



# ZOOBIQUITY CONFERENCE

Hosted by *Office of Continuing Education*

September 13, 2019 - 7:30am - 8:30pm

Venue: Emory University Conference Center / 1615 Clifton Rd / Atlanta, GA 30329 / United States

The University of Georgia College of Veterinary Medicine, in partnership with Emory University and the Clinical Translational Science Alliance (CTSA), will host Zoobiquity ATL September 13, 2019 at the Emory Conference Center in Atlanta. The latest in a long line of conferences celebrating the best-selling book *Zoobiquity*, the conference will bring together veterinary and human medicine professionals to advance biomedical innovation through collaboration.

The one-day event features speakers from the University of Georgia, Emory University, Harvard University, and the Centers for Disease Control on topics spanning the opioid crisis, non-Hodgkins lymphoma in dogs and humans, stem cell research, and regenerative medicine, to name a few. The keynote speaker will be Frans de Waal, whose book *Mama's Last Hug: Animal Emotions and What They Tell Us about Ourselves* pays homage to Mama, the alpha female of a famous chimpanzee colony on a forested island at the Royal Burgers' Zoo, the Netherlands.

He will explore the evidence for animal emotions, starting with primate facial expressions. They laugh when tickled, pout when disappointed, and stare with a frown when angry. Charles Darwin concluded long ago that if apes use expressions similar to ours under similar circumstances, the underlying emotions are probably similar, too. We possess not a single organ that is unique to us. Similarly, although we have emotions that go deeper or are more varied than in other species, none of them is entirely new. He'll discuss empathy and disgust as examples.

Registration for the event will begin at 7:30 a.m. with speakers beginning at 8 a.m. and concluding at 4:30 p.m. The closing reception will take place at Zoo Atlanta from 5:30 p.m. to 8:30 p.m. where guests will have the opportunity to talk with speakers and visit the exhibits throughout the park.

**This program has been approved for 6.5 hours of continuing education credit in jurisdictions that recognize RACE approval. CME credit is pending.**

This activity has been planned and implemented in accordance with the Essential Areas and Polices of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Emory University School of Medicine and the University of Georgia College of Veterinary Medicine. The Emory University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The Emory University School of Medicine designates this live activity for a maximum of 7.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

# EVENT AGENDA

09/13/2019

Start Time	End Time	Event
7:30 am	8:00 am	<b>Registration and Breakfast</b>
8:00 am	8:15 am	<b>Welcome &amp; Opening Remarks</b> Bradley G. Phillips, PharmD, BCPS, FCCP
8:15 am	9:30 am	<b>Mama's Last Hug: Animal and Human Emotions</b> Frans de Waal, PhD
9:30 am	10:30 am	<b>Management of Non-Hodgkins Lymphoma in Humans and Dogs - Past, Present, and Future Directions</b> Corey Saba, DVM, and Jonathon B. Cohen, MD, MS
10:30 am	10:45 am	<b>Break</b>
10:45 am	11:45 am	<b>PRP/Stem Cell Therapies: Clinical Application of Orthobiologic Injections For Human and Animal Use: What We Know and What We Need to Find Out</b> Sam Franklin, DVM, PhD, and Kenneth Mautner, MD
11:45 am	12:45 pm	<b>Lunch</b>
12:45 pm	1:45 pm	<b>Regenerative Medicine and Wound Healing</b> John Peroni, DVM, and Luke Brewster, MD, PhD, MA, RVT
1:50 pm	2:50 pm	<b>One Health and Salmonellosis Surveillance and Response</b> Sonia Hernandez, DVM, DACZM, PhD, and Megin Nichols, DVM, MPH, DACVPM
2:50 pm	3:50 pm	<b>Getting to the Heart of the Matter- What the Giraffe Cardiovascular System Can Teach Us About Great Apes and Humans and Other Cardiac Lessons Across Species</b> Hayley Murphy, DVM, and Barbara Natterson-Horowitz, MD
3:50 pm	4:00 pm	<b>Break</b>
4:00 pm	4:30 pm	<b>Human Opioid Abuse: Impact on Veterinarians</b> Randall Tackett, PhD
5:30 pm	8:30 pm	<b>Tour/Visit Zoo Atlanta</b> Closing Remarks, networking, cocktails, and appetizers

