The Stanford Undergraduate Pre-Vet Club proudly presents the
2012 Pre-Vet Expo III

Morning Session: “My Life as a Veterinarian”

9:00 am Welcome and Introductory Remarks
Donna M. Bouley, DVM, PhD, DACVP
Department of Comparative Medicine, Stanford University
Pre-Vet Club Advisor

9:10 am Katherine Tyson, DVM
San Jose Animal Care and Services
Shelter Medicine

9:30 am Jennifer Johns, DVM, PhD, DACVP
Department of Comparative Medicine, Stanford University
Clinical Pathology

9:50 am Anne McDonald, DVM
East Valley Emergency Pet Clinic
Non-profit Cat Animal Work in Morocco

10:10 am - 10:35 am Break

10:30 am Andrew Staatz, DVM, MS, DACVS
Sage Centers for Veterinary Specialty and Emergency Care
Surgery

10:50 am Laura Faulkner, VMD
Fairfield Equine Associates
Equine Medicine

11:10 am Heather S. Harris, DVM, MPVM
Contract Veterinarian, NOAA Southwest Fisheries Science Center
Wildlife Medicine

11:30 Cholawat Pacharinsak, DVM, PhD, DACVA
Department of Comparative Medicine, Stanford University
Anesthesia

11:50 am – 12:00 pm Morning session closing announcements

12:00 pm - 1:30 pm Eat Lunch with a Vet (or vet student)
Afternoon Workshops

Visit each of these workshops according to the afternoon schedule below. Check your name tag for your group.

**Workshop A: Veterinarian Question and Answer Panel**  
**Room: Berg Hall**

Moderator: Aurea Pascal-Tenorio, DVM, MPVM  
Panel members:

- Angela Chang, DVM, MBA; Department of Comparative Medicine, Stanford University  
- Helen Chum, DVM; Department of Comparative Medicine, Stanford University  
- Anh Diep, VMD, DACVP; School of Medicine, Cancer Biology, Stanford University  
- Lisa Eshman, DVM; Linda Mar Veterinary Hospital/Foothill College Veterinary Technology Program  
- Stephen Felt, DVM, MPH, DACLAM, DACVPM; Department of Comparative Medicine, Stanford University  
- Hugo Hilton, BVM&S, DACVIM; Department of Structural Biology and Microbiology & Immunology, Stanford University  
- Catherine Josling, DVM; VCA Winchester Animal Hospital  
- Amanda Koehne, DVM; Department of Comparative Pathology, UC Davis  
- Maureen Mac Dougall, MS, DVM; Foothill College Veterinary Technology Program  
- Anne McDonald, DVM; East Valley Emergency Pet Clinic  
- Melissa Miller, DVM, MS, PhD; UCSC Long Marine Laboratory, California Department of Fish and Game  
- Claude Nagamine, DVM, PhD, DACLAM; Department of Comparative Medicine, Stanford University  
- Gabriela Suarez-Mier, DVM, DACVIM; School of Medicine, Neurosciences, Stanford University  
- Izumi Toyoda, DVM; School of Medicine, Neurosciences, Stanford University  
- Ashley Zehnder, DVM, DABVP; School of Medicine, Cancer Biology, Stanford University

**Workshop B: Veterinary Student Question and Answer Panel**  
**Room: Classroom 101 (1st floor)**

Moderator: Megan Albertelli, DVM, PhD  
Panel members:

- Liz Carbone, 4th year student, Tufts University  
- Jane Christman, 1st year student, Michigan State University  
- Stacey Kang, 2nd year student, UC Davis  
- Lilian Kim, 2nd year student, UC Davis  
- Wendy Kalkus, starting at UC Davis this fall
Mary Thurber, 2nd year student, University of Wisconsin
Kat Tomalty, 4th year student, UC Davis
Andrew Wicklund, 1st year student, Washington State University
Sabrina Wilson, 1st year student, UC Davis

Workshop C: Visit posters, display tables, and information tables
Room: Berg Hall Lobby

Visit posters, displays, and information tables to learn about veterinary careers and volunteer opportunities in animal-related fields. Posters include the VMCAS application process, undergraduate and veterinary research posters, Stanford alumni up-dates, and current pre-vet club activities.

