

The LSU School of Veterinary Medicine presents:

PHI ZETA

RESEARCH EMPHASIS DAY



FEBRUARY 28, 2024

8 AM - 2 PM

LSU School of veterinary Medicine

TAU CHAPTER OF PHI ZETA

Phi Zeta Research Emphasis Day is sponsored by the Tau Chapter of the Society of Phi Zeta—The National Honor Society of Veterinary Medicine. Phi Zeta recognizes and promotes scholarship and research in matters pertaining to the welfare and diseases of animals. Phi Zeta Research Emphasis Day promotes research in veterinary medicine; recognizes the research being conducted by our veterinary students, residents, graduate students and faculty; and encourages veterinary students to pursue careers in veterinary research. The Tau Chapter of Phi Zeta was established on March 30, 1977, with Dr. C.W. Titkemeyer as Chapter President. Phi Zeta is the abbreviation of the Greek word Philozoi, which means “love of animals.”

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Veterinary Medicine**

Where science meets passion

WHAT DOES PHI ZETA MEAN TO LSU VET MED?

The Phi Zeta Research Emphasis Day is an opportunity for our entire community to be engaged in a discussion of research and to foster the objectives of not only Phi Zeta but those of the School. The structure of this morning's program is such that it allows everyone to participate. Classes are canceled, and the Veterinary Teaching Hospital is closed except for emergencies.

Phi Zeta Research Emphasis Day includes a presentation by a biomedical scientist with veterinary experience, and posters are presented by students, House Officers, post-doctoral fellows, and faculty in the interlude between presentations. The presentations inform the school community and visitors of the diverse current research activities within LSU Vet Med. Posters presented by advanced studies students and professional students will be judged by a panel of scientists for prizes in the following categories: (1) post-doctoral researchers, (2) dissertation (PhD) students, (3) Master's students, (4) House Officers/Residents (non-PhD/non-Master's), (5) veterinary students, (6) undergraduate students, (7) care reports, and (8) faculty/others (non-competition category). The growth and quality of the event are a measure of the efforts of the LSU Vet Med community and our commitment to scholarly activity at all levels.

KEYNOTE SPEAKER: NATASHA OLBY

Natasha Olby received her veterinary degree from Cambridge University. She completed her PhD and a post-doctoral position at Cambridge University after a short period in mixed general practice. She is a professor of veterinary neurology and neurosurgery and a board-certified neurologist. Dr. Olby is a past president of the American College of Veterinary Internal Medicine Neurology Specialty (2008-2011). She is the 2014 recipient of the Faculty Achievement Award from the American Association of Veterinary Clinicians and the 2023 recipient of the AVMA Career Achievement in Canine Research. In 2017, Dr. Olby was awarded the Dr. Kady M. Gjessing and Rahna M. Davidson Distinguished Chair in Gerontology. She is the author or co-author of more than 200 scientific publications, is the co-editor of the British Small Animal Veterinary Association (BSAVA) Manual of Canine and Feline Neurology and has authored many book chapters. She runs the Canine Neuro-Aging Program and the Spinal Cord Injury Program and she is passionate about training the clinician scientists of the future.



PHI ZETA COMMITTEE MEMBERS

Emi Sasaki, DVM, DACVP, Assistant Professor of Veterinary Pathology, PBS

Jeanette Cremer, Dr.med.vet, DVM, DACVAA, Associate Professor of Veterinary Anesthesiology, VCS

Olalekan Michael Ogundele, MS, PhD, Associate Professor, CBS

Andrea Johnston, DVM, DACVIM, Assistant Professor of Small Animal Medicine, VCS

Ann Chapman, DVM, (LSU 2001), MS (LSU 2006), DACVIM (Large Animal), Associate Professor of Equine Medicine, VCS

Fabio Del Piero, DVM, PhD, DACVP, Professor, PBS

Tammy Dugas, PhD, Associate Dean for Research and Graduate Education

Oliver A. Garden, BVetMed, PhD, FHEA, FCPP, FRCVS, DACVIM, DECVIM-CA, Kenneth Burns Endowed Chair in Veterinary Medicine and Dean

Britta Leise, DVM, MS, PhD, Associate Dean for Staff and Faculty Advancement, Associate Professor of Equine Surgery, VCS

Colin Mitchell, BVMS, MS, DACVS, Director, Large Animal Services, Veterinary Teaching Hospital; Professor of Equine Surgery, VCS

Cherie Pucheu-Haston, DVM (LSU 1992), PhD, DACVD, Associate Dean for Clinical Services and Professor of Veterinary Dermatology, VCS

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Victoria Gravois, Business Office Coordinator

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Sarah Keeton, Research Associate

Whittney Lathan, PBS Coordinator

Thomas Rooney, Assistant Dean for Strategic Communications

Alex Sheets, Data Processing Analyst

Sophie Stine, PBS Student Worker

Qingxia Wang, Research Associate

Stephanie Willis, Registrar

Thank you to everyone who helped plan, coordinate, and execute this event!



