

University of Tennessee  
College of Veterinary Medicine



# RESEARCH Day

October 2, 2018

## 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

## 8:10 am - 9:10 am Scheduled Sessions

### Session A

Room: Sequoyah Room

Moderator: Deb Haines

Judges: David Anderson and Stephen Kania

Time	Presenter's Name	Presentation Title
8:10-8:25	Anastasia Towe	Investigating the pathology of Batrachochytrium Salamandrivorans in salamanders
8:25-8:40	Jeremy McKeever	Effects of Incubation Temperature on Intestinal Length in Loggerhead Sea Turtle ( <i>Caretta caretta</i> ) from Boca Raton, Florida
8:40-8:55	Wendy Harmon	The Impossible Salamander: Aberrant Coloration as a Result of Metal Toxicity, Crypsis, or Light Exposure?
8:55-9:10	Conner Hayes	Retrospective study on morbidity and mortality associated with general anesthesia in Potbellied-Pigs: Preliminary Results

### Session B

Room: A335

Moderator: Leslie Wereszczak

Judges: Michael McEntee and William Kelch

Time	Presenter's Name	Presentation Title
8:10-8:25	Sawsan Ammar	Toxoplasma gondii prevalence in various waterfowl species
8:25-8:40	BreeAnna Dell	Species Deception in Bushmeat at Point of Sale and Perceptions of Zoonoses Potential in Nwoya District, Uganda
8:40-8:55	Megan Miller	Serological Diagnosis of <i>Elaeophora schneideri</i> infection in moose ( <i>Alces alces</i> )
8:55-9:10	Jessie Richards	Serological Diagnosis of <i>Parelaphostrongylus tenuis</i> Infection

### Session C

Room: Tickle Seminar Room

Moderator: Lee Flood

Judges: Linden Craig and Carla Sommardahl

Time	Presenter's Name	Presentation Title
8:10-8:25	Jane Woodrow	Counter-regulatory roles of mast cell derived bone morphogenetic protein (BMP)-7 during in-inflammation
8:25-8:40	Nicole Corder	Mast Cells Exhibit Bone Morphogenetic Protein Signaling in Response to Inflammation
8:40-8:55	Kristen Maxwell	Evaluation of fat-soluble vitamin status in dogs and cats with chronic enteropathy
8:55-9:10	Jillian Smith	Myeloperoxidase and Xanthine Oxidase as Possible Biomarkers for Urinary Tract Infections in Canines

### Session D

Room: A118

Moderator: Amanda Hand

Judges: Madhu Dhar and Reza Seddighi

Time	Presenter's Name	Presentation Title
8:10-8:25	Mohamed Abouelkhair	Characterization of SpEX, a new candidate <i>Staphylococcus pseudintermedius</i> exotoxin
8:25-8:40	Lindsey Parker	Prevalence of Feline Immunodeficiency Virus in Lions of Northwest Zimbabwe
8:40-8:55	Caroline Billings	The Effect of Porosity on Drug Elution from Novel Polymeric Devices
8:55-9:10	Naomi Falconnier	Effect of Hydrophilicity elution of Ceftiofur from various Polyurethanes Substrates

**9:10 am - 9:25 am Break**  
Refreshments in the Student Lounge

**9:25 am - 10:40 am Scheduled Sessions**

**Session E**

**Room: Sequoyah Room**

**Moderator: Rick Gerhold**

**Judges: Marcy Souza and Agricola Odoi**

<b>Time</b>	<b>Presenter's Name</b>	<b>Presentation Title</b>
9:25-9:40	Austin Bow	Pathway Development for Effects of an Osteogenic Construct on Adipose-derived Human Mesenchymal Stem Cells through Metabolomic Analysis
9:40-9:55	Steven Newby	Evaluation of cell material interaction using decellularized bovine and porcine based scaffolds for bone tissue repair
9:55-10:10	Rebecca Rifkin	Quantitative assessment of lameness in goats
10:10-10:25	Richard Steiner	In-vitro immunofluorescence analysis of MSC culture on PCL+GO films for nerve regeneration
10:25-10:40	Remigiusz Grzeskowiak	In Vitro Biomechanical Testing of the Equine Metacarpophalangeal Collateral Ligaments and the Collateral Ligaments Repair using Suture Anchors