## **SPEAKERS**

### **Frans B. M. de Waal, PhD**

Dr. Frans B. M. de Waal is a Dutch/American biologist and primatologist known for his work on the behavior and social intelligence of primates. His first book, *Chimpanzee Politics* (1982), he compared the schmoozing and scheming of chimpanzees involved in power struggles with that of human politicians. His scientific work has been published in hundreds of technical articles in journals such as *Science*, *Nature*, *Scientific American*, and outlets specialized in animal behavior. His popular books – translated into 20+ languages – have made him one of the world’s most visible primatologists. His latest books are *Are We Smart Enough To Know How Smart Animals Are?* (Norton, 2016) and *Mama’s Last Hug* (Norton, 2019). De Waal is C. H. Candler Professor in the Psychology Department of Emory University and Director of the Living Links Center, in Atlanta, Georgia. He was selected in 2007 by *Time* as one of *The Worlds’ 100 Most Influential People Today*.

### **Luke P. Brewster, MD, PhD, MA, RVT**

Dr. Brewster’s clinical practice is focused on general vascular surgery and peripheral arterial disease with a clinical research interest in the use of ultrasound to diagnose and treat vascular disease, the patient and surgeon perspective in surgical decision-making, selection and outcomes of carotid artery stenosis therapy, and optimal therapy for limb salvage. His lab is investigating the biomechanical mechanisms that contribute to pathologic arterial remodeling in peripheral arterial disease, developing regenerative strategies for use in ischemic tissue, and working to improve the function of patients who have undergone major amputation.

Through his joint affiliations with the Atlanta Clinical and Translational Science Institute and the Wallace Coulter Department of Biomedical Engineering at Georgia Tech/Emory, Dr. Brewster has access to an exceptional pool of collaborators, and has received a steady stream of various federal, foundation, and industry grants. His recent studies have included investigations of the molecular process of disturbed flow in arterial stiffening and evaluations of types of medical imaging as decision support tools in assessing fibrosis and sarcopenia in combat casualty amputees.

### **Jonathon B. Cohen, MD, MS**

Jonathon B. Cohen, MD, MS, is an assistant professor in Hematology and Medical Oncology at the Emory University School of Medicine. He completed his clinical fellowship in hematology and oncology at The Ohio State University- James Cancer Center prior to joining the faculty at Emory.

Dr. Cohen’s clinical focus is on the treatment of Hodgkin’s and non-Hodgkin’s lymphoma, as well as Chronic Lymphocytic Leukemia, where he manages both newly diagnosed patients as well as those requiring stem cell transplantation and treatment for relapsed disease.

Dr. Cohen's research focus includes the clinical investigation of lymphoma, where he aims to identify prognostic markers and designs clinical trials with novel agents for patients with relapsed disease. He leads national studies of new therapies and oversight of prognostic markers in lymphoma. He is also frequently asked to serve as a faculty member of workshops for new investigators.

Dr. Cohen earned his undergraduate degree at Emory University and received his medical degree at the University of Florida College of Medicine, where he earned his MD. He completed a residency in internal medicine and fellowship in hematology and medical oncology at The Ohio State University in Columbus, Ohio. During his fellowship, he also completed a master's degree in medical science, gathering additional training in the conduct of clinical and translational research.

### **Samuel P. Franklin, MS, DVM, PhD, DACVS-SA, DACVSMR**

Dr. Franklin completed his DVM at Colorado State University and his surgical residency and PhD at the University of Missouri and is a diplomate of the American College of Veterinary Surgeons and the American College of Veterinary Sports Medicine and Rehabilitation. He spent several years as an assistant professor at the University of Georgia before joining Colorado Canine Orthopedics and Rehab in 2018. His research is focused on assessment of biological therapies for treating osteoarthritis and cartilage defects in dogs. Additional areas of clinical interest and research investigation include non-invasive imaging of the musculoskeletal system (MRI, ultrasonography, needle arthroscopy) and a focus on arthroscopy and minimally invasive surgical techniques.

