

2010-2011
Summary of Scholarly Activities
Department of Comparative Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Cioffi DL, Hubler TR, Scammell JG. Organization and function of the FKBP52 and FKBP51 genes. *Curr Opin Pharmacol*. 2011 Aug;11(4):308-13.

Power ML, Williams LE, Gibson SV, Schulkin J, Helfers J, Zorilla EP. Pattern of maternal circulating CRH in laboratory-housed squirrel and owl monkeys. *Am J Primatol*. 2010 Nov;72(11):1004-12.

Vasauskas AA, Hubler TR, Boston L, Scammell JG. Tissue-specific expression of squirrel monkey chorionic gonadotropin. *Gen Comp Endocrinol*. 2011 Feb;170(3):514-21.

Vasauskas AA, Hubler TR, Mahanic C, Gibson S, Kahn AG, Scammell JG. Regulation and distribution of squirrel monkey chorionic gonadotropin and secretogranin II in the pituitary. *Gen Comp Endocrinol*. 2011 Feb 1;170(3):509-13.

Zhao Y, Liu H, Liu Z, Ding Y, Ledoux SP, Wilson GL, Voellmy R, Lin Y, Lin W, Nahta R, Liu B, Fodstad O, Chen J, Wu Y, Price JE, Tan M. Overcoming trastuzumab resistance in breast cancer by targeting dysregulated glucose metabolism. *Cancer Res*. 2011 Jul;71(13):4585-97.

II. PUBLISHED ABSTRACTS

Lin W. Activation of pancreatic endoplasmic reticulum kinase specifically in oligodendrocytes attenuates EAE-induced demyelination. 42nd Annual American Society for Neurochemistry; 2011 Mar 19-23; St. Louis, MO. Abstract no. PSMO8-05.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Jonathan G. Scammell serves on the Editorial Advisory Board of the *Journal of Pharmacology and Experimental Therapeutics*. He also served as a reviewer for *Proceedings of the National Academy of Science USA*, *Current Medicinal Chemistry*, and the Michigan Diabetes Research and Training Center, Pilot and Feasibility Grant Program.

Dr. A. Michele Schuler served as a reviewer for the *Journal of Medical Primatology*, *Journal of the American Association of Laboratory Animal Science*, *Comparative Medicine*, *Journal of Zoo and Wildlife Medicine*, and *Theriogenology*. Dr. Schuler is a recipient of a Special Emphasis Research Career Award from the National Center for Research Resources of the National Institutes of Health.

Dr. Wensheng Lin, joint appointee with the Department of Cell Biology and Neuroscience, served as a reviewer for *Journal of Neuroscience Research*, *Acta Neuropathologica*, and *Journal of Cellular Biochemistry*.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

This year's department report is dedicated to the memory of Ms. Gayle Francis, who passed away unexpectedly after Christmas. Gayle was our Manager of Vivarium Services at USA and had dedicated her career to the care and enrichment of research animals and the support of her employees who provided this care. Gayle is greatly missed.

The faculty and staff of the Department of Comparative Medicine participate in service, education, and research in the university's animal care and use program. The department continues to upgrade and maximize the use of facilities with the goal of enhancing research capabilities for the benefit of investigators throughout the university. The department supports the operation of the Vevo high resolution ultrasound imaging system from VisualSonics, the hypoxia core for the development of pulmonary hypertensive rodents, the *Pseudomonas* delivery core, and histology services. Drs. Schuler and Gibson have been active consultants in the design of the animal facilities in the new Laboratory of Infectious Diseases building. The program underwent review by AAALAC International and the USDA.

The faculty continued their expansion of both formal and informal educational commitments within the department to technical staff, supervisors, and colleagues and outside the department to graduate students, postdoctoral fellows, and faculty. Audrey Vasauskas, a graduate student in Comparative Medicine and Pharmacology, defended her dissertation "Expression and Storage of Squirrel Monkey Chorionic Gonadotropin in the Pituitary Gland." The department hosted our colleague, Dr. Stephen Ballard, who presented a seminar, "Water, Salt, Mucus, and Cystic Fibrosis Lung Disease", in the Distinguished Scientist Seminar Series.

At the end of August we bid farewell to Dr. Susan Gibson, Associate Professor, who retired from the department to return to her home state of North Carolina. Dr. Gibson served the institution for over 20 years as veterinary pathologist and respected colleague.