



Research to **protect, treat and cure** animals.

2009 Winners

Sana Ahmend

Dog Bites: An Assessment of Veterinary and Pediatric Professionals
Understanding, Attitudes, and Practice
University of Pennsylvania

Chelsea Anderson

Pathogenic and Etiologic Mechanisms of Rehabilitation Management Factors
Contributing to Clostridium Difficile Clinical Disease in Neonatal
and Juvenile harbor Seals
Michigan State University

Johnattan Arango

A Biomechanical Evaluation of the Contribution of Drop Wires to the Stiffness of
Single Ring Circular Fixator Constructs
University of Florida

Mehnaz Aziz

Feasibility Study on Using Non-Surgical Sterilization as a Means of Street Dog
Population Control in Kathmandu, Nepal
Tufts University

Dionne Benson

Examination of Improvement in Equine Lameness after Diagnostic Blocks:
Comparing Subjective to Objective Estimates
University of Minnesota

Derek Calhoon

Comparison of Expert Versus Computer Detection of Pulmonary Nodules
During CT in Dogs
Cornell University

Ryan Centini

Determining the Role of UV Radiation Damage in Heritable Equine Regional
Dermal Asthenia (HERDA)
Mississippi State University

Rachael Cohen

Determination of Allelic Frequencies of Degenerative Myelopathy in Dogs
University of Missouri

Kourtney Cone

Risk of Leptospirosis in Terrestrial Wildlife: A Measure of Ecosystem Health
University of Illinois

Katherine Cummings

Equine Motor Neuron Disease: Function of Motor Neuron Glutamate Receptors
Michigan State University

Jennifer Darby

Gap Junctional Intercellular Communication of Normal, Dysplastic, and
Neoplastic Feline Mammary Tissues
Kansas State University

Jorge Diaz

Effect of the GnRH Antagonist, Acyline, on Domestic Cat Pregnancy
National University of La Plata

Lizette Durand

Generation of Antibodies to Study Marine Turtle Fibropapillomatosis
University of Pennsylvania

Laura Eberlein

Genomic Sequencing of Methicillin Resistant Staphylococcus Pseudintermedius
from Canine Pyoderma
University of Tennessee

Jennifer Eberly

Health Assessment of Feral Burro Population of St. John, USVI
Virginia Tech

Chelsie Estey

The Potential Resistance of Sea Lice on Farmed Atlantic Salmon to the Anti-
Ectoparasitic Drug, Emamectin Benzoate (SLICE®)
University of Prince Edward Island

Claire Fellman

Identification of Cyclosporine Targets in Activated Canine T Cells and Evaluation
of the Pharmacodynamics of Cyclosporine-Mediated Immunosuppression
in the Dog
Mississippi State University

Kristen Flaggs

Monitoring Gonadotropins in Przewalski's Mares (*Equus ferus przewalskii*) using
Noninvasive Techniques
Virginia Tech

Angela Fusello

Characterization of the DNA Damage Response Pathway in Canine Lymphoma
and Assessment of PARP1 Inhibitors as Novel Chemotherapeutic Agents
University of Pennsylvania

Nicole Giguere

Common Causes of Injury and Illness in Police Dogs: Improving Health and
Welfare Through Analysis of Risk
Western University of Health Sciences

Jenessa Gjeltema

Assessment of PAH Contamination in Puerto Rican Crested Toad Breeding Pool
Using SPMD Technology
North Carolina State University

Viviana Gonzalez

Frequency of Antibodies Against Leptospira Interrogans in Primates From Fam.
Cebidae, in Two Zoos of Colombia
Universidad de La Salle

Claudia Guerrero

Use of Transfer Factor as Complement in Medical Treatments to Improve
Immune Response in Dolphin Calves (*Tursiops truncatus*)
Universidad Nacional Autonoma de Mexico

Sumeet Gupta

Comparison of Vitamin D Levels in Captive Asian Elephants in the United States
Living in Various Latitudes
The Ohio State University

Lindsey Hedges

Evaluating the Benefits of Intensity-Modulated Radiation Therapy in Dogs
Purdue University

Chris Hencken

Comparison of Hematology and Plasma Biochemistry of Free-ranging Eastern
Massasauga Rattlesnakes and Eastern Fox Snakes in
Michigan and Captive Snakes
Michigan State University

Melinda Himler

Thyroid Hormone Concentrations in Critically Ill Foals
The Ohio State University

Janis Hooge

Detection of Tick-Borne Pathogens in Grant's Gazelle: Using Molecular
Techniques to Gain Basic Health Knowledge About an Important Antelope
Massey University

Christina Howard

The Development of a Tissue Culture Model for the Investigation of Equine
Gastrointestinal Disease
North Carolina State University

