



# ZOOBIQUITY

## NEUROLOGY

## PSYCHIATRY

## CONFERENCE

FRIDAY, OCTOBER 21, 2016

NYU Langone Medical Center  
550 First Avenue • Alumni Hall, Classroom B • New York, NY 10016

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# PLANNING COMMITTEE

## COURSE DIRECTORS

### **Orrin Devinsky, MD**

Professor of Neurology, Neurosurgery and Psychiatry; Director, NYU Langone Comprehensive Epilepsy Center, NYU School of Medicine, New York, NY

### **Barbara Natterson-Horowitz, MD**

Professor of Medicine, UCLA Division of Cardiology; Adjunct Professor, UCLA Department of Ecology and Evolutionary Biology, Co-Director, Evolutionary Medicine Program, David Geffen School of Medicine at UCLA, Los Angeles, CA

### **Alexander J. Travis, VMD, PhD**

Associate Professor of Reproductive Biology; Associate Dean for International Programs, Cornell University College of Veterinary Medicine, Ithaca, NY

## COURSE PLANNERS

### **Genevieve Meredith, MPH, OTR**

Associate Director for International Programs and MPH, Cornell University College of Veterinary Medicine, Ithaca, NY

### **Kathryn Bowers**

Co-Director, Zoobiquity Research Initiative, Los Angeles, CA

### **Susan K. Kwan, MPH**

Executive Director, Zoobiquity Research Initiative, Los Angeles, CA

# COURSE FACULTY

### **Jordyn M. Boesch, DVM, VACVAA**

Lecturer of Anesthesiology, Cornell University College of Veterinary Medicine, Ithaca, NY

### **Sofia Cerda-Gonzalez, DVM**

Assistant Professor of Neurology/Neurosurgery; Section Chief of Neurology, Cornell University College of Veterinary Medicine, Ithaca, NY

### **Barbara Coffey, MD, MS**

Professor of Psychiatry; Chief of the Tics and Tourette's Clinical and Research Program, Mount Sinai Hospital, New York, NY

### **Kathryn Davis, MD, MSTR**

Assistant Professor of Neurology at the Hospital of the University of Pennsylvania, Philadelphia, PA

### **Daniel Friedman, MD**

Assistant Professor of Neurology; Co-Director, Special Procedures for the Epilepsy Service, NYU School of Medicine, New York, NY

### **Jesse Goldberg, MD, PhD**

Assistant Professor, Department of Neurobiology & Behavior, Cornell University, Ithaca, NY

### **Brian Hainline, MD**

NCAA Chief Medical Officer; Clinical Professor of Neurology, NYU School of Medicine, New York, NY

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## COURSE FACULTY CONTINUED

### **Katherine Houpt, VMD, PhD**

James Law Professor of Behavior Medicine – Emeritus, Cornell University College of Veterinary Medicine, Ithaca, NY

### **Daniel Lieberman, PhD**

Edwin M. Lerner II Professor of Biological Sciences; Chair, Department of Human Evolutionary Biology, Harvard University, Cambridge, MA

### **Jaak Panksepp, PhD**

Professor, Integrative Physiology and Neuroscience, Washington State University, Pullman, WA

### **Irene Pepperberg, PhD**

Research Associate, Department of Psychology, Harvard University, Cambridge, MA

### **Pamela J. Perry, DVM, PhD**

Lecturer of Behavior Medicine, Cornell University College of Veterinary Medicine, Ithaca, NY

### **Martin A. Samuels, MD**

Professor, Department of Neurology, Harvard Medical School; Chair of Neurology, Brigham and Women's Hospital, Cambridge, MA

### **Gary W. Small, MD**

Director, Geriatric Psychiatry, UCLA Longevity Center; Professor, Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA

### **Richard W. Tsien, DPhil**

Druckenmiller Professor of Neuroscience; Professor of Neurology; Chair, Department of Physiology and Neuroscience; Director, Neuroscience Institute, NYU School of Medicine, New York, NY

### **Charles Vite, DVM, PhD**

Associate Professor Veterinary Neurology, Section of Neurology & Neurosurgery, Department of Clinical Studies, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA

### **Fred R. Volkmar, MD**

Irving B. Harris Professor of Child Psychiatry, Pediatrics, and Psychology and Director of Yale University Child Study Center, Yale University School of Medicine; Chief of Child Psychiatry, Yale-New Haven Hospital, New Haven, CT

