

# Molecular Genetics & Microbiology Graduate Program Newsletter

Winter 2017 Vol. 10, No. 4



## 2017 Publications

Bouklas, T., Alonso-Crisostomo, L. Szekely, T. Jr., Diago-Navarro, E., **Orner, E.P.**, Smith, K., Munshi M.A., Del Poeta, M., Balazsi, G., and Fries, B.C. (2017). Generational distribution of a *Candida glabrata* population: Resilient old cells prevail, while younger cells dominate in the vulnerable host. *PLoS Pathogens* 13(5): e1006355.

**Espaillet, M.P.**, Kew, R.R., and Obeid, L. (2017). Sphingolipids in neutrophil function and inflammatory responses: mechanisms and implications for intestinal immunity and inflammation in ulcerative colitis. *Advances in Biological Regulation* 63: 140-155.

Foreman, H.C., Armstrong, J., **Santana, A.L.**, Krug, L.T., and Reich, N.C. (2017). The replication and transcription activator of murine gammaherpesvirus 68 cooperatively enhances cytokine-activated, STAT3-mediated gene expression. *Journal of Biological Chemistry*, in press.

Li, X., **Burton, E.M.**, and Bhaduri-McIntosh, S. (2017). Chloroquine triggers Epstein-Barr virus replication through phosphorylation of KAP1/TRIM28 in Burkitt lymphoma cells. *PLoS Pathogens* 13(3): e1006249.

**McLaughlin, P.A.**, McClelland, M., Yang, H.J., Porwollik, S., Bogomolnaya, L., Chen, J.S., Andrews-Polymenis, H., and van der Velden, A.W. (2017). Contribution of asparagine catabolism to *Salmonella* virulence. *Infection and Immunity* 85(2): e00740-16.

**Motley, M.P.**, and Fries, B.C. 2017. A new take on an old remedy: generating antibodies against multidrug-resistant Gram-negative bacteria in a postantibiotic world. *mSphere* 2(4): e00397.

Naseem, S., Min, K., Spitzer, D., **Gardin, J.**, and Konopka, J.B. (2017). Regulation of hyphal growth and N-acetylglucosamine catabolism by two transcription factors in *Candida albicans*. *Genetics* 206(1): 299-314.

Ostapchuk, P., Suomalainen, M., **Zheng, Y.**, Boucke, K., Greber, U.F., and Hearing, P. (2107). The adenovirus major core protein VII is dispensable for virion assembly but is essential for lytic infection. *PLoS Pathogens* 13(6): e1006455.

**Parashar, K.**, **Kopping, E.**, Frank, D., Sampath, V., Thanassi, D.G., and Carpino, N. (2017). Increased resistance to intradermal *Francisella tularensis* LVS infection by inactivation of the Sts phosphatases. *Infection and Immunity* 85(9): e00406-17.

## 2017 Publications (continued)

Parrino, S.M., Si, H., Naseem, S., Groudan, K., **Gardin, J.**, and Konopka, J.B. (2017). cAMP-independent signal pathways stimulate hyphal morphogenesis in *Candida albicans*. *Molecular Microbiology* 103(5): 764-779.

**Santana, A.L.**, Oldenburg, D.G., Kirillov, V., Malik, L., Dong, Q., Sinayev, R., Marcu, K.B., White, D.W., and Krug, L.T. (2017) RTA occupancy of the origin of lytic replication during murine gammaherpesvirus 68 reactivation from B cell latency. *Pathogens* 6(1): e9.

**Zhang, S.**, Fan, G., Hao, Y., Hammell, M., Wilkinson, J.E., and Tonks, N.K. (2017). Suppression of protein tyrosine phosphatase N23 predisposes to breast tumorigenesis via activation of FYN kinase. *Genes and Development* 31(19): 1939-1957.

## 2017 Presentations

**Burton, E.**, Koganti, S., and Bhaduri-McIntosh, S. Novel Observations on KAP1/TRIM28 in the context of the Epstein-Barr Virus Lytic Cycle. 17<sup>th</sup> University of Pennsylvania Herpesvirus Symposium. June 23, 2017.

**Medici, N.**, **Chung, L.K.**, Chae, J.J., and Bliska, J.B. Studies of *Yersinia* Effector-triggered Pyrin Inflammasome Activation in Macrophages. ASM Microbe, June 1 - 5, New Orleans, LA.

**Minkah, N.K.\***, **Van Skike, N.\***, Wu, G., **Benziger, P.T.**, Kara, M., Tibbetts, S.A., Kim-Holzapfel, D., French, J.B., Oldenburg, D.G., White, D.W., and Krug, L.T. Absence of ORF75A, a Member of the Gammaherpesvirus FGARAT Family, Reduces the Specific Infectivity of MHV68 Particles and Impairs Acute Replication and Reactivation from Latency in the Host. 17<sup>th</sup> University of Pennsylvania Herpesvirus Symposium. June 23, 2017. \*Equal contribution.

**Minkah, N.K.\***, **Van Skike, N.\***, Wu, G., **Benziger, P.T.**, Kara, M., Tibbetts, S.A., Kim-Holzapfel, D., French, J.B., Oldenburg, D.G., White, D.W., and Krug, L.T. Absence of the Viral FGARAT ORF75A Reduces the Specific Infectivity of Particles and Impairs Replication and Dissemination of Murine Gammaherpesvirus *in vivo*. 36<sup>th</sup> Annual Meeting of the American Society for Virology, June 24-28, 2017. \*Equal contribution.

**Parashar, K.**, **Kopping, N.**, Frank, D., Sampath, V., Thanassi, D.G., and Carpino, N. Increased Resistance to Intradermal *Francisella tularensis* LVS Infection by Inactivation of the Sts Phosphatases. Microbial Pathogenesis and Host Response, Cold Spring Harbor Laboratory, September 12 - 16, 2017.

## Rotation Dates for 2017 - 2018

Winter ~ November 27 through February 9

Spring ~ February 12 through May 4

## Fridays at Four

A new MGM program for graduate student professional development and career planning will debut this year. These monthly meetings will be informal panel discussions and workshops led by MGM graduate students, faculty, postdoctoral fellows, and IREP faculty and staff. All graduate students in the MGM Program are encouraged to participate and graduate students from other programs are welcome. The schedule for the spring semester 2018 series follows. A separate panel discussion on careers for graduates of biomedical PhD programs is being planned for the spring 2018. Mark your calendars and stay tuned for details!

Date	Topic
March 9	Funding Opportunities for Attending Conferences/What Can the GSO Do for You?
April 13	How to Find a Postdoctoral Position
May 11	Scientific Conferences and Networking

## 2017 Graduates

Dr. Rebecca Bridges  
Dr. Siwei Zhang

## 2017 Awards

John Psonis - Outstanding Poster Award, Molecular Genetics & Microbiology Annual Retreat, October 2017

Erika Orner - Teresa Haire Memorial Award, Department of Molecular Genetics & Microbiology, Stony Brook University, October 2017

Nick Van Skike - Distinguished Service Award, Department of Molecular Genetics & Microbiology, Stony Brook University, October 2017