**Session F**

**Room: A335**

**Moderator: Carla Sommardahl**

**Judges: Deb Miller and William Kelch**

<b>Time</b>	<b>Presenter's Name</b>	<b>Presentation Title</b>
9:25-9:40	Samantha Collins	Microenvironmental sampling techniques of the nasal cavity of cattle and experimental nasal colonization of <i>Mannheimia haemolytica</i>
9:40-9:55	Calvin Kidd	Comparison of Suture Tensile Strengths
9:55-10:10	Owen Schumacher	Validation of point of care blood ammonia meter, PocketChem BA meter, in horses
10:10-10:25	Riley Thompson	Influence of Dimethyl Sulfoxide Concentrations and In Vitro Culture on Equine Endometrial Tissue Explants
10:25-10:40	Ellis Wright	Effect of Plate to Bone Length on Mechanical Properties Using Locking Plate Constructs

**Session G**

**Room: Tickle Seminar Room**

**Moderator: Leslie Wereszczak**

**Judges: Michael McEntee and Liz Lennon**

<b>Time</b>	<b>Presenter's Name</b>	<b>Presentation Title</b>
9:25-9:40	Vincent Doré	Comparison of different resuscitation therapies for calves with neonatal diarrhea
9:40-9:55	Tena Ursini	Retrospective Analysis of Adverse Reactions Associated With 230 Allogenic Administrations of Bone Marrow-Derived Mesenchymal Stem Cells in 164 Horses
9:55-10:10	Ashley Hand	The impact of food-dispensing toys on the activity level of dogs
10:10-10:25	Katherine Hedges	Evaluation of the Efficacy of a Famotidine Continuous Rate Infusion in Healthy Dogs
10:25-10:40	Alex Viere	A Retrospective Study of Brain Lesions in Captive Non-Domestic Felids

**Session H**

Room: A118

Moderator: Mike Fry

Judges: Stephen Kania and Reza Seddighi

Time	Presenter's Name	Presentation Title
9:25-9:40	Trey Fisher	A scalable assembly method for siRNA-loaded Stealth liposomes
9:40-9:55	Pawat Pattarawat	Synergistic induction of cell death and reduction of drug resistance in human urinary bladder cancer cells by a triple combination of gemcitabine, cisplatin, and romidepsin
9:55-10:10	Rachael Wolters	The effect of polynucleotide kinase phosphatase (PNKP) on ZIKV replication
10:10-10:25	Niloofar Kazerooni	Virucidal activity of select disinfectants used in veterinary practices

***10:40 am - 11:00 am Break*****11:00 am - 12:00 pm Faculty Presentations****Session I**

Room: A335

Time	Presenter's Name	Presentation Title
11:00-11:30	Pierre-Yves Mulon	A comparison between barbed and non-barbed absorbable sutures for longitudinal theliotomy closure in an ex-vivo bovine model
11:30-12:00	Pierre-Yves Mulon	Mechanical evaluation of cannulated orthopedic screws reinforced with orthopedic cement and/or 316l ss pins to enhance resistance to bending

**Session J**

Room: Sequoyah Room

Time	Presenter's Name	Presentation Title
11:00-11:30	Melissa Kennedy	Detection and analysis of tick-borne infections in communal dogs of Zimbabwe
11:30-12:00	Madhu Dhar	Bench to stallside: translation of basic research into cell-based therapies in regenerative medicine

**Session K**

Room: A118

Time	Presenter's Name	Presentation Title
11:00-11:30	Naveen Rajasagi	Role of glucose metabolism in herpes simplex encephalitis
11:30-12:00	Reza Seddighi	Recent advances in the development of injectable-based anesthetic protocols

**To view abstracts, [click here](#)**