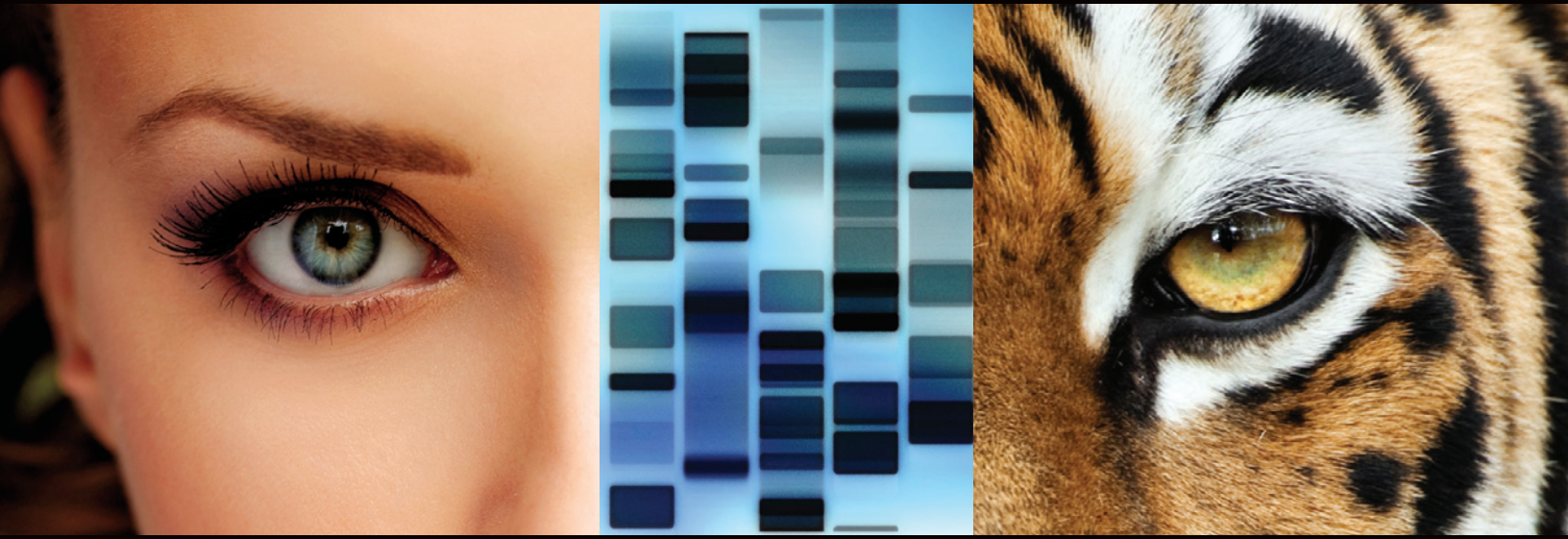


ZOOBIQUITY^{CONFERENCE}6

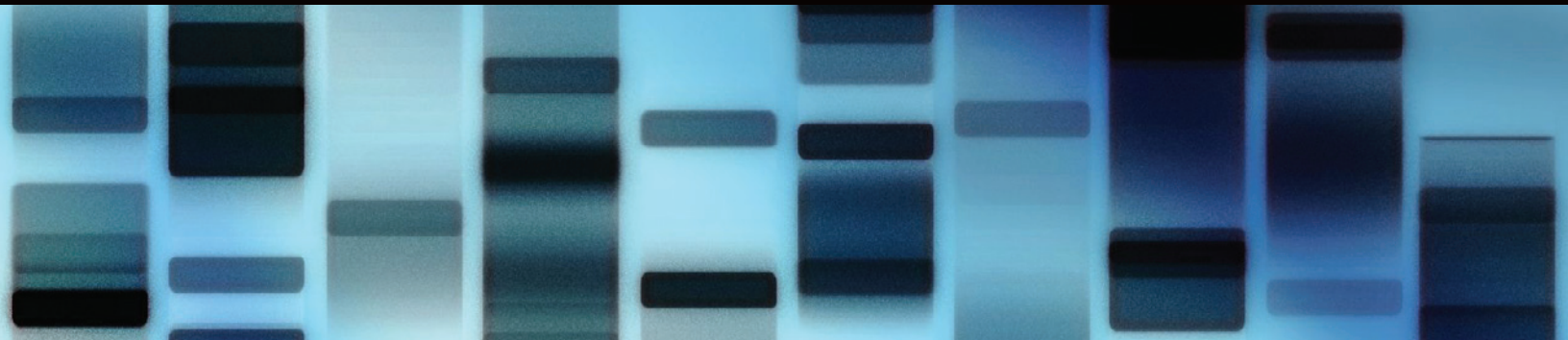
Philadelphia



Connecting Health and Medicine in Animals and Humans

April 2, 2016

Arthur H. Rubenstein Auditorium, Smilow Center for Translational Research,
Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania



Penn Medicine



PennVet



Pennsylvania
MEDICAL SOCIETY



Penn
Nursing Science

Connecting Health and Medicine in Animals and Humans

Zoobiquity springs from a simple but revelatory fact: Animals and humans get the same diseases, yet physicians and veterinarians rarely consult with one another. Zoobiquity explores how human and non-human animal commonalities can be used to diagnose, treat, and heal patients of all species. Drawing on the latest in medical and veterinary science—as well as evolutionary and molecular biology—Zoobiquity proposes an integrated, interdisciplinary approach to physical and behavioral health.

How does a French bulldog with atopic dermatitis impact human medicine? What can we learn from a feather-plucking parrot? Can a gorilla with heart disease teach us anything about human cardiology? Join us to find out!