Afternoon Schedule:

1:30 pm – 2:20 pm: First afternoon workshop
- Red name tag: Veterinarian Question and Answer Panel, Berg Hall
- Gold name tag: Veterinary Student Question and Answer Panel, Classroom 101 (1st floor)
- Blue name tag: Visit posters, demonstrations, and information tables; Berg Hall Lobby

2:20 pm – 2:35 pm: Break

2:35 pm – 3:25 pm: Second afternoon workshop
- Red name tag: Veterinary Student Question and Answer Panel, Classroom 101 (1st floor)
- Gold name tag: Visit posters, demonstrations, and information tables; Berg Hall Lobby
- Blue name tag: Veterinarian Question and Answer Panel, Berg Hall

3:25 pm – 3:40 pm: Break

3:40 pm – 4:30 pm: Third afternoon workshop
- Red name tag: Visit posters, demonstrations, and information tables; Berg Hall Lobby
- Gold name tag: Veterinarian Question and Answer Panel, Berg Hall
- Blue name tag: Veterinary Student Question and Answer Panel, Classroom 101 (1st floor)

Pre-Vet Expo III is Sponsored by:

- Office of the Vice Provost of Undergraduate Education - Curriculum Development Pre-Vet Funds
- Dr. B’s Pre-Vet Undergraduate Program Enhancement Grant (UPEG)
- Department of Comparative Medicine, Stanford School of Medicine
Information for the Pre-Veterinary Student

1 - 1. Careers in Veterinary Medicine  Designed by Katie Nelms and Monika Erviti  (Both Stanford class of ’15)*
1 - 2. Examples of Board Specialties in the AVMA. *
2 - 1. How to Get Into Veterinary School. *
3 - 1. Veterinary Medical College Application Service. VMCAS www.vmcas.org (Designed by Fallon Segarra, Stanford class of ’12)
3 - 2. AVMA Accredited Veterinary Schools. (Designed by Angela Chang, DVM, MBA)**

Pre-Vet Activities

4 - 1. The Stanford Equestrian Team. Emily Cohodes, Kristen Malinak, and Sasha Najera (all Stanford class of ’13) The Red Barn, Stanford University
5 - 1. U.S. Navy Marine Mammal Program. Wendy Kalkus, Stanford class of ’11, San Diego, CA

Undergraduate Research

6 - 1. Clinical, Gross, and Histological Characterization of Ethylnitrosourea-induced CNS Tumors in a Rat Model of Glioblastoma Multiforme. Nicholas Brown, Emma Wilde Botta, Brenda Acevedo (all Stanford Class of ’14), Donna M. Bouley DVM, Ph.D, DACVP, Department of Comparative Medicine, Stanford University School of Medicine, presented at SURPS 2012
6 - 2. Serum Biochemical and Hematologic Profiles of Wild-Caught and Laboratory-Reared Xenopus laevis. Sabrina Wilson, Stephen Felt, Stéphanie Torreilles, Antwain Howard–Colleen Beehan, Roberta Moorhead, and Sherril Green, 1Department of Comparative Medicine, Stanford University School of Medicine, Stanford University, Stanford, CA, 13th International Xenopus Conference, Lake Louise, Alberta, Canada, 12-16 SEP 2010

Veterinary Practices

7 - 1. General Principles of Suturing **
7 - 2. Anesthesia and Anesthetic Equipment. Ellen Kettler, Stanford class of ’15, Cholawat Pacharinsak DVM, Ph.D, DACVA, Department of Comparative Medicine, Stanford University
8 - 1. Animal Blood Cells. Linnea Tracy, Stanford class of ’15, Jennifer Johns DVM, Ph.D, DACVP, Department of Comparative Medicine, Stanford University
8 - 2. Laboratory Animal Environmental Enrichment; RABBIT EDITION. Alexandria Hicks-Nelson, Justin Krumm, Amy Kirkham, Fallon Segarra (all Stanford class of ’12), Megan Albertelli, DVM, PhD, ACLAM, Assistant Professor, Comparative Medicine
Animal Behavior

