

Molecular Genetics & Microbiology Graduate Program Newsletter

Winter 2013 Vol. 6, No. 4



✠ 2013 Publications

Ali, W.H., Chen, Q., **DelGiorno, K.E.**, Su, W., Hall, J.C., Hongu, T., Tian, H., Kanaho, Y., Di Paolo, G., Crawford, H.C., and Frohman, M.A. 2013. Deficiencies of the lipid-signaling enzymes phospholipase D1 and D2 alter cytoskeletal organization, macrophage phagocytosis, and cytokine-stimulated neutrophil recruitment. *PLoS One* 8(1): e55325.

Coleman, J.L., **Crowley, J.T.**, Toledo, A.M., and Benach, J.L. 2013. The HtrA protease of *Borrelia burgdorferi* degrades outer membrane protein BmpD and chemotaxis phosphatase CheX. *Molecular Microbiology* 88(3): 619-633.

Crowley, J.T., Toledo, A.M., LaRocca, T.J., Coleman, J.L., London, E., and Benach, J.L. 2013. Lipid exchange between *Borrelia burgdorferi* and host cells. *PLoS Pathogens* 9(1): e1003109.

DelGiorno, K.E., Hall, J.C., Takeuchi, K.K., Pan, F.C., Halbrook, C.J., Washington, M.K., Olive, K.P., Spence, J., Sipos, B., Wright, C.V., Wells, J.M., and Crawford, H.C. 2013. Identification and manipulation of biliary metaplasia in pancreatic tumors. *Gastroenterology*, in press.

Miles, B., Scisci, E., Carrion, J., Sabino, G., Genco, C.A., and Cutler, C.W. 2013. Non-canonical dendritic cell survival driven by a bacteremic pathogen. *Journal of Leukocyte Biology* 94(2): 281-289.

Miles, B., Zakhary, I., El-Awady, A., Scisci, E., Carrion, J., O'Neill, J.C., Rawlings, A., Stern, J.K., Susin, C., and Cutler, C. 2013. SLO homing phenotype of human myeloid dendritic cells disrupted by an intracellular oral pathogen. *Infection and Immunity*, in press.

Sahashi, K., Ling, K.K., Hua, Y., Wilkinson, J.E., **Nomakuchi, T.**, Rigo, F., Hung, G., Xu, D., Jiang, Y.P., Lin, R.Z., Ko, C.P., Bennett, C.F., and Krainer, A.R. 2013. Pathological impact of SMN2 mis-splicing in adult SMA mice. *EMBO Molecular Medicine* 5(10): 1586-1601.

Shin, H.Y., and Reich, N.C. 2013. Dynamic trafficking of STAT5 depends on an unconventional nuclear localization signal. *Journal of Cell Science* 126: 3333-3343.

Wu, K., Orozco, D., and Hearing, P. 2013. The adenovirus L4-33K protein regulates both late gene expression patterns and viral DNA packaging. *Journal of Virology* 87: 6739-6747. Chosen by the Editors as a Spotlight article of significant interest.

Yang, C., Skiena, S., Futcher, B., Mueller, S., and Wimmer, E. 2013. Deliberate reduction of hemagglutinin and neuraminidase expression of influenza virus leads to an ultraprotective live vaccine in mice. *Proceedings of the National Academy of Sciences USA* 110(23): 9481-9486.

Zheng, Y., and Hearing, P. The use of chromatin immunoprecipitation (ChIP) to study the binding of viral proteins to the adenovirus genome in vivo. *Methods in Molecular Biology*, in press.

2013 Conferences

McLaughlin, P., Kullas, A., McClelland, M., Yang, H., Porwollik, S., Bogomolnaya, L., Andrews-Polymenis, H., and van der Velden, A.W. 2013. On the Role of L-Asparaginase II in the Pathogenesis of and host response to infection with *S. typhimurium*. 4th ASM Conference on Salmonella: The Bacterium, the Host and the Environment, Boston, MA.

Miles, B., and Cutler, C.W. Differentiation and Survival of Dendritic Cells upon *Porphyromonas gingivalis* Infection. 2013 AADR/IADR General Exhibition, Seattle, WA. Johnson & Johnson Hatton Award Finalist; Oral Presentation and Poster Presentation.

Minkah, N., Chavez, K., Landau, N., and Krug, L.T. Host Restriction of Murine Gammaherpesvirus 68 Replication by Human APOBEC3 Cytidine Deaminases but not Murine APOBEC3. International Herpesvirus Workshop, Grand Rapids, MI.