On Saturday, April 2, 2016, leading clinicians and scientists in both veterinary and human medicine will examine the connections between animal and human health. Experts in veterinary and human medicine are often confronted with similar clinical challenges and shared diagnoses. Zoobiquity Conference 6 is designed to foster conversations and collaborations that can lead to new ways to diagnose, model, and treat diseases in all species.

Don't miss this extraordinary event—register today! Attendance is limited to the first 240 healthcare professionals and 70 students.

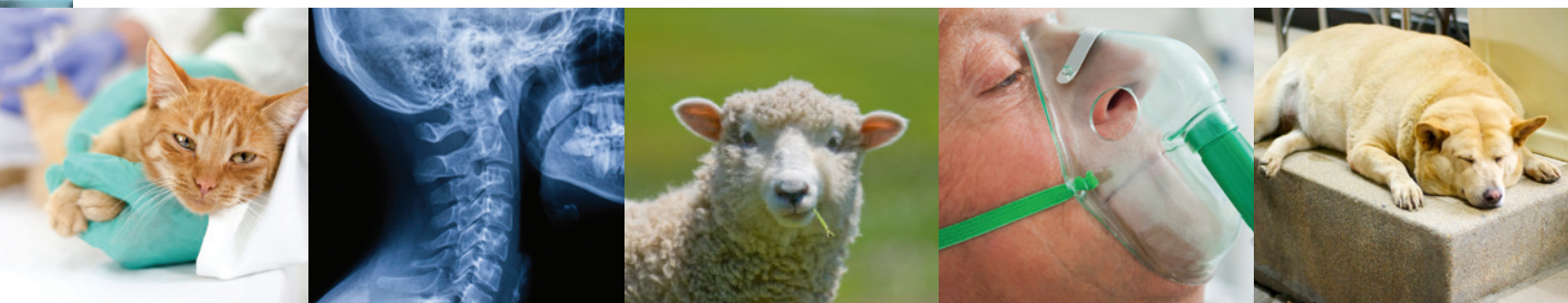
Continuing Education Credit

Up to 6.00 hours of continuing education credit are available for veterinarians and certified veterinary technicians through the Pennsylvania Veterinary Medical Association (PVMA). PVMA is an accredited provider of continuing education credit by the Pennsylvania State Board of Veterinary Medicine and the New York State Education Department.