9 - 1. What is Animal Behavior? An Introduction to the field and its use today. JD Haddon, Stanford class of ’13. Joseph Garner D. Phil, Associate Professor, Department of Comparative Medicine, Stanford

Comparative Medicine Educational Programs

10 - 1. Exposing College Undergraduates to Alternative Careers In Veterinary Medicine; Experiences From A Medical School Comparative Medicine Department. Donna M. Bouley, DVM, Ph.D, DACVP Department of Comparative Medicine, Stanford School of Medicine, Stanford, CA. presented at ACVP 2011, Nashville, TN.
10-2 Skulls (California Academy of Sciences)
11-1 Mouse Anatomy (Techniplast)

Veterinary Student Research

11-2. Characterization of the Plasmodium and Hepatocystis Communities Among the Primates of Kibale National Park Uganda. Mary Thurber, (Stanford class of 2010, UWCVM class of ’14), Tony Goldberg, Ph.D, DVM, MS, Professor of Epidemiology, Department of Pathobiological Sciences, University of Wisconsin Madison, School of Veterinary Medicine ***
***1st Place Veterinary Student Poster, Morris Animal Foundation Wildlife Meeting, Orlando, FL. 2012

12 - 1. Hippocampal Sclerosis in Epileptic California Sea lions. L. Kim, X. Wen, I. Toyoda2, F. Gulland, W. Van Bonn3, and P. Buckmaster, School of Veterinary Medicine, University of California Davis, Davis, CA, Department of Comparative Medicine, Stanford University, Stanford, CA, and Marine Mammal Center, Sausalito, CA, 2011 Proceedings of the ACVP, Vet Student Poster #21
13 - 1. Use of the Hypoxia-activated DNA cross-linking agent PR-104 to target hypoxic tumor cells in human pancreatic tumor xenografts. Amanda Koehne, K. Bennewith, CM Ham, EE graves, GP Yang, and Amato Giaccia, University of California Davis, Davis, CA, Department of Radiation Biology, Stanford School of Medicine, 2007 Proceedings of the ACVP, Vet Student Poster #21

Biographies – Veterinary Speakers

Donna M. Bouley, DVM, PhD
Diplomate, American College of Veterinary Pathologists

Dr. Bouley received a BS in Animal Science from the University of Massachusetts in 1976, her DVM from the University of Tennessee, Knoxville (UTK) in 1985, and her PhD in Experimental and Comparative Medicine also from UTK in 1995. Dr. Bouley has been in the Department of Comparative Medicine in the Stanford School of Medicine since 1997, is currently a Professor
and the Director of Necropsy Services, and does diagnostic and experiment pathology with numerous investigators throughout the medical school. She founded the Stanford Undergraduate Pre-Vet Club through which she mentors undergraduates interested in careers in veterinary medicine. Dr. Bouley was the 2007 recipient of Stanford’s Lloyd W. Dinkelspiel Award for distinctive contributions to undergraduate education, received a Distinguished Alumni Award in 2010 from the University of Tennessee College of Veterinary Medicine, and in 2011, was appointed as the Kleinheinz Family Fellow in the Bass Institute for Undergraduate Education at Stanford.

Katherine Tyson, DVM

Dr. Tyson graduated from Stanford University in 1997 with a B.S. in Biological Sciences. She attended U.C. Davis School of Veterinary Medicine and graduated in 2003 (small animal track). She has been an Animal Shelter Veterinarian at San Jose Animal Care and Services since 2004. She is on the Board of Directors of the Association of Shelter Veterinarians.

Jennifer Johns, DVM, PhD
Diplomate, American College of Veterinary Pathologists

Dr. Johns completed a BS in Biology with emphasis in Ecology, Behavior and Evolution at UCLA in 1996. She worked as a veterinary technician for one year and then enrolled at UC Davis School of Veterinary Medicine, where she completed her DVM degree in 2001. She worked in San Francisco as a private practice intern in small animal practice, stayed on as a general practitioner in the city, and then moved to Truckee to practice daytime and emergency medicine in the Sierras. In 2004, she returned to UC Davis School of Veterinary Medicine for a 3-year Clinical Pathology residency, and stayed to work toward a PhD in the Comparative Pathology Graduate Group. She finished her PhD in 2011 and came to work at Stanford in the fall. Her research focus is the tick-borne disease granulocytic anaplasmosis caused by infection with the rickettsial bacterium Anaplasma phagocytophilum. She occasionally still volunteers as a veterinarian at a low cost spay/neuter clinic, currently has 1 dog and 2 cats, and would like to add some chickens to the mix.

