

# Molecular Genetics & Microbiology Graduate Program Newsletter

Fall 2017 Vol. 10, No. 3



## 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.

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. (2017). 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.

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.

## 2017 Publications (continued)

**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.

## 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-Holzappel, 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-Holzappel, 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.

## Save the Dates

The 39th Annual Retreat of the Department of Molecular Genetics & Microbiology will be held on Friday October 20, 2017 at the Port Jefferson Village Center.

Mark your calendar - the annual Oktoberfest is scheduled for Friday October 27. Stay tuned for details.

## Rotation Dates for 2017 - 2018

Fall ~ August 28 through November 22

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. A tentative schedule for the 2017 - 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
September 8	Tips for Giving Seminars and Poster Presentations
<b>October 13</b>	<b>Applying for Fellowships in the Biomedical Sciences</b>
November 10	Building an Educator Portfolio
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