Continuing Medical Education Credit

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the Pennsylvania Medical Society and Pennsylvania Veterinary Medical Association. The Pennsylvania Medical Society is accredited by the ACCME to provide continuing medical education for physicians. The Pennsylvania Medical Society designates this live activity for a maximum of 6.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



Schedule of Events—April 2, 2016

Morning Sessions will be held at the Arthur H. Rubenstein Auditorium, Smilow Center for Translational Research. Afternoon rounds are at three separate locations.

7:00 – 7:50am	Registration and Continental Breakfast
7:50 – 8:00am	Welcome and Opening Remarks—Dr. Barbara Natterson-Horowitz, Professor of Medicine, UCLA Division of Cardiology, David Geffen School of Medicine, University of California, Los Angeles
8:00 – 8:25am	Keynote Speaker: Comparative Medicine: Challenges and Opportunities—Dr. Stephanie Murphy, Director, Division of Comparative Medicine, National Institutes of Health
8:30 – 9:30am	Case Presentation 1—Atopic Dermatitis and the Cutaneous Microbiome
9:40 – 10:40am	Case Presentation 2—Sleep Apnea Causes and Pharmacotherapies
10:40 – 11:05am	Break
11:00am – 12:00pm	Case Presentation 3—Osteosarcoma Immunotherapy
12:00 – 12:30pm	Closing Remarks; Instructions for Lunch and Rounds—Dr. Barbara Natterson-Horowitz
12:30 – 12:40pm	Break into Groups for Rounds, Distribute Boxed Lunches
12:40 – 12:45pm	Board Buses and Depart for Offsite Rounds Locations
1:30 – 4:30pm	Afternoon Rounds at Hill Pavilion and Philadelphia Zoo
2:00 – 4:15pm	Afternoon Rounds at New Bolton Center
4:30 – 5:15pm	Buses Return from Philadelphia Zoo
4:15 – 5:30pm	Buses Return from New Bolton Center
5:30 – 7:00pm	Closing Reception at Smilow Center for Translational Medicine
	Final Remarks—Secretary Russell Redding, Pennsylvania Department of Agriculture

REGISTRATION

Registration is available to physicians, veterinarians, dentists, nurses, veterinary technicians, and allied health professionals in both human and animal medicine, as well as medical, veterinary, dental, and nursing students.

REGISTRATION FEES

\$249 – registration for healthcare professionals
\$75 – registration for students

ARTHUR H. RUBENSTEIN AUDITORIUM SMILOW CENTER FOR TRANSLATIONAL RESEARCH



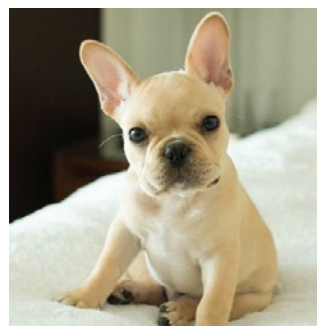
Atopic Dermatitis and the Cutaneous Microbiome—8:30–9:30am

FACULTY:

- Elizabeth Grice, PhD, Assistant Professor, Department of Dermatology, Perelman School of Medicine, University of Pennsylvania
- Charles Bradley, VMD, Lecturer, Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania
- Jennifer Gardner, MD, Assistant Professor of Dermatology, University of Washington, School of Medicine

CASES:

- Atopic dermatitis with secondary staphylococcal folliculitis in a three-year-old female spayed French bulldog
- Atopic dermatitis with secondary cutaneous staphylococcal overgrowth in a three-year-old girl



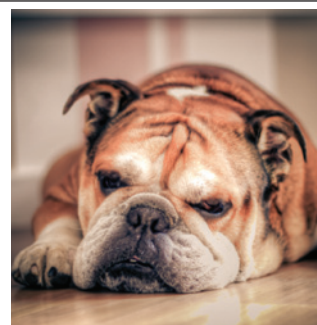
Sleep Apnea Causes and Pharmacotherapies—9:40–10:40am

FACULTY:

