential hepatitis A virus surrogate
8:15-8:30	Joseph Choi	Reduction of <i>Escherichia coli</i> O157:H7 and <i>Salmonella</i> Typhimurium with Value-added Switchgrass Extractive
8:30-8:45	Lufuno Phophi	Antimicrobial resistance patterns and biofilm formation of coagulase negative <i>Staphylococcus</i> species isolated from cow milk samples submitted to the Onderstepoort Milk Laboratory, South Africa
8:45-9:00	Rachael Wolters	Patterns of antimicrobial resistance among <i>Streptococcus canis</i> isolates from dogs presented to The Onderstepoort Veterinary Academic Hospital, South Africa

9:00 am - 9:30 am Break

Refreshments in the Brick Foyer

9:30 am - 10:45 am Scheduled Sessions

Session D

Room: Sequoyah

Moderator: Jessica Blackwell

Judges: Drs. Juergen Schumacher and Michael McEntee

Time	Presenter's Name	Presentation Title
9:30-9:45	Remigiusz Grzeskowiak	Assessment of a 3D Hydrophilic Polyurethane Scaffold containing nano-HA and bone particles, with or without BMP2 or mesenchymal stem cells, on Bone Regeneration and Neovascularization of massive (> 5cm) segmental defects
9:45-10:00	Rebecca Rifkin	Evaluation of 3D Bone Regeneration Scaffold
10:00-10:15	Kassandra Willoughby	Assessment of Osteoinduction of a 3D scaffold containing Nano-hydroxyapatite with or without decellularized bone particles and with or without BMP2
10:15-10:30	Alisha Pedersen	Next generation, rapidly degradable anastomotic guide for enhanced surgical technique for end-to-end small intestinal anastomosis
10:30-10:45	Riley Thompson	Equine endometrial organoids derived from fresh and cryopreserved mare tissue biopsies maintain function long-term in vitro

Session E

Room: A118

Moderator: Dr. Mike Fry

Judges: Drs. Melissa Kennedy and Claudia Kirk

Time	Presenter's Name	Presentation Title
9:30-9:45	Samantha Kuschke	Effects of incubation temperature on intestinal length in leatherback sea turtle (<i>dermochelys coriacea</i>) hatchlings from Boca Raton, Florida
9:45-10:00	Will Overton	Survey of <i>Elaeophora schniedereri</i> vector hosts in tabinad fly blood-meal DNA extractions
10:00-10:15	Sawsan Ammar	<i>Toxoplasma gondii</i> strain and dose effect on feed conversion rate, body weight, serum antibodies response and systemic distribution in intraperitoneally infected domestic turkey poults
10:15-10:30	Jessie Richards-Elms	Serological Diagnosis of <i>Parelaphostrongylus tenuis</i> Infection
10:30-10:45	Piper Gauthier	Morphological and molecular analysis of soft corals (Octocorallia: Alcyonacea) from three reef sites on the eastern coast of Mactan Island, Cebu, Philippines

View abstracts by [clicking here.](#)

Session F

Room: A335

Moderator: Dr. Rick Gerhold

Judges: Drs. David Anderson and Andi Lear

Time	Presenter's Name	Presentation Title
9:30-9:45	BreeAnna Dell	Survey of Bacterial and Viral Pathogens in Bushmeat Sold in Village Markets Surrounding Murchison National Park, Northern Uganda
9:45-10:00	Megan Wright	Clinical Trial to Determine Efficacy of Copper Oxide Wire Particles Against Gastrointestinal Nematodes in Adult Alpacas
10:00-10:15	Norah Young	Non-invasive muscle activation measurement using surface electromyography during therapeutic exercise
10:15-10:30	Vincent Doré	Hyperketonemia to predict mortality in dairy goat during the last month of pregnancy
10:30-10:45	Michelle Buitrago	Efficacy of NOCITA compared to placebo and regular bupivacaine for post-operative analgesia in dogs following thoracolumbar hemilaminectomy for acute disc herniation

10:45 am - 11:00 am Break**11:00 am - 12:00 pm Faculty Presentations****Session G**

Room: A335

Time	Presenter's Name	Presentation Title
11:00-11:30	Urshulaa Dholakia	Prolonged Anesthetic Recovery after Midazolam Continuous Rate Infusion in Domestic Cats (<i>Felis catus</i>)
11:30-12:00	Tena Ursini	Activation of the multifidus muscle in horses performing therapeutic exercises

Session H

Room: A118

Time	Presenter's Name	Presentation Title
11:00-11:30	Cheryl Greenacre	Investigating the prevalence of the zoonotic pathogen, <i>Toxoplasma gondii</i> in alternatively raised poultry
11:30-12:00	Naveen Rajasagi	Treatment with interleukin-2 controls HSV-1 induced corneal immunopathology