

Molecular Genetics & Microbiology Graduate Program Newsletter

Summer 2018 Vol. 11, No. 2



📖 2018 Publications

Aznarez, I., **Nomakuchi, T.T.**, Tetenbaum-Novatt, J., Rahman, M.A., Fregoso, O., Rees, H., and Krainer, A.R. (2018). Mechanism of nonsense-mediated mRNA decay stimulation by splicing factor SFSF1. *Cell Reports* 23(7): 2186-2198.

Bhagwat, A.S., Lu, B., and Vakoc, C.R. (2018) Enhancer dysfunction in leukemia. *Blood* 131: 1795-1804.

Bryan, A.M., and Del Poeta, M. (2018). Sphingosine-1-phosphate receptors and innate immunity. *Cell Microbiology* 20(5): e12836.

Diago-Navarro, E., Motley, M.P., Ruiz-Perez, G., Yu, W., Austin, J., Seco, B.M.S., Xiao, G., **Chikhalya, A.**, Seeberger, P.H., and Fries, B.C. (2018). Novel, broadly reactive anticapsular antibodies against carbapenem-resistant *Klebsiella pneumoniae* protect from infection. *MBio* 9(2): e00091.

Diago-Navarro, E., **Motley, M.P.**, Ruiz-Perez, G., Yu, W., Austin, J., Seco, B.M.S., Xiao, G., Chikhalya, A., Seeberger, P.H., and Fries, B.C. (2018). Novel, broadly reactive anticapsular antibodies against carbapenem-resistant *Klebsiella pneumoniae* protect from infection. *MBio* 9(2): e00091.

Espaillet, M.P., Snider, A.J., Qiu, Z., Channer, B., Conat, N., Schuchman, E.H., Kew, R.R., Sheridan, B.S, Hannun, Y.A., and Obeid, L.M. (2018). Loss of acid ceramidase in myeloid cells suppresses intestinal neutrophil recruitment. *FASEB Journal* doi/10.1096/fj.201700585R.

Li, X.* , **Burton, E.M.*** , Koganti, S., Zhi, J., Doyle, R., Tenenbaum, S.A., Horn, B., and Bhaduri-McIntosh, S. (2018). KRAB-ZFP repressors enforce quiescence of oncogenic human herpesviruses. *Journal of Virology*, in press. *Co-first authors.

✦ 2018 Publications (continued)

Munshi, M.A., **Gardin, J.M.**, Singh, A., Luberto, C., Rieger, R., Bouklas, T., Fries, B.C., and Del Poeta, M. (2018) The role of ceramide synthases in the pathogenicity of *Cryptococcus neoformans*. *Cell Microbiology* 20(5): e12836.

Sinha, R., Kim, Y.J., **Nomakuchi, T.**, Sahashi, K., Hua, Y., Rigo, F., Bennett, C.F., and Krainer, A.R. (2018). Antisense oligonucleotides correct the familial dysautonomia splicing defect in IKBKAP transgenic mice. *Nucleic Acids Research* 46(10): 4833-4844.

Stawowczyk, M., Naseem, S., **Montoya, V.**, Baker, D.P., Konopka, J., and Reich, N.C. (2018). Pathogenic effects of IFIT2 and Interferon- β during fatal systemic *Candida albicans* infection. *mBio* 9: e00365-18.

Van Skike, N.D., Minkah, N.K., Hogan, C.H., Wu, G., **Benziger, P.T.**, Oldenburg, D.G., Kara, M., Kim-Holzappel, D.M., White, D.W., Tibbetts, S.A., French, J.B., and Krug, L.T. (2018). Viral FGARAT ORF75A promotes early events in lytic infection and gammaherpesvirus pathogenesis in mice. *PLoS Pathogens* 14(2): e1006843.

Van Skike, N.D., **Minkah, N.K.**, Hogan, C.H., Wu, G., Benziger, P.T., Oldenburg, D.G., Kara, M., Kim-Holzappel, D.M., White, D.W., Tibbetts, S.A., French, J.B., and Krug, L.T. (2018). Viral FGARAT ORF75A promotes early events in lytic infection and gammaherpesvirus pathogenesis in mice. *PLoS Pathogens* 14(2): e1006843.

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Werneburg, G.T., and Thanassi, D.G. (2018). Pili assembled by the chaperone/usher pathway in *Escherichia coli* and *Salmonella*. *EcoSal Plus* 8(1): doi 1128.

Zhang, J., Wang, Z., **Zhang, S.**, Chen, Y., Xiong, X., Li, X., Tonks, N.K., and Fan, G. (2018). Spatial regulation of signaling by the coordinated action of the protein tyrosine kinases MET and FER. *Cell Signalling*, in press.

✦ 2018 Presentations

Chikhalya, A., and Hearing, P. Recombinant Adenovirus Vectors for Gene Therapy. April 6, 2018, Showcasing Women's Research in STEM. Graduate Women in Science and Engineering, Stony Brook University.

Medici, N., and Bliska, J.B. Studies on Bacterial Toxins and Their Regulation of Host Immune System. April 6, 2018, Showcasing Women's Research in STEM. Graduate Women in Science and Engineering, Stony Brook University.

Orner, E., and Fries, B. Microfluidics as a New Tool to Access Lifespan and Age-related Traits of *Cryptococcus neoformans*. 2018 American Society for Microbiology Microbe meeting, June 7-11, Atlanta, GA.

✦ First-Year Students Join Labs!

Timothy Chu - Brian Sheridan's group
Stephen Gaudino - Pawan Kumar's group
Xun Lin - Pawan Kumar's group
Tyler Normile - Maurizio Del Poeta's group

✦ Save the Dates!



The 40th Annual Retreat of the Department of Molecular Genetics & Microbiology will take place on **Friday October 12** at the Port Jefferson Village Center. Retreat

photos from last year may now be viewed on our web site at
https://medicine.stonybrookmedicine.edu/mgm/gallery/retreat_2017

Incoming MGM graduate students - Carla Chaudhary, Cody Kempen, Kyle McEvoy, and Lia Parkin - will be attending orientation sessions the week of August 20th and we will welcome them at a BBQ to be held off-campus on **Wednesday August 22nd** 4-6pm. Details to follow...

The Department of Molecular Genetics & Microbiology will host a symposium on immunity and infection on **April 29, 2019**. Stay tuned for details!

Rotation Dates for 2018 - 2019

Fall - August 27 - November 21

Winter - November 26 - February 8

Spring - February 11 - May 3

Most Recent Graduate - Nick Van Skike

Congratulations to Dr. Nick Van Skike who defended his dissertation on June 7th. Nick will begin working as a medical writer at Flywheel Partners on July 23rd.