### **Sonia M. Hernandez, DVM, DACZM, PhD**

Sonia is a Professor who has been in a joint position at the Warnell School of Forestry & Natural Resources and the College of Veterinary Medicine—at the Southeastern Cooperative Wildlife Disease Study since 2008. She holds a DVM from LSU and PhD in Ecology from UGA. She is a Diplomate of the American College of Zoological Medicine. She teaches various courses to undergraduate, graduate and veterinary students, including Wildlife Disease Investigation for graduate students and a study abroad Conservation Medicine & Biology course in Costa Rica. Her lab is dedicated to investigating wildlife diseases, and specifically how human activities affect the ecology, health/diseases of wildlife. She is widely published in the field of wildlife diseases. In 2013 she received Warnell's Outstanding Teaching Award, in 2017 she was awarded the University-wide Richard B. Russell Award for Excellence in Teaching and in 2018, Professor of the Year at Warnell. She is the proud mom of Paxton, and twins, Ashton and Maya.

### **Kenneth R. Mautner, MD**

Dr. Ken Mautner is Associate Professor in the Department of Physical Medicine and Rehabilitation and the Department of Orthopedic Surgery at Emory University in Atlanta, GA. He is board certified in PM&R with a subspecialty certification in Sports Medicine. He is the Director

of Sports Medicine at Emory and Fellowship Director for the ACGME accredited Sports Medicine Fellowship. Dr. Mautner is co-editor of the Atlas of Interventional Musculoskeletal Ultrasound as well as Musculoskeletal Physical Exam: An Evidence Based approach. In addition, He is considered a leader in the field of ultrasound and orthobiologic treatment for chronic soft tissue and joint disorders and has published numerous studies in these areas with ongoing clinical trials. Dr. Mautner serves as Head Team Physician for the Atlanta Hawks and Harlem Globetrotters as well as a team physician for the Atlanta Braves, Emory University, and Georgia Tech.

### **Hayley Murphy, DVM**

Dr. Hayley Weston Murphy, graduated from Cornell University College of Veterinary Medicine in 1992. Dr. Murphy then worked full time as a small animal and equine veterinarian for 3 years after graduation. She was accepted into a veterinary internship at Zoo New England (Boston, MA) in 1995, where she eventually became the Director of Veterinary Services 2008. Dr. Murphy started at Zoo Atlanta in 2009 and is currently the Deputy Director. She is a recent graduate of the Executive Leadership Development program of the Association of Zoos and Aquariums (AZA) and is also founder and director of the Great Ape Heart Project, based at Zoo Atlanta and funded by the Institute of Museum and Library Services. Dr. Murphy is a veterinary advisor to the Gorilla Species Survival Plan (SSP) and chair of the Veterinary Advisory group for the Association of Zoos and Aquariums Scientific Advisory Group. When not at work- she is the mother of two children and wife to Dr. David Murphy, a small animal veterinarian in Kennesaw, GA.

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

Dr. Barbara Natterson-Horowitz is a Visiting Professor in Harvard University's Department of Human Evolutionary Biology, Professor of Medicine in the UCLA Division of Cardiology and co-director of UCLA's Evolutionary Medicine Program. Her research is directed towards identifying natural animal models of resistance to cardiovascular and other disorders. In 2011 she founded the Zoobiquity Conferences, a US and international initiative bringing human and veterinary experts together to accelerate biomedical innovation.

Dr. Natterson-Horowitz studied evolutionary biology as an undergraduate and graduate student, receiving bachelor's and master's degrees from Harvard. She attended UC San Francisco for medical school followed by post-graduate training at UCLA including internal medicine residency and chief residency, and cardiology fellowship with advanced training in heart failure and cardiac imaging. She has been a member of the UCLA Division of Cardiology since 1993 and served as Director of Imaging for the UCLA Cardiac Arrhythmia Group. In 2012, she published the NY Times bestselling book, Zoobiquity which makes the case for a species-spanning approach to health. Zoobiquity was a Smithsonian Top Book of 2012, Finalist in the American Association for the Advancement of Science (AAAS)'s Excellence in Science Books Award, Discover Magazine Best Book of 2012, and the China Times Best Book of 2012. It has been translated into seven languages and has been the common read at universities across the country.

