

2011-2012
Summary of Scholarly Activities
Department of Comparative Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Lin Y, Jamison S, Lin W. Interferon- γ activates nuclear factor- $\kappa\beta$ in oligodendrocytes through a process mediated by the unfolded protein response. *PloS One*. 2012; 7(5):e36408. Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3344863/pdf/pone.0036408.pdf>

Lin W, Lin Y, Li J, Harding HP, Ron D, Jamison S. A deregulated integrated stress response promotes interferon- γ -induced medulloblastoma. *J Neurosci Res*. 2011 Oct; 89(10):1586-95.

Simmons J, Gibson S. Bacterial and mycotic diseases of nonhuman primates. In: Abee CR, Mansfield K, Tardiff S, Morris T, editors. *Nonhuman primates in biomedical research: diseases*. 2nd ed. London, UK, Waltham, MA, San Diego, CA; Elsevier Academic Press; 2012. Vol. 2, Chapter 2, p. 105-72. (American College of Laboratory Animal Medical Series).

Vasauskas A, Schuler AM, Olatinwo M, Scammell JG. Pituitary expression of chorionic gonadotropin in New World primates. In: Rizk B, Sallam HN, editors. *Clinical infertility and *in vitro* fertilization*. New Dehli, India; Jaypee Brothers Medical Publishers; 2012. Chapter 7, p. 38-44.

II. PUBLISHED ABSTRACTS

Srivastava SK, Arora B, Bhardwaj A, Scammell JG, Owen LB, Grizzle WE, Singh AP, Singh S. Evidence supporting a role for FKBP51 in melanoma pathogenesis. *Cancer Res*. 2012 Apr 15;72(8 suppl 1): A84. Available from: http://cancerres.aacrjournals.org/cgi/content/meeting_abstract/72/8_MeetingAbstracts/84

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Neuroscience Institute, Morehouse School of Medicine; 2012 Feb 24; Atlanta, GA.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Stark Neurosciences Research Institute, Indiana University School of Medicine; 2012 Mar 13; Indianapolis, IN.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Center for Neurodegenerative Diseases, University of Minnesota; 2012 Mar 28; Twin Cities, MN.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Center for Molecular Medicine and Genetics, Wayne State University; 2012 Apr 24; Detroit, MI.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Hunter James Kelly Research Institute, University of Buffalo; 2012 May 10; Buffalo, NY.

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 *Biochemical Pharmacology* and the *American Journal of Physiology*.

Dr. A. Michele Schuler served as a reviewer for the *American Journal of Primatology*, the *Journal of Medical Primatology*, *Journal of the American Association of Laboratory Animal Science*, and *Comparative Medicine*. 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 *Acta Neuropathologica* and *Journal of Cellular Biochemistry*. Dr. Lin received a five-year NIH grant "The effects of the unfolded protein response on medulloblastoma."

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

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 Scammell have been active consultants in the design of the animal facilities in the new Laboratory of Infectious Diseases building. The program received notification of BSL-3 re-accreditation by AAALAC International in November 2011.

The faculty continued 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.

The department hosted Dr. Brian Popko, Jack Miller Professor in Neurological Disorders at the University of Chicago, who presented a seminar “Myelin Repair” in the Distinguished Scientist Seminar Series.

At the end of August, we bid farewell to Dr. Wensheng Lin, Assistant Professor, who accepted a position as Institute for Translational Neuroscience Scholar and member of the Neurodegenerative Disease Center at the University of Minnesota. We thank Wensheng for his contributions to the department and wish him every success in his new position.