

Molecular Genetics & Microbiology Graduate Program Newsletter

Summer, 2012 Vol. 5, No. 2



Publications

Chen, H.M., **Rosebrock, A.P.**, Khan, S.R., Fitcher, B., and Leatherwood, J.K. 2012. Repression of meiotic genes by antisense transcription and by Fkh2 transcription factor in *Schizosaccharomyces pombe*. *PLoS One* 7(1): e29917.

Cheng, J.Z., **Santana, A.**, Khan, S., Salinas, E., Forrest, J.C., Zheng, Y., Jaggi, S., Leatherwood, J., and Krug, L.T. 2012. Tiled Microarray Identification of Novel Viral Transcript Structures and Distinct Transcriptional Profiles During Two Modes of Productive Murine Gammaherpesvirus 68 Infection. *Journal of Virology* 86: 4340-4357.

Cheng, J.Z., Santana, A., Khan, S., Salinas, E., Forrest, J.C., **Zheng, Y.**, Jaggi, S., Leatherwood, J., and Krug, L.T. 2012. Tiled Microarray Identification of Novel Viral Transcript Structures and Distinct Transcriptional Profiles During Two Modes of Productive Murine Gammaherpesvirus 68 Infection. *Journal of Virology* 86: 4340-4357.

Klein, K.A., Fukuto, H.S., Pelletier, M., Romanov, G., **Grabenstein, J.P.**, Palmer, L.E., Ernst, R., and Bliska, J.B. 2012. A transposon site hybridization screen identifies galU and wecBC as important for survival of *Yersinia pestis* in murine macrophages. *Journal of Bacteriology* 194(3): 653-662.

Rasmussen, J.W., **Tam, J.W.**, Okan, N.A., Mena, P., Furie, M.B., Thanassi, D.G., Benach, J.L., and van der Velden, A.W. (2012) Phenotypic, morphological, and functional heterogeneity of splenic immature myeloid cells in the host response to tularemia. *Infection and Immunity* 80(7): 2371-2381.

Toledo, A., Coleman, J.L., Kuhlow, C.J., **Crowley, J.T.**, and Benach, J.L. 2012. The enolase of *Borrelia burgdorferi* is a plasminogen receptor released in outer membrane vesicles. *Infection and Immunity* 80(1): 359-368.

Vink, E.I., Yondola, M.A., **Wu, K.**, and Hearing, P. (2012) Adenovirus E4-ORF3-dependent relocalization of TIF1 α and TIF1 γ relies on access to the coiled-coil motif. *Virology* 422(2): 317-325.

Wang, C., Jiang, P., Sand, C., Paul, A.V., and Wimmer, E. (2012) Alanine scanning of poliovirus 2CATPase reveals new genetic evidence that capsid proteins/2CATPase interactions are essential for morphogenesis. *Journal of Virology* July 3 (Epub ahead of print).

Wu, K., Orozco, D., and Hearing, P. (2012) The adenovirus L4-22K protein is multifunctional and an integral component of crucial aspects of infection. *Journal of Virology* (in press).

Zheng, Y., **Lilo, S.**, Mena, P., and Bliska, J.B. (2012) YopJ-induced caspase-1 activation in *Yersinia*-infected macrophages: independent of apoptosis, linked to necrosis, dispensable for innate host defense. *PLoS One* 7(4): e36019.

Zheng, Y., Lilo, S., Mena, P., and Bliska, J.B. (2012) YopJ-induced caspase-1 activation in *Yersinia*-infected macrophages: independent of apoptosis, linked to necrosis, dispensable for innate host defense. *PLoS One* 7(4): e36019.

Meeting Presentations

Kullas, A., McClelland, M., Yang, H.J., Tam, J.W., Torres, A., Porwollik, S., Mena, P., McPhee, J.B., Bogomolnaya, L., Andrews-Polymenis, H., and van der Velden, A.W.M. (2012) Salmonella utilize L-asparaginase II to inhibit the response of mammalian T cells. Gordon Conference on Microbial Toxins and Pathogenicity, Waterville Valley, NH July 7 - 13.

Kullas, A., McClelland, M., Yang, H.J., **Tam, J.W.**, Torres, A., Porwollik, S., Mena, P., McPhee, J.B., Bogomolnaya, L., Andrews-Polymenis, H., and van der Velden, A.W.M. (2012) Salmonella utilize L-asparaginase II to inhibit the response of mammalian T cells. Gordon Conference on Microbial Toxins and Pathogenicity, Waterville Valley, NH July 7 - 13.

Wu, K., Orozco, D., and Hearing, P. (2012) L4-22K is Required for Adenovirus Genome Packaging. 2012 International DNA Tumor Virus Meeting, Montreal Canada July 16 - 21.

Yang, C., Ward, C.B., Skiena, S., Fitcher, B., and Wimmer, E. (2012) Development and Characterization of a Novel Codon Pair Deoptimized Influenza Virus Vaccine Candidate. 31st Meeting of the American Society for Virology, Madison, WI July 21-25.

Awards

Alexis Santana is one of 19 graduate students and postdoctoral fellows selected to attend the American Society for Microbiology Kadner Institute. The institute will be held July 21 - July 25 at Michigan State University and will focus on career opportunities in microbiology, research proposal preparation, scientific presentations & communication, effective teaching methods, and the development of professional standards in microbiology.

Kai Wu was one of five graduate students selected to receive a Kevin King/John Miller Travel Scholarship out of 31 applications. Kai will use the \$350 travel award to attend the 2012 International DNA Tumor Virus Meeting to be held in Montreal July 16 - 21.

Chen Yang has received an American Society for Virology Student Travel Grant in the amount of \$500 to attend the 31st annual ASV meeting in Madison, WI.

Recent Graduates

Congratulations to Matt Hatkoff on his successful dissertation defense on June 1, 2012. Matt's dissertation is titled "Roles of the Chaperone/Usher Pathways of *Yersinia pestis* in Interactions with Host Cells and Virulence". Matt will continue to work in David Thanassi's lab for a short period before beginning a postdoctoral position with Ken Bradley at UCLA.

Chunling Wang presented her dissertation seminar, "Functional Analysis of the Roles of Poliovirus Protein 2C^{ATPase} in Viral RNA Replication and Encapsidation Using Alanine Scanning Mutagenesis and Yeast Two Hybrid Analysis", on June 19, 2012. Chunling will continue her research as a postdoctoral fellow in Eckard Wimmer's laboratory.

First-Year Students Join Labs

Lawton Chung/Bliska Lab
Eve Klajbor/Kew Lab

Congratulations

Congratulations to Eckard Wimmer for having been elected to membership in the National Academies of Science. This great honor is in recognition of his distinguished research career and his scientific contributions.

Save the Date

The 34th annual Department of Molecular Genetics & Microbiology retreat will be held on Friday October 5th at the Port Jefferson Village Center. All graduate students working in MGM labs are encouraged to present a poster at the retreat.

The 6th annual Institute of Chemical Biology & Drug Discovery symposium, "Frontiers in Chemical Biology and Drug Discovery" will be held on Friday October 12th at the Charles B. Wang Center. The list of speakers may be found at <http://www.stonybrook.edu/commcms/icbdd/>.