

Molecular Genetics & Microbiology Graduate Program Newsletter

Fall 2015 Vol. 8, No. 3



2015 Publications

Chahales, P., and Thanassi, D.G. 2015. A more flexible lipoprotein sorting pathway. *Journal of Bacteriology* 197(10): 1702-1704.

Chahales, P., Hoffman, P.S., and Thanassi, D.G. Nitazoxanide inhibits pilus biogenesis by interfering with folding of the usher protein in the outer membrane. Submitted.

Farnoud, A.M., **Bryan, A.M.**, Kechichian, T., Luberto, C., and Del Poeta, M. 2015. The granuloma response controlling cryptococcosis in mice depends on the SK1-S1P pathway. *Infection and Immunity* 83(7): 2705-2713.

Minkah, N., Macaluso, M., Oldenburg, D.G., Paden, C.R., White, D.W., McBride, K.M., and Krug, L.T. 2015. Absence of the uracil DNA glycosylase of murine gammaherpesvirus 68 impairs replication and delays the establishment of latency in vivo. *Journal of Virology* 89(6): 3366-3379.

Mor, V., Rella, A., Farnoud, A.M., Singh, A., Munshi, M., **Bryan, A.**, Naseem, S., Konopka, J.B., Ojima, I., Bullesbach, E., Ashbaugh, A., Linke, M.J., Cushion, M., Collins, M., Ananthula, H.K., Sallans, L., Desai, P.B., Widerhold, N.P., Fothergill, A.W., Kirkpatrick, W.R., Patterson, T., Wong, L.H., Sinha, S., Giaver, G., Nislow, C., Flaherty, P., Pan, X., Cesar, G.V., de Melo Tavares, P., Frases, S., Miranda, K., Rodrigues, M.L., Luberto, C., Nimricher, L., and Del Poeta, M. 2015. Identification of a new class of antifungals targeting the synthesis of fungal sphingolipids. *MBio* 6: e00647.

Rella, A., Mor, V., Farnoud, A.M., Singh, A., Shamseddine, A.A., **Ivanova, E.**, Carpino, N., Montagna, M.T., Luberto, C., and Del Poeta, M. 2015. role of sterylglucosidase 1 (Sgl1) on the pathogenicity of *Cryptococcus neoformans*: potential applications for vaccine development. *Frontiers in Microbiology* 6: 836.

Sohn, S.Y., **Bridges, R.G.**, and Hearing, P. 2015. Proteomic analysis of ubiquitin-like posttranslational modifications induced by the adenovirus E4-ORF3 protein. *Journal of Virology* 89(3): 1744-1755.

Vink, E.I., **Zheng, Y.**, Yeasmin, R., Stamminger, T., Krug, L.T., and Hearing, P. 2015. Impact of adenovirus E4-ORF3 oligomerization and protein localization on cellular gene expression. *Viruses* 7: 2428-2449.

✦ 2015 Publications (continued)

Wang, E., Kawaoka, S., Roe, J.S., Shi, J., Hohmann, A.F., Xu, Y., **Bhagwat, A.S.**, Suzuki, Y., Kinney, J.B., and Vakoc, C.R. 2015. The transcriptional cofactor TRIM33 prevents apoptosis in B-lymphoblastic leukemia by deactivating a single enhancer. *eLife* e06377.

Werneburg, G.T., Henderson, N.S., Portnoy, E.B., Sarowar, S., Hultgren, S.J., Li, H., and Thanassi, D.G. 2015. The pilus usher controls protein interactions via domain masking and is functional as an oligomer. *Nature Structure and Molecular Biology* 22: 540-546.

✦ 2015 Conference Presentations

Bridges, R. Identification of Ubiquitin-like Post-translational Modifications Induced by the Adenovirus E4-orf3 Protein. 115th General Meeting of the American Society for Microbiology. May 30 - June 2, 2015, New Orleans, LA.

Chung, L.K., Schmidt, V.A., and Bliska, J.B. IQGAP1 is Important for the Secretion of IL-1 β in Macrophages and is Targeted by *Yersinia pestis* Type III Effector YopM. Keystone Symposium on Innate Immunity and Determinants of Microbial Pathogenesis. April 19-24, 2015. Olympic Valley, CA.

Espaillet, M.P. Defining the Role of acid Ceramidase in Ulcerative Colitis and the Inflammatory Response. International Ceramide Conference Sphingolipid Club Joint Meeting. May 6 - 10, 2015. Cesme, Turkey.

Minkah, N.K., Van Skike, N., Oldenburg, D.G., White, D.W., and Krug, L.T. Loss of the Gammaherpesvirus vFGAM ORF75A Tegument Protein Reduces Replication in Macrophages and is Deleterious to Latency Establishment *In Vivo*. 40th International Herpesvirus Workshop, Gammaherpesvirus Satellite Workshop. July 25 - 29, 2015. Boise, ID.

Minkah, N.K., **Van Skike, N.**, Oldenburg, D.G., White, D.W., and Krug, L.T. Loss of the Gammaherpesvirus vFGAM ORF75A Tegument Protein Reduces Replication in Macrophages and is Deleterious to Latency Establishment *In Vivo*. 40th International Herpesvirus Workshop, Gammaherpesvirus Satellite Workshop. July 25 - 29, 2015. Boise, ID.

✦ 2015 Awards

Bridges, R. 2015. Travel Award, \$500. *American Society for Microbiology*.

Chung, L. 2015. Distinguished Travel Award, \$1,500. Graduate Student Organization, Stony Brook University.

✦ 2015 Awards (continued)

Chung, L. 2015. Ruth L. Kirschstein National Research Service Award for Individual Predoctoral Fellows (F31). National Institutes of Allergy and Infectious Diseases.

Chung, L. (2015). Grant-in-Aid of Research Award, \$100. *Sigma Xi*.

Espaillet, M.P. (2015). Ruth L. Kirschstein National Research Service Award for Individual Predoctoral Fellows (F31). National Institutes of Health.

✦ 2015 Incoming Class

In addition to Aniska Chikhalya, Ramon Perez, and Sergio Salamanca, please welcome John Psonis, an MSTP student who has joined David Thanassi's group, to the MGM Program. John received a B.A. in Biophysics and Mathematics (and a minor in Chemistry) from the University of Pennsylvania and has completed two years of medical school at SBU.

✦ Molecular Genetics & Microbiology Retreat ~ Save the Date!

The annual departmental retreat will be held on Friday October 30th at the Port Jefferson Village Center. The agenda and poster abstracts will come under separate cover. We hope to see everyone there!

✦ Dissertation Defenses

Peter Chahales will defend his dissertation on Wednesday November 11, 2016 at 2 PM in Life Sciences room 038.

Friday January 29, 2016, Glenn Werneburg will defend his dissertation. His seminar will take place at 10 AM in Life Sciences room 038.

✦ 2015 Graduations

Dr. Nana Minkah, PhD (Laurie Krug's laboratory); Nana is now a postdoctoral fellow in the laboratory of Dr. Stefan Kappe at the Center for Infectious Disease Research, Seattle, WA.

Dr. Alexis Santana, PhD (Laurie Krug's laboratory); Alexis is conducting postdoctoral research in the laboratory of Dr. John Carucci in the Department of Dermatology, NYU.

Dr. Jason Tam, PhD (Adrianus van der Velden's laboratory); Jason has accepted a postdoctoral research position with Dr. Jenny Ting in the Lineberger Comprehensive Cancer Center at the University of North Carolina Chapel Hill.