PHI ZETA JUDGES

Basel Abuaita, PhD, Assistant Professor of Infectious Diseases, PBS

Amira Ahmed,, MSc, PhD, BVMS, Instructor of Parasitology PBS

Ethan Anderson, PhD, Assistant Professor, CBS

Frank Andrews, DVM, DACVIM, Head, Veterinary Clinical Sciences Department; Director, Equine Health Studies Program; Professor of Equine Medicine, VCS

William Beavers, MS, PhD, Assistant Professor PBS

Pilar Camacho, LV, Assistant Professor of Veterinary Ophthalmology VCS

Renee Carter, DVM (LSU 2000), DACVO, Professor of Veterinary Ophthalmology, VCS

Gabriel Castro, MS, DVM, Assistant Professor of Veterinary Anesthesia and Analgesia VCS

Ann Chapman, DVM, (LSU 2001), MS (LSU 2006), DACVIM (Large Animal), Associate Professor of Equine Medicine, VCS

Jonuel Cruz, DVM, MS, Assistant Professor of Equine Surgery VCS

Shannon Dehghanpir, DVM (LSU 2013), DACVP, VCS

Fabio Del Piero, DVM, PhD, DACVP, Professor of Anatomic Pathology, VCS

Levent Dirikolu, DVM, MVSc, PhD, Professor of Pharmacology, Comparative Biomedical Sciences CBS

Frederic Gaschen, Dr.med.vet, Dr.habil, Professor of Small Animal Medicine VCS

Antonieta Guerrero-Plata, BSc, MSc, PhD, Associate Professor, PBS

Ky Hoang, DVM, PhD, Assistant Professor (Research), PBS

Weishan Huang, PhD, Associate Professor, PBS

Duane Jeansonne, PhD, Assistant Professor (Research), PBS

Tomislav Jelesijevic, DVM, MS, PhD, DACVP, Assistant Professor, CBS

Seetharama Jois, MS, PhD, Professor PBS

Charles Lee, PhD, Associate Professor, CBS

Jeongha Lee, DVM, MS, Assistant Professor of Veterinary Pathology PBS

Britta Leise, MS, DVM (LSU 2002), PhD, DACVS, Associate Dean for Student and Faculty Advancement; Associate Professor of Equine Surgery, VCS

Juan Martinez, PhD, Director of Graduate Education, Professor, PBS

Jose Cesar Menk, MV, Assistant Professor of Veterinary Pathology, PBS

Colin Mitchell, BVMS, MS, DACVS, Director, Large Animal Services, Veterinary Teaching Hospital; Professor of Equine Surgery, VCS

Michelle Osborn, PhD, Associate Professor, CBS

Patricia Queiroz-Williams, DVM, Professor of Anesthesiology, VCS

Jeremy Redmond, DVM, Director of Clinical Skills, Assistant Professor of Equine Medicine, VCS

Laura Riggs, DVM, PhD, Associate Professor of Equine Surgery, VCS

Ryan Smith, DVM, Assistant Professor of Emergency and Critical Care, VCS

Brent Stanfield, PhD, Assistant Professor (Research), PBS

Rhett Stout, DVM (LSU 1994), PhD (LSU 2003), DACLAM, Interim Director, Division of Laboratory Animal Medicine; Associate Professor, PBS

Thomas Tully, DVM (LSU 1986), DABVP, DECZIM, Professor of Zoological Medicine, VCS

Nancy Welborn, DVM (LSU 1990), Associate Professor of Community Practice, VCS

Shaomian Yao, PhD, Associate Professor, CBS

Masami Yoshimura, BSc, MSc, DSc, Associate Professor, CBS

PHI ZETA RESEARCH EMPHASIS DAY SCHEDULE

Phi Zeta Kickoff: 8 - 8:15 a.m.