Anne McDonald, DVM

Dr. McDonald graduated from Stanford in 2003 with a BA in Italian. Always knowing she wanted to be a vet, she spent undergrad taking the necessary pre-vet classes while doing things she loved i.e. riding horses with the Equestrian Team and studying abroad in Florence, Italy. After graduating, she took one year off to finish requirements and apply to vet school, then started at UC Davis, School of Vet Med for the graduating class of 2008. She tracked equine-only during vet school and did an equine internship afterwards at a practice in California. She stayed on at the practice after her internship and started doing some small animal work part time for diversity (also known as a back-up plan). A year and a half later she moved to Morocco to work for a charity hospital with her fiancé (also a vet) doing mixed animal (cats/dogs, donkeys, mules, horses, sheep/goats, occasional camel) practice for a year. She came back to California and is currently working nights/weekends/holidays at a small animal/exotic emergency hospital. Apparently she likes to change things up.
Andrew Staatz, DVM, MS  
Diplomate, American College of Veterinary Surgeons

Dr. Staatz attended Stanford as an undergraduate and graduated with a degree in biology. He spent two years working for a small geology company before starting veterinary school. He graduated from Colorado State University School of Veterinary Medicine in 1983 and proceeded to spend a year travelling around the world. Following one year of general practice in Seattle and 2 years in Santa Monica, he spent nearly 10 years in small animal practice in Los Altos, California. Returning to the Colorado State University School of Veterinary Medicine from 1998-2001, he completed a residency in small animal surgery. In August 2001 he joined Sage Veterinary Centers and became a Diplomate of ACVS in February 2002. His particular interest is in orthopedics.

Laura Faulkner, VMD

Dr. Faulkner graduated from Stanford in 2007 with a BA in Political Science and a minor in Biology. She went straight to vet school at the University of Pennsylvania (yes she’s a "PennWe"!), and graduated in May, 2011. She tracked equine in vet school and during the summers had opportunities to do externships in equine practices in Europe as well as help with cardiology research at a Standardbred racetrack near Philadelphia. She is currently an intern at Fairfield Equine Associates in Newtown, CT. Fairfield Equine is a 9 vet practice that offers both primary and referral care, and has a focus on high level sport horses. She will be starting a Fellowship in large animal ultrasound and cardiology at the University of Pennsylvania's New Bolton Center in July of this year. In the long term, her interests are equine sports medicine with an emphasis on diagnostic imaging.

Heather S. Harris, DVM, MPVM

Dr. Harris is a wildlife veterinarian with a strong interest in marine ecosystem health. She was first sparked by the concept of wildlife health while obtaining her BA in Environmental Studies (1996) at the University of California, Santa Barbara. She completed a dual degree graduate program at the University of California Davis: DVM with an individual track in Wildlife Medicine (2006) and MPVM (Masters of Preventive Veterinary Medicine) in Wildlife Disease Ecology (2007). She did a clinical internship in Marine Mammal Medicine and Pathology at The Marine Mammal Center in Sausalito, California (2008). Dr. Harris currently works as a contract wildlife veterinarian for NOAA, conducting health investigations of sea turtles and marine mammals and providing veterinary support for field research. Her research focuses on evaluating the health of endangered leatherback sea turtles and their prey on critical foraging grounds in central California. She is a member of the Wildlife Disease Association, International Association of Aquatic Animal Medicine, and International Sea Turtle Society. When she isn’t traveling, Dr. Harris is based in Morro Bay, California where she also works part-time as a surgeon at Woods Humane Society.
Cholawat Pacharinsak, DVM, PhD  
Diplomate, American College of Veterinary Anesthesiologists