In September 2019, Dr. Natterson-Horowitz will keynote the Nobel Assembly's Nobel Conference

in Stockholm, Sweden. The theme of the 2019 conference be the identification and application of scientific insights from the natural world to human health. In the same month, her new book, *Wildhood*, a comparative and phylogenetic exploration of the developmental transition from puberty to mature adulthood, will be published.

Dr. Natterson-Horowitz is President-Elect of the International Society for Evolution, Medicine and Public Health.

### **Megin Nichols, DVM, MPH, DACVPM**

Megin Nichols serves as the Enteric Zoonoses Activity Lead at the Centers for Disease Control and Prevention. In this role, she works on multistate outbreaks of Salmonella and E. coli resulting from exposure to animals and animal products. She received a bachelors degree in Animal Science from New Mexico State University, a doctorate in veterinary medicine from Colorado State University and a masters in public health in Food Safety and Biosecurity from the University of Minnesota. Her areas of research interest include: impact of the exotic pet trade on native species, zoonotic disease, food safety and biosecurity, public health law and pediatric vaccine-preventable diseases.

### **John Peroni, DVM, MS, DACVS**

Dr. Peroni is Professor of Large Animal Surgery at the University of Georgia College Of Veterinary Medicine. He received his Doctor of Veterinary Medicine degree from the University of Parma, Italy and completed equine surgery training at Michigan State University. His research interests include laminitis, respiratory physiology, vascular flow measurement using Xe133, equine bone marrow derived mesenchymal stem cells, and bone healing and enhancement.

### **Bradley G. Phillips, PharmD, BCPS, FCCP**

Dr. Bradley G. Phillips is Millikan-Reeve Professor and Head of the Department of Clinical and Administrative Pharmacy at the University of Georgia. He received his B.Sc. in Pharmaceutical Sciences from the University of British Columbia and his Pharm.D. from the Medical University of South Carolina. He completed a residency at Lions Gate Hospital and a cardiology fellowship at the University of Illinois. Dr. Phillips practiced in internal medicine and critical care at academic and community hospital settings for over 15 years. He has served on executive boards for national pharmacy and medical associations over his career. Dr. Phillips currently provides key leadership in expanding residency training, fostering environments for faculty and student excellence and advancement, and developing clinical practice sites with academic and community based health-system partners. As the Principal Investigator for the NIH funded Georgia Clinical and Translational Research Alliance and the founding director of its Clinical and Translational Research Unit for the University of Georgia, he leads expansion of translational science and education across the state. He maintains a research program in sleep apnea, has presented at over 50 national meetings, and has published over 70 books, book chapters, and papers.

### **Corey Saba, DVM, DACVIM**

Dr. Corey Saba graduated from the Louisiana State University School of Veterinary Medicine in 2002. She completed a one-year small animal rotating internship at Texas A&M, followed by a three-year medical oncology residency at the University of Wisconsin-Madison. Dr. Saba has been with the University of Georgia since 2006 and is currently a Professor of Oncology in the Department of Small Animal Medicine and Surgery.

### **Randall Tackett, PhD**

Dr. Randall Tackett received his BS from Jacksonville University in 1975. He then received a MS degree in pharmacology and toxicology from Auburn University in 1977 and his Ph.D in pharmacology and toxicology from the University of Georgia in 1979. Following a two year postdoctoral fellowship at the Medical University of South Carolina, he returned to the University of Georgia as an assistant professor in the Department of Pharmacology and Toxicology. He is currently Professor of Pharmacology and Toxicology and Graduate Coordinator in the Department of Clinical and Administrative Pharmacy. He also is Director of the Clinical Trials Graduate Certificate Program at the University of Georgia in the Department of Regulatory Affairs. He has Adjunct Faculty appointments at Fairleigh Dickinson University and Alliant University. Dr. Tackett is a recognized expert in substance abuse and conducts workshops and classes for healthcare professionals, law enforcement and legal professionals regarding the effects of prescription and street drugs. Dr. Tackett has extensive experience regarding litigation in medical malpractice, criminal cases and drug tort cases. He has been recognized as an expert in pharmacology, toxicology and regulatory affairs in numerous states in both federal and state courts.

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