Michelle Hubin

The Pharmacokinetics of Piroxicam in Horses
Kansas State University

Sanne Hugen

mRNA Expression Profiling of Copper Associated
Chronic Hepatitis in the Labrador Retriever
Utrecht University

Gordon Hui

Construction of Functional Genomics Infrastructure to Facilitate the
Development of Genetic Diagnostics for Assessing Relevant Phenotypes in Wild
Avian Species
Western University of Health Sciences

Gina Johnson

Molecular Epidemiology and Spatial Analysis of Avian Mycobacteriosis in North
American Zoological Collections
Western University of Health Sciences

Anna Keo

Effect of Alternative and Complementary Treatments on Dogs with Osteoarthritis
of the Hip or Stifle
University of Tennessee

Meghan Kilgore

Association of CTLA-4 Polymorphisms with IMHA in Dogs
Auburn University

Yvonne Kline

Characterization of Members of the CYP3A Family in Raptors
University of California/Davis

Mark Madsen

Vector Identification for Leishmania Infantum Infection in American Foxhound
Dogs
Iowa State University

Yolanda Markley

Reproductive and Stress Endocrinology
Tuskegee University

Chelsey Miller

Role of alternative NSAIDs in repair of acid-injured stomach in dogs
North Carolina State University

Anna Mills

Serologic Screening for Antibodies to Rickettsia Species in
Cats and Opossums
Western University of Health Sciences

Ashley Mitek

The Effects of Detomidine Sedation during Pulmonary Function Testing in Horses
University of Illinois

Zachary Neumann

Investigating Phospholipase D2 Expressions in Canine Osteosarcoma
University of Illinois

Peter Noel

Detection of Bicarbonate Loading in Racehorses
Purdue University

Alexandra O'Keefe

Studies on Immune-Mediated Hemolytic Anemia
Focusing on American Cocker Spaniels
University of Pennsylvania

Ayeley Okine

Enrichment and Modified Feeding Schedule as Treatment for Destructive
Chewing In Rabbits
Cornell University

Christina Osborne

Evaluation of Platelet Size Heterogeneity and Beta1-Tubulin Gene and Amino
Acid Sequences in Big Cats and Domestic Cats
Auburn University

Cynthia Page

Investigating Leatherback Sea Turtle Nesting Success
The University of Georgia

Julia Paul

The Pharmacokinetics and Antinociceptive Effects of Nalbuphine in Dogs
Kansas State University

Andrea Quesada

Osteogenic Differentiation of Marrow and Adipose Tissue Derived Equine
Mesenchymal Stem Cells
The University of Georgia

Christine Reggiardo

Antitumor Effects of Histone Deacetylase Inhibitors in Feline Oral Squamous Cell
Carcinoma Cell Lines Grown in
Three-dimensional Culture
The Ohio State University

Stephanie Salyer

Molecular Epidemiology of Zoonotic Cryptosporidiosis in Humans, Primates, and
Livestock from Western Uganda
University of Wisconsin

Beulah Sherwood

The Behavioral and Physiological Effects of Animal Shelter Housing on
Pit Bull Terrier Breeds
Cornell University

Jeff Skaggs

Development of an Actinobacillus equuli Vaccine for Pregnant Mares
Oklahoma State University

Tracy Smith

The Importance of Physical Rehabilitation in the Recovery From Spinal
Cord Injury
University of Calgary Veterinary Medicine

Courtney Smith

Immunohistochemical Characterization of Intestinal Endocrine Cells in Neonatal
and Adult Alpacas and Llamas
Oregon State University

Chelsea Sonius

Investigation of the Association Between FVRCP Vaccination Grown on Crandell
Rees Kidney Cell Lines and Chronic
Renal Disease in Cats
Colorado State University

Lindsay Starkey

Characterization of Diversity of Hepatozoon spp. in Coyotes
Oklahoma State University

Dana Tedesco

Avian Ventriculus Koilin as a Predictor of Disease: a Retrospective Study
Michigan State University

Christina Terry

PECAM-1 in Cats with Hypertrophic Cardiomyopathy
University of California/Davis

Kirsten Thomas

Measuring the Effect of Human Interaction and Feeding on Green Sea Turtles
(*Chelonia mydas*) in Barbados
Ross University

Alex Tinson

Investigating Effective Methods of Student Learning in Cardiac Auscultation
Murdoch University

Taylor Towns

Identification of Critical Illness-related Corticosteroid Insufficiency in Adult Horses
Auburn University

Marike Visser

Role of Efflux Inhibitor Pump in Multidrug Resistance of Canine and Feline
Pathogenic *E. coli*
Auburn University

Heather Wallace

Etiologic Investigation and Epidemiology of a Protracted Respiratory Outbreak in
Shelter Dogs
Oklahoma State University

Chiahsin Young

Anti-Cancer Activity of Metformin Against a Panel of Canine Cancer Cell Lines
Colorado State University