Dr. Pacharinsak is an Assistant Professor and Director of Anesthesia, Pain Management, and Surgery in the Department of Comparative Medicine, Stanford University. He received his DVM from Chulalongkorn University, Thailand in 1995, and trained in an Anesthesiology and Pain Management residency program and received his Master's degree at Washington State University in 2001. He completed his PhD in Pain Neuroscience, the role of NK-1 receptors in the rostral ventromedial medulla in hyperalgesia produced by intraplantar injection of capsaicin, from the University of Minnesota in 2008. Prior to arriving at Stanford, Dr. Pacharinsak was a faculty member in Anesthesiology and Pain Management at Michigan State University and Purdue University. His research focuses on understanding the neurobiology of cancer pain and acute animal pain models, and to improve clinical pain management. This work is roughly divided into 2 parts: studying biological markers of pain pathophysiology and controlling pain in the clinical setting. He is interested in targeted pain control such as voltage-gated sodium channels, transient receptor potential vanilloid (TRPV1) and opioids. His research methodology mainly uses electrophysiological and behavioral techniques.

Biographies – Veterinary Panel Members

Megan A. Albertelli, DVM, PhD  
Diplomate, American College of Laboratory Animal Medicine

Dr. Albertelli received a BS in Veterinary Science in 1997 and her DVM in 1999 from Michigan State University. After veterinary school, she researched the genetics of feline mammary cancer and earned an MS in Small Animal Clinical Sciences from Michigan State University in 2001. She then entered a laboratory animal medicine residency at University of Michigan and received her PhD in Human Genetics for the study of genetic variation in a mouse model of prostate cancer in 2007. She joined the Department of Comparative Medicine in the Stanford School of Medicine in 2007 and is currently an Assistant Professor. Her current research interests include testing new treatments for celiac disease and breast cancer.

Angela Chang, DVM, MBA

Dr. Chang received her veterinary degree as well as her masters in business from Texas A&M University. She has worked with various comparative medicine centers across the country in both industry and academia. She joined the Comparative Medicine Department at Stanford as a postdoctoral fellow in September 2011. Her interests include animal welfare and refinement, translational research and regulatory management.

Helen Chum, DVM

Dr. Chum graduated from the University of Texas-Austin in 2004 with a BS in neurobiology and psychology and received her DVM from Cornell University 2009. At Cornell, she focused on
small animal/exotic animal medicine with a concentration in emergency medical care. After graduation, she was a general practitioner at Jules Veterinary Center, a small animal/exotics practice with a heavy emergency case load. After two years as a general practitioner, she joined Stanford University’s Department of Comparative Medicine, where she is currently a laboratory animal medicine resident. She also currently works at a local animal shelter and emergency hospital.

Anh Diep, VMD
Diplomate, American College of Veterinary Pathologists

Dr. Diep graduated from the Honors College Program at the University of Houston in 2001, majoring in Biology and minoring in Chemistry. After a brief stint at the University of Texas in Austin, she decided to switch career paths from basic research to veterinary medicine and attended the University of Pennsylvania School of Veterinary Medicine. She did a small animal medicine/surgery internship at the Long Island Veterinary Specialists in NY followed by a residency program in anatomic pathology at Cornell University. Currently she is a first year graduate student in the Cancer Biology program at Stanford University working on translational research for comparative oncology.

Lisa Eshman, DVM

Dr. Eshman graduated from Stanford University in 1978 with a degree in Biological Sciences. In 1984 she received her DVM from Tufts (now Cummings) University School of Veterinary Medicine in the second graduating class. Currently she works in small animal medicine and soft tissue surgery. Additionally, she teaches in the veterinary technology program at Foothill College. Her special interests include client as well as vet tech education, emergency medicine, wound care, all aspects of internal medicine and infectious disease. Her hobbies include learning about dressage with her horse, small ruminants with her sheep, keeping fit with her dogs, and living with her cat, who is queen of the house.