Dr. Emi Sasaki
President, Phi Zeta (Tau Chapter)
VMED 2101 (live), VMED 2103 (broadcast)

Dean's Welcome: 8:15 - 8:30 a.m.

Dr. Oliver Garden
Dean, LSU School of Vet Medicine
VMED 2101 (live), VMED 2103 (broadcast)

Poster Viewing and Judging: 8:30 - 11 a.m.

Second Floor Corridors

Keynote Speaker: 11 a.m. - 12 p.m.

Dr. Natasha Olby
VMED 2101 (live), VMED 2103 (broadcast)

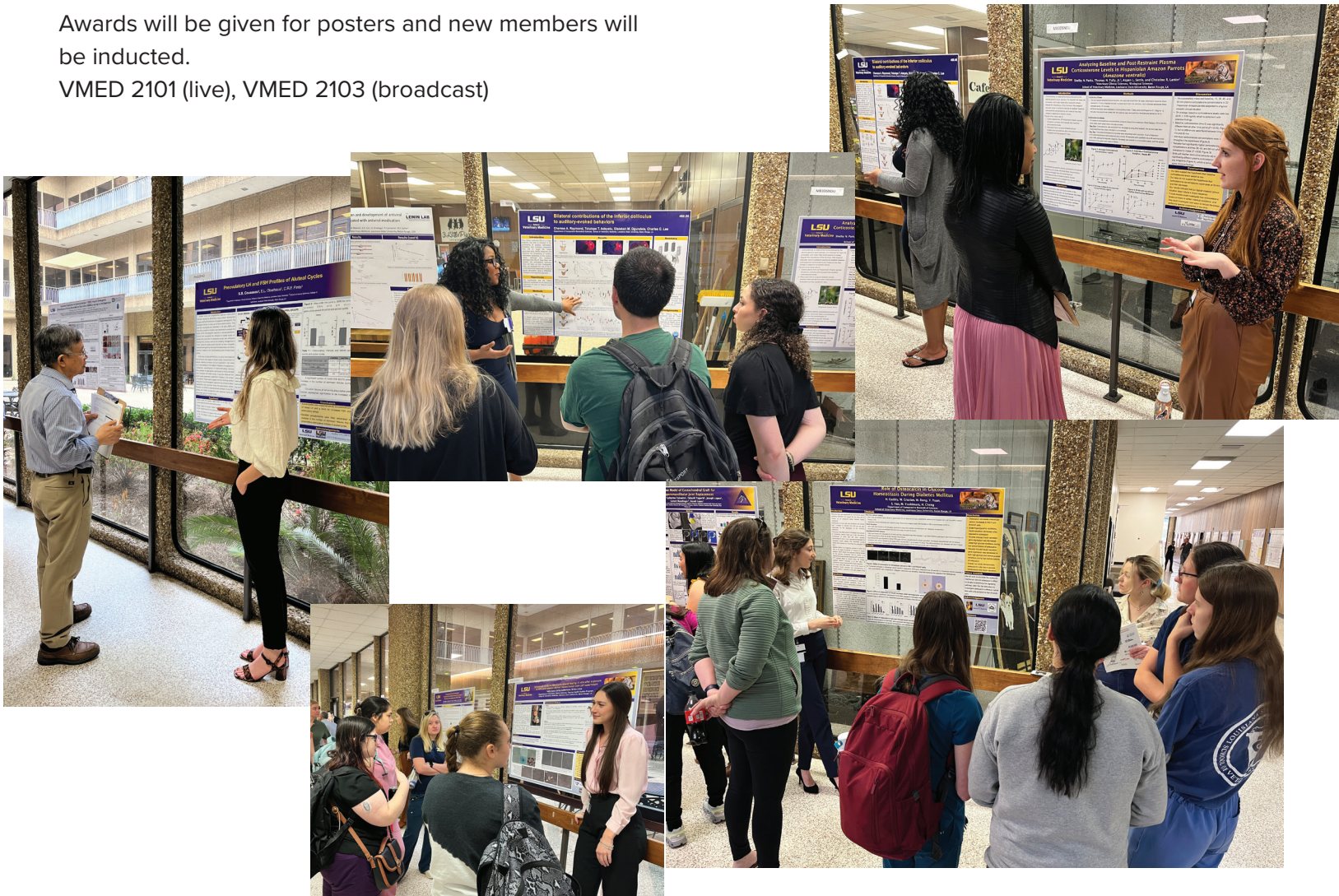
Awards Ceremony: 12:30 p.m. - 2 p.m.