- Joan Hendricks, VMD, PhD, the Gilbert S. Kahn Dean, School of Veterinary Medicine, University of Pennsylvania
- Sigrid Veasey, MD, PhD, Professor, Department of Medicine, Perelman School of Medicine, University of Pennsylvania

CASES:

- Restless sleep and daytime hypersomnolence in a two-year-old male English bulldog
- Hypersomnolence, loud snoring, and obesity in a 40-year-old man



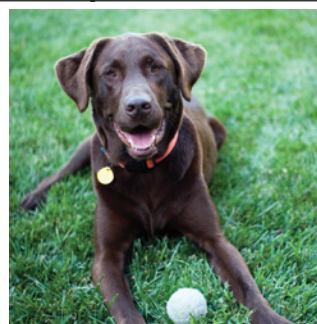
Osteosarcoma Immunotherapy—11:00am–12:00pm

FACULTY:

- Nicola Mason, BVetMed, PhD, Associate Professor of Medicine and Pathobiology, School of Veterinary Medicine, University of Pennsylvania
- Kristy Weber, MD, Professor, Department of Orthopaedic Surgery; Director of the Sarcoma Program, Abramson Cancer Center; Chief of Orthopaedic Oncology, Perelman Center For Advanced Medicine

CASES:

- Induction and effect of anti-tumor immunity in a nine-year-old male castrated Labrador Retriever with osteosarcoma
- Left distal femoral osteosarcoma with eventual metastatic disease to the lung in an eight-year-old boy



FIND US ONLINE

Visit www.zoobiquity2016.com for full details and online registration. The website will be updated continuously as program details are finalized—check often for updates!



QUESTIONS?

Contact Christine Gacono, Director of Education & Events
Pennsylvania Veterinary Medical Association
8574 Paxton Street, Hummelstown, PA 17036
cgacono@pavma.org; 888.550.7862



HILL PAVILION SCHOOL OF VETERINARY MEDICINE

AFTERNOON ROUNDS—1:30–4:30PM

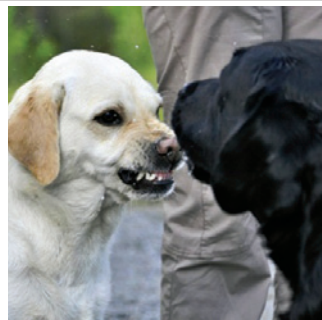
Affective Aggression and Impulsivity

FACULTY:

- Carlo Siracusa, DVM, PhD, Clinical Assistant Professor of Animal Behavior, School of Veterinary Medicine, University of Pennsylvania
- Stephanie Deutsch, MD, Child Abuse Pediatrics Fellow, The Children's Hospital of Philadelphia

CASES:

- Recurrent, affective aggression between two female, mixed-breed household dogs
- Recurrent, intra-familial perpetration of intimate partner violence



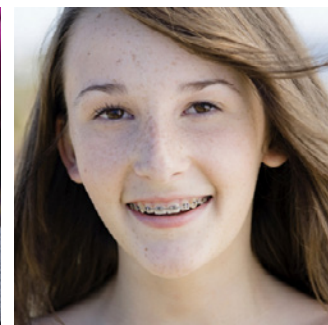
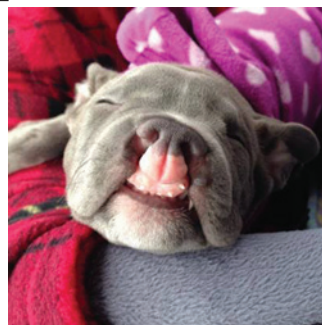
Cleft Lip and Palate

FACULTY:

- Maria Soltero-Rivera, DVM, Adjunct Assistant Professor of Dentistry and Oral Surgery, School of Veterinary Medicine, University of Pennsylvania
- Jesse Taylor, MD, Attending Surgeon, Division of Plastic and Reconstructive Surgery, Co-Director of the Cleft Lip and Palate Program, The Children's Hospital of Philadelphia

CASES:

- Secondary cleft palate repair in a juvenile dog
- Cleft lip and palate repair in a teenage patient