### **Thomas Wisniewski, MD**

Lulu P. and David J. Levidow Professor of Neurology; Professor of Pathology and Psychiatry; Associate Chair for Research, Department of Neurology; Director, Division of Cognitive Neurology, NYU Langone School of Medicine and Medical Center, New York, NY

### **Paul B. Yellin, MD**

Clinical Associate Professor of Pediatrics, NYU School of Medicine; Director, The Yellin Center for Mind, Brain, and Education, New York, NY

## COURSE DESCRIPTION

Comparative medicine once occupied a primary position in medical thought and education. Today, although the spectrum of clinical illness in humans and non-human animals overlaps tremendously, veterinary and human clinicians operate in largely separate professional silos. *Zoobiquity*, a term coined by Dr. Barbara Natterson-Horowitz and Kathryn Bowers, describes a new, species-spanning approach to health and disease that draws on expertise from veterinary medicine, human medicine, and evolutionary biology. The ***Zoobiquity Neurology & Psychiatry Conference***, the first specialty-oriented conference in a national conference series, will create relationships and exchange of knowledge between human and veterinary colleagues confronted with similar clinical challenges.

## TARGET AUDIENCE

Neurologists, veterinary neurologists, psychologists, psychiatrists, veterinary behaviorists, veterinary technicians, nurses, neurobiologists and neuroscientists, and clinical trainees.

## STATEMENT OF NEED

Clinicians and researchers who study human epilepsy are often unaware of clinical observations and research findings from the veterinarian field. Specifically, understanding the neurophysiological changes that precede seizures and may allow prediction or early identification of seizures in animals could translate into better therapies for patients with epilepsy. Clinicians who care for patients with anxiety and obsessions as well as researchers who study these clinical disorders are often unaware of relevant data from veterinary medicine. Understanding clinical examples of anxiety disorders and compulsions in animals can inform our understanding and modeling of human disorders. Clinicians who care for adults with cognitive decline syndromes due to neurodegenerative disorders as well as researchers who study these human disorders are often unaware of clinical observations and research findings from the field of veterinary medicine.

There is a need to increase awareness of how animal disorders can inform our understanding of human cognitive decline syndromes. Clinicians and researchers who care for and study patients with autism spectrum disorders can benefit from a deeper understanding of animal models of autism, and how these models can help to inform our understanding of pathophysiology and the development of novel therapies. Clinicians and researchers who care for and study Parkinson's disease often have limited knowledge of animal disorders that mimic this neurodegenerative movement disorder. A deeper understanding of the non-human animal disorders that overlap with Parkinson's disease, as well how the human disorder relates to the animal disorder, can enhance understanding of pathophysiology and therapy. Clinicians and researchers who care for and study patients with pain disorders can gain insights into the mechanisms that underlie pain disorders as well as potential models to assess and treat pain by a deeper understanding of spontaneous animal pain syndromes and their treatment.



# EDUCATIONAL OBJECTIVES

At the conclusion of this activity, participants should be able to:

- Define approaches to seizure prediction in animals and humans and other animal species
- Describe the mechanisms that cause anxiety and compulsions
- Recognize and assess cognitive decline syndromes in humans
- Define the pathophysiology, assessment and treatment of autism spectrum disorders and Parkinson's disease
- Identify the pathophysiology of pain syndromes and formulate treatment plans

## ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the NYU Post-Graduate Medical School, the Cornell University College of Veterinary Medicine, and the Evolutionary Medicine Program at UCLA. The NYU Post-Graduate Medical School is accredited by the ACCME to provide continuing medical education for physicians.

## CREDIT DESIGNATION STATEMENTS

### Continuing Medical Education

The NYU Post-Graduate Medical School designates this live activity for a maximum of **7.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### New York State Continuing Education Credit

Cornell University College of Veterinary Medicine is an approved New York State continuing education sponsor. The Zoobiquity Neurology and Psychiatry Conference has been submitted for 7.25 hours of continuing education credit (approval pending) for veterinarians attending this conference.

### Registry of Approved Continuing Education Credit (RACE)

This conference has been submitted (approval pending) for 7.25 hours of continuing education credit in jurisdictions that recognize AAVSB RACE approval. However, participants should be aware that some state veterinary boards have limitations on the number of hours accepted in certain categories and/or restrictions on methods of delivery of continuing education.