Awards will be given for posters and new members will be inducted.

VMED 2101 (live), VMED 2103 (broadcast)

Abbreviations

CBS	Comparative Biomedical Sciences
CR	Case Report
HOR	House Officer
MS	Master's Student
PHD	Doctoral Student
PBS	Pathobiological Sciences
PDR	Post-doctoral Researchers
UGST	Undergraduate Student
VCS	Veterinary Clinical Sciences
VST	Veterinary Student



POSTER COMPETITION

CR1CR	Systemic Amyloidosis Causing Spontaneous Hepatic Rupture in a Domestic Short-Haired Cat	Case Report	William Holl
CR2CR	Postpartum Clostridial Metritis Due to Paenicostridium Sordellii In A Nigerian Dwarf Doe	Case Report	Mary Ella Robison
CR3CR	Asphyxiation due to smoke inhalation in a dog – case report	Case Report	Luis Tondo
CR4CR	Klebsiella pneumoniae infection in raccoons: report of three cases	Case Report	Matias Dorsch
CR5CR	White Spot Syndrome Virus in a Cohort of Imported Blue Crayfish (Procambarus alleni)	Case Report	Naomi Falconnier
MB2PHD	Early Developmental Exposure to Lead (Pb), A Risk Factor for Stress Related Disorders Investigated in Larval Zebrafish (Danio Rerio)	Research	Melanie Wilson
MB20PHD	A Novel Method for the Detection of Heterobilharzia americana Ova using RNA In Situ Hybridization	Research	Priscilla Devora
MB22PHD	Horseshoe Effects on In vivo Equine Gait Kinetics During the Walk	Research	Rita Aoun
MB29PHD	Development of a deer-adapted SARS-CoV-2 cDNA clone to evaluate spike variants arising in North American deer	Research	Wellesley Dittmar
MB33PHD	The NLRP10 Inflammasome Modulates Host Defense During Gram-Positive Bacteria-Induced Pneumonia	Research	John Le
MB38PHD	Role of AIM2 Inflammasome in Pulmonary Host Defense Against Methicillin-Resistant Staphylococcus aureus-induced Pneumonia	Research	Yathushigan Kulatheepan
MB40PHD	Effects of reLL-8 on Ex vivo Neutrophil Extracellular Traps (NETs) Formation in Healthy Horses	Research	Sydney Mordoh
MB46PHD	Effects of a Pre-maturation Treatment on Markers of Nuclear and Cytoplasmic Maturation of Equine Cumulus-Oocyte-Complexes.	Research	Sabrina Bellaver Cousseau
MB48PHD	Meta-analysis of the Effects of Adult Tissue-Derived Stem Cell Therapy on Equine Tendinopathy and Ligamentopathy	Research	Kiran Fida
MB52PHD	Unraveling the potential circuitry of BNST, CeA, and DRN triad on the neural regulation of positive and aversive stimuli.	Research	Ignitius Lim
MB53PHD	Unveiling the Potential Therapeutic Effect of Novel Interferon Response on Human Respiratory Pneumovirus Infections	Research	Ivan Martinez-Espinoza
MB54PHD	Establishing CAF-like and TAM-like transformation induced by TNBC culture supernatant in 3D in-vitro culture as a model for targeted drug testing	Research	Biplov Sapkota
MB55PHD	Caveolin-1 Knockout Mitigates Breast Cancer Metastasis to the Lungs via Integrin $\alpha 3$ Dysregulation	Research	Abhishek Pandit