Stephen Felt, DVM, MPH
Diplomate American College of Laboratory Animal Medicine, Diplomate American College of Veterinary Preventive Medicine

In addition to being a faculty member in Comparative Medicine Department Stanford University School of Medicine, Dr. Felt is the University Attending Veterinarian, Director of the Laboratory Animal Medicine Residency Program, and the Associate Director of the Veterinary Service Center. He received his BS (Zoology, 1989) from University of Wisconsin-Milwaukee, DVM (1993) from the University of Wisconsin, and his MPH (2003) from the Uniformed Services University of Health Sciences (USUHS). He completed his laboratory animal medicine residency training at the Walter Reed Army Institute of Research (WRAIR). Prior to arriving at Stanford, Dr. Felt served as the Director for the Animal Resources Program at the Naval Medical Research Unit No. 3 in Cairo, Egypt. His research interests include infectious diseases, particularly zoonoses, and exploring techniques which promote the health and welfare of laboratory animals.
Hugo Hilton, BVM&S
Diplomate, American College of Veterinary Internal Medicine

Dr. Hilton graduated from the Royal (Dick) School of Veterinary Medicine at the University of Edinburgh in 2005. Following a short research fellowship at the University of Oslo, Norway he undertook post-graduate training in large animal medicine, initially at the University of Guelph in Canada and subsequently as a resident in equine medicine at the University of California at Davis. Whilst at UC Davis, Dr. Hilton became involved in several research projects ranging from degenerative neurological disorders to ischemic gastrointestinal disease in horses. Dr. Hilton received his diplomate status in 2009 and was subsequently appointed as a post-doctoral fellow in the Department of Structural Biology at Stanford University where he currently researches the variability of human immune system genes and how that variation impacts infection, immunity and placental reproduction.

Catherine A. Josling, DVM

Dr. Josling received her BS in Biological Sciences from Stanford University in 2003. After working for a year in a small animal clinic in Mountain View, she attended the University of California, Davis School of Veterinary Medicine. She graduated as a member of Phi Zeta in 2008. While in veterinary school, she participated in a research project studying the effects of nutrition on inflammatory bowel disease as part of the Students Training in Advanced Research (STAR) program. After graduation, Dr. Josling moved to Boulder Creek, CA where she was an associate in a small animal clinic. She is currently a small animal veterinarian working at VCA Winchester in Campbell, CA. She lives in Boulder Creek with her husband, their daughter, and their four cats and two dogs.

Amanda Koehne, DVM

Dr. Koehne originally planned for a career in marine mammal biology, majoring in biology at Connecticut College and volunteering for the Marine Mammal Center. After taking a course in molecular oncology, her career aspirations changed entirely and she accepted a job at Cell Genesys, a small biotechnology company in Foster City, CA. While at Cell Genesys, she was introduced to several veterinarians working as primary researchers and laboratory animal veterinarians and realized the advantage of an in-depth understanding of comparative medicine in biomedical research. She attended UC Davis School of Veterinary Medicine from 2005-2009, spending her summers in research programs for veterinary students working on mammary and pancreatic cancers. Following veterinary school, she entered into the Anatomic Pathology residency at UC Davis. She will complete the residency in July of this year and will sit for the Anatomic Pathology Boards in September. She plans to enter into a PhD program in the fall and continue studying tumor hypoxia.
Maureen Mac Dougall, MS, DVM

Dr. Mac Dougall is a faculty member in the Veterinary Technology Program at Foothill College, and is Acting Director for the quarter. She received her DVM from Purdue University in 1991, and has worked in many areas: private small animal practice, mobile small animal practice, small animal emergency medicine, and now she focuses her efforts on teaching. She also has a Master's Degree in Plant Physiology from Penn State (it makes teaching plant toxicology very easy!).

Melissa Miller, DVM, MS, PhD

Dr. Miller earned her BS and MS in Wildlife Management at the University of New Hampshire and her DVM at the University of California School of Veterinary Medicine at Davis. She completed her PhD in Comparative Pathology at Davis and now works for The California Department of Fish and Game as a Senior Wildlife Veterinarian and Pathologist, based at the UCSC Long Marine Laboratory in Santa Cruz, California. Dr. Miller examines wildlife to determine the cause of death and conducts research to help minimize impacts of pollution on marine wildlife health. Ongoing projects include investigations of marine and terrestrial-origin biotoxins (eg. domoic acid and microcystins) and infectious agents (eg. protozoa, bacteria, fungi and viruses) that cause illness in marine and terrestrial wildlife and humans.