## DISCLOSURE STATEMENT

*The NYU Post-Graduate Medical School adheres to ACCME accreditation requirements and policies, including the Standards for Commercial Support regarding industry support of continuing medical education. In order to resolve any identified conflicts of interest, disclosure information is provided during the planning process to ensure resolution of any identified conflicts. Disclosure of faculty and commercial relationships, as well as the discussion of unlabeled or unapproved use of any drug, device or procedure by the faculty, will be fully noted at the meeting.*

# COURSE AGENDA

- 7:30 AM **Continental Breakfast, Registration & Poster Session**
- 8:30 AM **Welcome & Introduction**
- 8:45 AM **OPENING KEYNOTE**  
**The Affective Neuroscience of Mammals**  
Jaak Panksepp, PhD
- 9:30 AM **Seizure Prediction in Humans & Dogs**  
Kathryn Davis, MD, MSTR • Charles Vite, DVM, PhD  
**Session Organizer:** Daniel Friedman, MD
- 10:15 AM **Coffee Break**
- 10:30 AM **Anxiety & Compulsions in Human, Feline & Canine Patients**  
Barbara Coffey, MD, MS • Pamela J. Perry, DVM, PhD
- 11:15 PM **Cognitive Decline Syndromes in People & Animals**  
Katherine Houpt, VMD, PhD • Gary W. Small, MD • Thomas Wisniewski, MD
- 12:15 PM **Lunch | Poster Session & Competition**
- 1:15 PM **The Autistic Phenotype: Of Mice & Men**  
Richard W. Tsien, DPhil • Fred R. Volkmar, MD
- 2:00 PM **Movement Disorders in People & Pets**  
Sofia Cerda-Gonzalez, DVM • Martin A. Samuels, MD
- 2:45 PM **Coffee Break**
- 3:00 PM **Pain in Humans & Animals**  
Jordyn M. Boesch, DVM, VACVAA • Brian Hainline, MD
- 3:45 PM **Learning & Language Acquisition in Students, Songbirds & Parrots**  
Jesse Goldberg, MD, PhD • Irene Pepperberg, PhD • Paul B. Yellin, MD
- 4:45 PM **CLOSING KEYNOTE**  
**Mismatch Diseases in Humans & Other Animals**  
Daniel Lieberman, PhD
- 5:30 PM **Closing Remarks**
- 5:45 PM **Adjourn & Reception**

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[www.med.nyu.edu/cme/zoob](http://www.med.nyu.edu/cme/zoob)

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PRINT ALL INFORMATION CLEARLY IN BLOCK LETTERS AND NUMBERS.

After 12 pm on October 19, 2016, only onsite registration is available, provided the course has not reached capacity. Onsite registrants will incur an additional \$20 charge and will receive a receipt by email in 1-2 weeks.

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### ENROLLMENT CONFIRMATION:

Please supply your email address to receive a confirmation letter. Make sure your email address is clearly written.

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(REQUIRED FOR CME CREDIT)

COURSE FEES	Early-Bird Rates <i>(Ends on 9/2/16 at 11:59 PM EST)</i>	Regular Rates
Full	<input type="checkbox"/> \$275	<input type="checkbox"/> \$350
Reduced*	<input type="checkbox"/> \$200	<input type="checkbox"/> \$275
Students / Clinical Residents / Fellows <i>(must provide proof of status)</i>	N/A	<input type="checkbox"/> \$85

\* Reduced fee applies to NYU School of Medicine and Cornell University College of Veterinary Medicine faculty, staff, alumni, former residents and fellows; physicians employed by the Department of Veterans Affairs Medical Center; full-time active military personnel; retired physicians; and all other non-physician healthcare professionals.

**METHODS OF PAYMENT:** Cash, email and phone registration are not accepted. If faxing, do not mail or refax. This will only result in a duplicate charge to your account. Registration is non-transferable.

☐ Check in U.S. Dollars Only: \$ \_\_\_\_\_

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*(Foreign registrants, including those from Canada, must pay by International Postal Money Order or credit card.)*

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**REFUND POLICY:** In order to request a refund, you must email [maria.mercado@nyumc.org](mailto:maria.mercado@nyumc.org) **no later than 14 days prior to the first day of the course.** To process a refund an administrative fee of \$75 will be deducted from your total refund. Cancellations or no-shows after this date are not eligible for a refund.

**CANCELLATION POLICY:** If a course is cancelled due to inclement weather, insufficient enrollment, or any other reason, NYU PGMS will refund registration fees in full. NYU PGMS will provide at least two weeks' advance notice if cancelling due to insufficient enrollment and as soon as possible in all other circumstances. NYU PGMS is not responsible for any airfare, hotel, or other non-cancellable costs incurred by the registrant.

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