POSTER COMPETITION

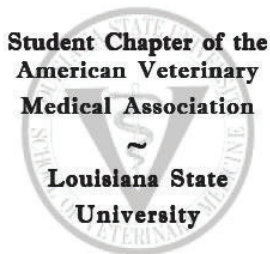
MB59PHD	Molecular Analysis of Antiviral Responses induced by Respiratory Pneumoviruses on Primary Human Epithelial Cells	Research	Pius Babawale
MB61PHD	Optimization of Equine Hoof Laminae Staining and Fixation for Micro-Computed Tomography	Research	Parisa Zeaiean Firouzabadi
FP0FP	Characterization and Transcriptional Landscape of Feline Leukemia Virus (FeLV)-induced Thymic Lymphoma in Cats	Faculty (Non-Competitive)	Paula Reis Ribeiro
MB9HOR	Prospective evaluation of immunomodulation induced by vincristine chemotherapy in dogs with treatment-naive high-grade multicentric lymphoma	Research	Amber Moses
MB23HOR	Characterization of the Dissemination of Canine Cancer Misinformation on YouTube	Research	Eliza Richartz
MB28HOR	Forensic Cases and the Use of 3-Dimensional Illustrations	Research	Bianca Santana de Cecco
MB31HOR	Autologous oral fecal microbiota transplantation and microbiome recovery after antibiotic treatment, a randomized controlled trial.	Research	Yi Kwan Lee
MB37HOR	Ex Vivo Comparison of One-Layer vs. Two-Layer Closures in End-to-End Anastomoses in Normal Equine Descending Colon	Research	Michael St. Blanc
MB57HOR	Evaluation of the Sedative and Cardiopulmonary Effects of Zenalpha in Sheep and Goats	Research	Alaina Kuehr
MB32MS	Kinase Inhibitors as a Potential Antiviral Drug against HSV-1 infection	Research	Christella Nelson
MB34MS	Effect of Pre-maturation Treatment on Nuclear Maturation of Domestic Cat Oocytes	Research	Victor Medina
MB35MS	Postmortem computed tomography characterization of high velocity projectile entry wound beveling in the canine skeleton	Research	Giselle Doucet
MB39MS	Effects of Bacterial Products, Inflammatory Mediators, and Insulin on the Phosphorylation of RPS6 and STAT3 in Equine Epidermal Cells	Research	Saige Annison
MB41MS	Assessment of potential risk factors associated with postoperative incisional infections in horses undergoing emergency celiotomy in Louisiana	Research	Kaitlyn Ieradi
MB43MS	Transgelin, Desmin, and Galectin-1 Expression in Canine Hepatobiliary Neuroendocrine Neoplasms	Research	Nadia Kelly-Richmond
MB45MS	Role of Acute Alcohol Exposure in Klebsiella pneumoniae Induced-Pneumonia	Research	PRANTHO MALAKAR DIPTA
MB30PDR	Development and immunogenicity of a vaccinia-vectored vaccine against equine rotavirus A	Research	Chandika Gamage
MB47PDR	Characterization of the PGAM5 Inhibitor LFHP-1c on Hepatocellular Carcinoma	Research	Ganesan Muthusamy

POSTER COMPETITION

MB60PDR	Epigenetic Control of Autophagy: A Pivotal Modification in Lung Cancer Cells Exposed to E-cigarettes	Research	Rizwana Begum
MB44UGST	Development of Small Molecule-based Intervention to Combat the Infection Caused by the Superbug Carbapenem-resistant <i>Klebsiella pneumoniae</i>	Research	Kennedy Trahan
MB50UGST	Investigating the Therapeutic Potential of Lung-Derived Mesenchymal Stem Cells in Pneumococcal pneumonia .pdf	Research	Allyson Mohanty-Aldana
MB1VST	Lactobacillus Supplementation Effects on Maternal-Fetal Outcomes of the BPH/5 Preeclamptic Mouse Model	Research	Jon LaCour
MB3VST	Can Sedatives Decrease Plasma Corticosterone in Hispaniolan Amazon Parrots (<i>Amazona ventralis</i>) During Restraint?	Research	Meridith Helms-Pack
MB3VST	The Effects of Targeted Pulse Electromagnetic Field Therapy on Canine Osteoarthritis of the Coxofemoral Joint	Research	Nicole Torres
MB4VST	Update on Synovial Fluid Analysis in Adult Dairy Cattle	Research	Trace Presley
MB5VST	Evidence for feline calicivirus as a primary corneal pathogen in domestic cats	Research	Daniela Saade
MB6VST	Characterization of Post-mortem Trauma After Fall from Height in Dogs and Cats	Research	Taina Rodríguez
MB7VST	Serum Glucose and Lactate Concentration Changes Over Time in Room-Temperature and Refrigerated Canine Whole Blood Samples	Research	Katherine Woolf
MB8VST	Linked resistance between arachidonic acid and vancomycin in <i>Staphylococcus aureus</i>	Research	Michelle MacIntyre
MB11VST	Morphological Evaluation of Canine Humeral Symmetry	Research	Ciara Miller
MB12VST	Ketamine Therapy Assessed in a Mouse Model of Alzheimer's Disease	Research	William Sitterson
MB13VST	Comparing the Developmental and Behavioral Effects of Exposure to PFAS-containing Aqueous Film Forming Foam to Proposed PFAS-free Alternatives Using the Zebrafish Model	Research	Patrik Rollefson
MB14VST	SK2 expression of the motor thalamus in normal motor function, and their dysregulation in Parkinson's disease	Research	Phillip Saint-Martin
MB15VST	Designing a Method to Deliver Noninvasive Pulsed Electromagnetic Field Therapy (PEMF) to Raptors	Research	Dominic Scheurer
MB16VST	Morphological Influence of Osteoderm Development in the American Alligator (<i>Alligator mississippiensis</i>) and its Implications for Understanding Heterotopic Ossification Disorders	Research	Katie Black