Self Injury: Feather Plucking Behavior in Parrots and Trichotillomania

FACULTY:

- La'Toya Latney, DVM, Service Head, Exotic Companion Animal Medicine, School of Veterinary Medicine, University of Pennsylvania
- Martin Franklin, PhD, Associate Professor of Clinical Psychology in Psychiatry; Director, Child and Adolescent OCD, Tics, Trichotillomania, and Anxiety Group (COTTAGE), Perelman School of Medicine, University of Pennsylvania

CASES:

- 14-year-old male intact African grey parrot with chronic feather-picking disorder
- Trichotillomania in a person



ACCOMMODATIONS

A block of rooms is being held for Friday, April 1, at the Homewood Suites by Hilton University City, located at 4109 Walnut Street in Philadelphia—approximately one mile from The Smilow Center for Translational Research. Reservations must be made before March 11, 2016, to obtain the discounted group rate of \$189/night. Please call 215.382.1111 and mention "Zoobiquity Conference" to make your reservation or visit www.Zoobiquity2016.com to make your reservation online. A complimentary full American breakfast, wireless internet and shuttle service throughout University City are included with your room.

NEW BOLTON CENTER SCHOOL OF VETERINARY MEDICINE

AFTERNOON ROUNDS—2:00–4:15PM



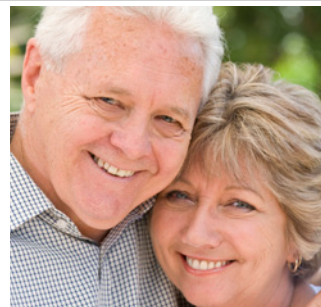
Atrial Fibrillation

FACULTY:

- JoAnn Slack, DVM, Associate Professor of Large Animal Cardiology and Ultrasound, School of Veterinary Medicine, University of Pennsylvania
- Robert D. Schaller, DO, Assistant Professor of Clinical Medicine, Perelman School of Medicine, University of Pennsylvania

CASES:

- Chronic atrial fibrillation in an upper level performance horse
- Atrial fibrillation in a person



Obesity and Aggression: The Dilemma of Fat and Happy vs. Lean and Mean

FACULTY:

- Tom Parsons, VMD, PhD, Associate Professor of Swine Production Medicine, School of Veterinary Medicine, University of Pennsylvania
- Tanja Kral, Associate Professor of Nutritional Sciences, School of Nursing, University of Pennsylvania

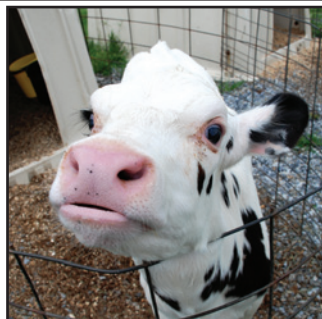
CASES:

- Managing nutritional and behavioral needs of domesticated pigs when housed in groups
- Cognitive, sensory, and nutritional controls of appetite and eating in children and adults and their relevance to obesity



Tour of New Bolton Center

Located on 700 acres in Chester County, Pennsylvania, Penn Vet's New Bolton Center is the University of Pennsylvania, School of Veterinary Medicine's large animal hospital and campus. New Bolton Center hospital handles more than 4,000 patient visits per year, while its field service veterinarians treat more than 37,000 patients on local farms. New Bolton Center is a leader in veterinary medicine, ranging from primary care through the most complicated and sophisticated medical and surgical techniques. Clinicians are board-certified in specialties including large animal internal medicine, cardiology, neurology, ophthalmology, reproduction, sports medicine, surgery, and emergency and critical care. Known for its pioneering work in diagnostic imaging, New Bolton Center recently installed and is developing protocols for a revolutionary robotics-controlled imaging system for use in the standing and moving horse. A leader in orthopedic surgery, New Bolton Center has a pool recovery system for horses awaking from anesthesia after complex fracture repair surgeries. The hospital features a state-of-the-art, biosecure critical care center, divided to accommodate colic patients on one side and patients being treated for infectious diseases on the other. New Bolton Center's campus also includes extensive diagnostic and research laboratories, as well as a swine center, a working dairy, and a poultry unit that provide valuable research for the agriculture industry. The Marshak Dairy has 180 milking cows, which produce a total of 1,500 gallons of milk per day. The Swine Teaching and Research Center, home for 200 sows and their piglets, features an open housing model that allows sows more freedom of movement than traditional gestation stalls.