Tam, J.W., Kullas, A.L., Mena, P., and van der Velden, A. Complex Role of Immature Myeloid Cells in *Salmonella typhimurium* infection. Immunology 2013, AAI Annual Meeting, Honolulu, HI.

Werneburg, G.T., Henderson, N.S., and Thanassi, D.G. Dissecting Usher-Cheperon-Subunit Interactions During Pilus Biogenesis. 2013. 113th General Meeting of the American Society for Microbiology, Denver, CO.

2013 Awards

Bridges, Rebecca. 2013. Department of Molecular Genetics & Microbiology Outstanding Teaching Assistant Award, \$200.

Chahales, P. 2013. Kevin King/John Miller Travel Scholarship, \$400.

Espaillet, Mel Pillar. 2013. Department of Molecular Genetics & Microbiology Outstanding Teaching Assistant Award, \$200.

Espaillet, Mel Pillar. 2013. W. Burghardt Turner Conference Travel Award, W. Burghardt Turner Fellowship Program, Stony Brook University, \$1,200.

Gardin, Justin. 2013. Department of Molecular Genetics & Microbiology Outstanding Teaching Assistant Award, \$200.

Kopping, Erik. 2013. Department of Molecular Genetics & Microbiology Outstanding Teaching Assistant Award, \$200.

McLaughlin, P. 2013. American Society for Microbiology Student Travel Grant, \$500.

Miles, B. 2013. Johnson & Johnson Hatton Award Finalist. AADR/IADR General Exhibition, Seattle, WA.

Miles, B. 2013. IADR Microbiology/Immunology Group Travel Award, \$1,000.

Tam, Jason. 2013. Department of Molecular Genetics & Microbiology Retreat Best Poster Award, \$75.

Tam, Jason. 2013. Department of Molecular Genetics & Microbiology Distinguished Service Award, \$350.

Zheng, Yueting. 2013. Department of Molecular Genetics & Microbiology Teresa Haire Memorial Award, \$250.

✦ 2013 Graduates

Dr. Jameson Crowley; postdoctoral fellow in the Center for Immunology and Inflammatory Diseases, Massachusetts General Hospital.

Dr. Brodie Miles; postdoctoral fellow in the Division of Infectious Diseases, University of Colorado Denver.

Dr. Ha Youn Shin; postdoctoral fellow in the Department of Molecular Genetics and Microbiology, Stony Brook University.

Dr. Chen Yang; postdoctoral fellow in the Department of Molecular Genetics and Microbiology, Stony Brook University.

✦ Rotation Dates for 2013 - 2014

Winter	November 25 - February 7
Spring	February 10 - May 9

✦ Honors



Professor Erich Mackow, Department of Molecular Genetics & Microbiology, has been elected into the American Academy of Microbiology in recognition of his work on diseases caused by hantaviruses and dengue virus. Fellows are elected to the Academy for the highest levels of scientific achievement and contributions to the advancement of the field of microbiology through a highly selective process.

James Bliska, Professor of Molecular Genetics & Microbiology, has been elected Fellow of the American Association for the Advancement of Science. This honor is bestowed upon individuals for seminal contributions to research and is in recognition of his contributions to the field of microbial pathogenesis and bacterial-host interactions. Professor Bliska will be honored at the annual meeting of AAAS in Chicago on February 14, 2014.



✦ Honors (continued)



Training faculty member Wei-Xing Zong has been promoted to Professor of Molecular Genetics & Microbiology - congratulations!

✦ Advanced Readings in Molecular Genetics & Microbiology

Advanced Readings in Molecular Genetics and Microbiology, HBM 695, is a journal club-style course that is offered in the fall and spring semesters. The topic for spring 2013 is CRISPR/Cas systems, zinc finger nucleases, transcription activator-like effector nucleases, and targeted genome editing. Classes will be held on Tuesdays 11:00 AM - 12:00 noon in the Life Sciences second floor conference room. This course is open to all biomedical graduate students. Prerequisites are MCB 520 Graduate Biochemistry, MCB/HBM 503 Molecular Genetics, and MCB 656 Cell Biology. Students must also have passed their graduate program's qualifying exam. 1 credit, S/U grading; may be repeated for credit. Contact J. Hearing for more information (Janet.Hearing@stonybrook.edu).