MB17VST	Multifocal Polyphasic Myositis in 14 Pelicans	Research	Mackenzie Hebert
MB18VST	Can Pain-Associated miRNAs be Used as Biomarkers for Colic in Horses?	Research	Janay Velez-Leon
MB19VST	Prevalence of endoparasites in native wildlife presented to the Wildlife Hospital of Louisiana	Research	Corrine Wang
MB21VST	Analysis of proliferation of genetically modified spotted fever group (sfg) Rickettsia species in mammalian cells	Research	Lucy Barré
MB24VST	Widening the Veterinary Forensics Arsenal: Gunshot Wounds in Canine Integument	Research	Christina Ulsh
MB25VST	Crossed Corticothalamic Projections of Prefrontal Cortical Modules	Research	Yan Zermeno
MB26VST	Effects of Prokinetic Drugs in Dogs with Clonidine-delayed Gastric Emptying	Research	Nicole Akers
MB27VST	Determining the Pharmacokinetic Properties of Two Different Doses of Hydromorphone in Barred Owls (<i>Strix varia</i>)	Research	Maryella Cohn
MB36VST	Range, Caliber, and Firearm Effects on Gunshot Wound Characteristics in Canine Integument	Research	Dalia Badamo
MB42VST	Expression of Adhesion Proteins in Low-Grade and High-Grade Canine Soft Tissue Sarcomas	Research	Emma Christopher
MB49VST	<i>Megasphaera elsdenii</i> : effect on blood/fecal pH and lactate in horses transitioned to high grain low fiber diet	Research	Christian Arias
MB51VST	Radiographic Measures in Unaffected and Laminitic Hooves with Distinct Shoes During Application of a Weightbearing Load	Research	Emily Smith
MB56VST	Assessing the Phenotype of Orthobunyaviruses in Louisiana Mosquitos	Research	Jordan Vivien
MB58VST	Role of Entresto in Doxorubicin-Induced Cardiotoxicity	Research	Alanna Costas Oramas
MB62VST	Whole Body Analysis of Joint Degeneration in the Fetlocks: A Case Study	Research	Gwyneth Miller

SPECIAL THANKS TO OUR SPONSORS



And special thanks to Wendy Wolfson, DVM (LSU 1986), associate professor of shelter medicine, for supporting this event.



School of Veterinary Medicine

About LSU Vet Med

Bettering lives through education, public service, and discovery

The LSU School of Veterinary Medicine is one of only 33 veterinary schools in the U.S. and the only one in Louisiana. LSU Vet Med is dedicated to improving and protecting the lives of animals and people through superior education, transformational research, and compassionate care. We teach. We heal. We discover. We protect.



- LSU Vet Med is a premier biomedical research facility with researchers investigating human and animal diseases and injuries.
- The LSU Vet Med Veterinary Teaching Hospital sees more than 21,000 cases each year and is open 24/7, 365 days a year.
- The LSU Vet Med Wildlife Hospital of Louisiana provides free care for more than 1,200 wildlife cases each year at no cost to the Good Samaritans who bring them to us.
- LSU Vet Med was the 19th veterinary school established in the U.S. and graduated its first class in 1977. Since then it has granted more than 3,500 DVM and almost 500 MS and Ph.D. degrees.
- LSU Vet Med offers M.S. and Ph.D. degrees in three academic departments: Comparative Biomedical Sciences, Pathobiological Sciences, and Veterinary Clinical Sciences.
- LSU Vet Med provides advanced training for veterinarians who work as interns and residents in our Veterinary Teaching Hospital, as well as post-doctoral fellowships for research scientists.
- LSU Vet Med provides veterinary and daily care for Mike VII, LSU's live tiger mascot.

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