WHAT'S INCLUDED WITH YOUR REGISTRATION?

- Continental breakfast, beverages, boxed lunch, and hors d'oeuvres and beverages at the closing reception
- Morning case presentations at Smilow Center for Translational Research
- Afternoon field trips with medical rounds at three locations— Hill Pavilion, New Bolton Center, and the Philadelphia Zoo
- Transportation for afternoon rounds at New Bolton Center and the Philadelphia Zoo.





PHILADELPHIA ZOO

AFTERNOON ROUNDS—1:30–4:30PM

Great Ape Cardiology and Management of Cardiac Disease

FACULTY:

- Tim Georoff, VMD, Associate Veterinarian, Philadelphia Zoo
- Gregg Pressman, MD, Associate Director, Cardiovascular Diseases Fellowship Program; Associate Director, Echocardiography Laboratory, Einstein Medical Center

CASES:

- Management of cardiomyopathy in a 30-year-old adult male silverback western lowland gorilla
- Management of cardiomyopathy and congestive heart failure in a 57-year-old male adult human



Severe Enteritis in a Pediatric Patient

FACULTY:

- Keith C. Hinshaw, DVM, Director of Animal Health, Philadelphia Zoo
- Louis M. Bell, MD, Chief of the Division of General Pediatrics, The Children's Hospital of Philadelphia

CASES:

- Severe enteritis and associated complications in an 18-month-old Coquerel's sifaka (*Propithecus coquereli*)
- Severe enteritis and associated complications in a five-month-old human infant with bloody diarrhea and seizures



Behavioral Variation in Response to Exposure to a Novel Environment

FACULTY:

- Marieke C. Gartner, PhD, Animal Behavior and Well-Being Postdoctoral Research Fellow, Philadelphia Zoo
- Margaret C. Souders, PhD, Assistant Professor of Human Genetics, School of Nursing, University of Pennsylvania; Pediatric Nurse Practitioner, Department of Child and Adolescent Psychiatry and Behavioral Sciences, The Children's Hospital of Philadelphia

CASES:

- Behavioral changes in animals with access to a novel trail system
- The effect of novel environments on non-verbal children, particularly those diagnosed with Autism Spectrum Disorder



Meet the Authors of Zoobiquity!

Zoobiquity: The Astonishing Connection Between Human and Animal Health

We are excited to announce that the authors, Dr. Barbara Natterson-Horowitz and Kathryn Bowers, will sign copies of their book during the closing reception. Books will be available for purchase.

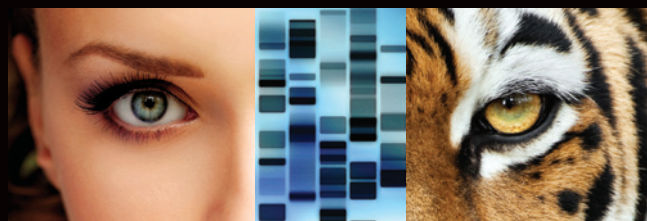
REGISTRATION FORM

ZOOBIQUITY

CONFERENCE

6

Philadelphia



Prefix First Name Last Name Degree

Email

Practice/Hospital/Organization Name

Business Address

City State Zip Code

Business Phone Mobile Phone (to receive conference-related texts)

ADA or Dietary Requirements Your Medical Specialty (if applicable)

1. Healthcare Professional Registration: \$249

- ☐ Allied Human Health Professional
- ☐ Dental Hygienist or Assistant
- ☐ Veterinarian

- ☐ Certified Veterinary Technician or Assistant
- ☐ Physician
- ☐ Other (Non-Clinician)—please indicate _____