Claude Nagamine, DVM, PhD
Diplomate, American College of Laboratory Animal Medicine

Dr. Nagamine is an Assistant Professor in the Department of Comparative Medicine, where his duties include veterinary service, research, and teaching. He joined the Stanford faculty in 2008 and is Director of Rodent Services and the Director of the Rodent Health Surveillance Program. Born and raised in Honolulu, Hawaii, he obtained his BS at the University of Hawaii, Manoa; received his Masters and PhD at UC Davis and his DVM at the University of Tennessee, Knoxville. He has worked at the Memorial Sloan-Kettering Cancer Center, Pasteur Institute in Paris, and the University of California, San Francisco. Prior to entering veterinary school in 2000 he was an Assistant Professor of Cell Biology at the Vanderbilt University School of Medicine. He completed a Laboratory Animal Medicine residency at the Massachusetts Institute of Technology in 2007 and became board-certified in Laboratory Animal Medicine in 2008. His research interests include the molecular genetics of mammalian sex determination and mouse infectious diseases and he is collaborating on a mouse model for Dengue virus.

Aurea Pascal-Tenorio, DVM, MPVM

Dr. Pascal-Tenorio received her DVM degree from Universidad Nacional Autonoma de Mexico in Mexico City. She received her Master of Epidemiology and Veterinary Public Health (MPVM) degree, studying oral infections of cats and their relationship to persistent oral carriage of Feline Calicivirus, and completed her residency in Animal Dermatology at the University of California Davis. Dr. Pascal is involved in a study of Magnetic Resonance Guided Cancer Intervention here at Stanford University.
Gabriela Suarez-Mier, DVM
Diplomate, American College of Veterinary Internal Medicine

Dr. Suarez-Mier studied veterinary medicine at the National Autonomous University in Mexico City. She worked in Mexico City's Metropolitan Mounted Police Veterinary Service, the Racetrack of the Americas and with ambulatory private practitioners. These diverse experiences gave her a global vision of different types of equine veterinary practices, from high performance jumpers to racetrack medicine to the often injured mounted police horses. For her final year in vet school, she rotated through various equine services at the UC Davis Veterinary Medical Teaching Hospital. She did a year-long rotating internship at Alamo Pintado Equine Medical Center and San Luis Rey Equine Medical Centers in southern California. Here, she came to realize that she was most interested in internal medicine cases. She then went to University of Florida for residency in large animal internal medicine, where she worked mostly on horses and sometimes on cattle, goats, sheep, llamas, alpacas, pot belly pigs and some wildlife (camels, deer, zebras). During her residency she became very interested in equine neurologic cases. After residency, she went back to Mexico City to teach and set up a private internal medicine referral practice, and then decided to apply to programs to do a PhD in Neuroscience. Now she is at Stanford University working on the mechanisms underlying stroke induced immune suppression and the possible role of glial cells in the lung in the communication between nervous and immune systems.

Izumi Toyoda, DVM

Dr. Toyoda received her BS in Neurology, Physiology, and Behavior and her BA in Studio Art from the University of California, Davis in 2003. In 2007, she received her DVM from the UC Davis School of Veterinary Medicine. Currently, she is a PhD candidate in Neuroscience at Stanford University. Her research interests include the neurophysiology of epilepsy, particularly those with acquired causes, e.g. mechanical injury, ischemia, toxins, etc. The specific questions she is interested in for her thesis projects are: where and how do spontaneous seizures originate in a chronically epileptic rodent model of temporal lobe epilepsy? Specifically, what are the patterns of activity of excitatory and inhibitory neurons at the onset of spontaneous seizures?

Ashley Zehnder, DVM
Diplomate, American Board of Veterinary Practitioners

Dr. Zehnder completed 3 years of undergraduate studies in Animal Science prior to being accepted into the veterinary program at the University of Florida. After graduating from UF in 2005, she completed a small animal medicine/surgery internship at the Animal Medical Center in New York. From 2006-2009, she was in the Companion Avian and Exotic Pet residency at UC Davis and completed her board certification in avian medicine in 2009. Currently, she is pursuing a PhD in Cancer Biology at Stanford in order to better advance cancer research in exotic species and use this information to inform both human and animal disease. Her current research focuses on therapeutic targeting of signaling pathways in cancer. Eventually, she hopes to teach and perform research in a veterinary academic setting.