- ☐ Dentist
- ☐ Nurse

Student Registration: \$75

- ☐ Dental Student
- ☐ Nursing Student
- ☐ Other Student—please indicate: _____
- ☐ Medical Student
- ☐ Veterinary Student

2. Afternoon Rounds Selection (Please indicate first choice. We will try to accommodate your request, but it cannot be guaranteed.):

- _____ Afternoon Rounds—Hill Pavilion
- _____ Afternoon Rounds—New Bolton Center
- _____ Afternoon Rounds—Philadelphia Zoo
- ☐ I will not participate in the afternoon rounds

3. I will attend the closing reception at Smilow Center for Translational Research, 5:30-7:00pm:

- ☐ Yes, I will attend
- ☐ No, I will not attend

Return this form to:
Pennsylvania Veterinary Medical Association
Attention: Christine Gacono
8574 Paxton Street
Hummelstown, PA 17036

You may also register online
at www.Zoobiquity2016.com
or scan this code with your
mobile device.



PAYMENT OPTIONS

- ☐ Check payable to PVMA
- ☐ Credit Card: ☐ Visa ☐ MasterCard ☐ Discover ☐ American Express

Name on Credit Card

Credit Card Number Expiration Date 3-Digit Security Code

Credit Card Billing Address

City State Zip

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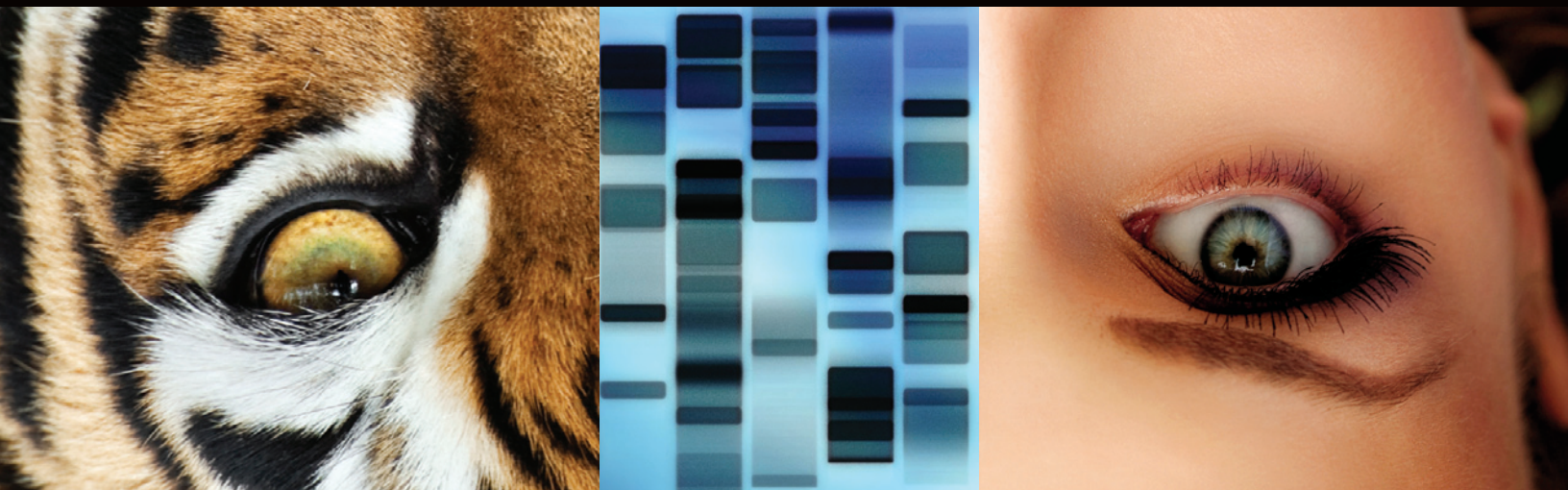


Pennsylvania Veterinary Medical Association
8574 Paxton Street
Hummelstown, PA 17036

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Connecting Health and Medicine in Animals and Humans

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