

Molecular Genetics & Microbiology Graduate Program Newsletter

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Publications

Di Talia, S., Wang, H., Skotheim, J.M., [Rosebrock, A.P.](#), Futcher, B., and Cross, F.R. (2009) Daughter-specific transcription factors regulate cell size control in budding yeast. *PLoS Biology* (7): e1000221.

Grubor, V., Krasnitz, Z., Troge, J.E., Meth, J.L., Lakshmi, B., Kendall, J.T., Yamrom, B., Alex, G., Pai, D., [Navin, N.](#), Hufnagel, L.A., Lee, Y.Y., Cook, K., Allen, S.L., Rai, K.R., Damle, R.N., Calissano, C., Chrriorazzi, N., Wigler, M., and Esposito, D. (2009) Novel genomic alterations and clonal evolution in chronic lymphocytic leukemia revealed by representational oligonucleotide microarray analysis (ROMA). *Blood* (113): 1294-1303.

[Karen, K.A.](#), Hoey, P.J., Young, C.S.H., and Hearing, P. (2009) Temporal regulation of the MRN complex during adenovirus infection. *Journal of Virology* (83): 4565-4573.

[Diamond, A.E.](#), Park, J.S., Tachikawa, H., and Neiman, A.M. (2009) The anaphase promoting complex targeting Aml1 links meiotic exit to cytokinesis during sporulation in *Saccharomyces cerevisiae*. *Molecular Biology of the Cell* (20): 134-145.

[LaRocca, T.J.](#), Holthausen, D.J., Hsieh, C., Renken, C., Mannella, C.A., and Benach, J.L. (2009) The bactericidal effect of a complement-independent antibody is osmolytic and specific to *Borrelia*. *Proceedings of the National Academy of Sciences* (106): 10752-10757.

[Lucs, A.V.](#), Muller, W.J., and Muthuswamy, S.K. (2009) Shc is required for ErbB2-induced inhibition of apoptosis but is dispensable for cell proliferation and disruption of cell polarity. *Oncogene*, in press.

Mueller, S., [Coleman, J.R.](#), and Wimmer, E. (2009) Putting synthesis into biology: a viral view of genetic engineering through de novo gene and genome synthesis. *Chemical Biology* (16): 337-347.

[Navin, N.](#), Krasnitz, A., Rodgers, L., Cook, K., Meth, J., Kendall, J., Riggs, M., Eberling, Y., Troge, J., Grubor, V., Levy, D., Lundin, P., Månér, S., Zetterberg, Z., Hicks, J., and Wigler, M. (2009) Inferring tumor progression from genomic heterogeneity. *Genome Research*, in press.

[Noel, B.L.](#), Lilo, S., Capurso, D., Hill, J., and Bliska, J. (2009) *Yersinia pestis* can bypass protective antibodies to LcrV and activation with IFN γ to survive and induce apoptosis in murine macrophages. *Clinical Vaccine and Immunology*, in press.

Quigley, B.R., Zähler, D., **Hatkoff, M.**, Thanassi, D.G., and Scott, J.R. (2009) Linkage of T3 and Cpa pilins in the *Streptococcus pyogenes* M3 pilus. *Molecular Microbiology* (72): 1379-1394.

Viladevall, L., St. Amour, C.V., **Rosebrock, A.**, Schneider, S., Zhang, C., Allen, J.J., Shokat, K.M., Schwer, B., Leatherwood, J.K., and Fisher, R.P. (2009) TFIIH and P-TEFb coordinate transcription with capping enzyme recruitment at specific genes in fission yeast. *Molecular Cell* (33): 738-751.

Zeituni, A.E., Jotwani, R., Carrion, J., and Cutler, C.W. (2009) Targeting of DC-SIGN on human dendritic cells by minor fimbriated *Porphyromonas gingivalis* strains elicits a distinct effector T cell response. *Journal of Immunology* (183): 5694-5704.

Conference Presentations

Bublitz, D., Benach, J., and Furie, M. (2009) *Francisella tularensis* Suppresses the Proinflammatory Response of Endothelial Cells via the Endothelial Protein C Receptor. International Tularemia Conference, Berlin, Germany.

Kullas, A., McClelland, M., Andrews-Polymeris, H.L., and van der Velden, A. (2009) Inhibition of T Cells by *Salmonella enterica* serovar Typhimurium. Third American Society for Microbiology Conference on Salmonella: Biology, Pathogenesis, and Prevention. Aix en Provence, France.

Navin, N., Krasnitz, A., Rodgers, L., Cook, K., Meth, J., Kendall, J., Riggs, M., Eberling, Y., Troge, J., Grubor, V., Levy, D., Lundin, P., Månér, S., Zetterberg, A., Hicks, J., and Wigler, M. (2009) Multiple Genomic Subpopulations in Solid Breast Tumors. AACR Advances in Breast Cancer Research, San Diego, CA.

Navin, N., Krasnitz, A., Rodgers, L., Cook, K., Meth, J., Kendall, J., Riggs, M., Eberling, Y., Troge, J., Grubor, V., Levy, D., Lundin, P., Månér, S., Zetterberg, A., Hicks, J., and Wigler, M. (2009) Inferences of Tumor Progression from Genomic Subpopulations. *Genome Informatics*, Cold Spring Harbor, NY

Zeituni, A., Jotwani, R., and Cutler, C.W. (2009) Role for DC-SIGN (CD209), Minor Fimbriae in Entry of Oral Pathogen *Porphyromonas gingivalis* into Human Dendritic Cells (DC), Leading to Immunosuppressive DC Phenotype. 109th General Meeting of the American Society for Microbiology, Philadelphia, PA.

Zheng, Y., and Bliska, J. (2009) An Isoform of the YopJ in *Yersinia pestis* Stimulates Inflammatory Apoptosis in Macrophages Through a Process that Involves Inhibition of IKKb and Activation of an ASC/NALP3/Caspase-1 Inflammasome. Gordon Research Conference for Microbial Adhesion and Signal Transduction, Newport, RI.

✦ MGM Retreat and Graduate Student Awards

The annual *Molecular Genetics and Microbiology* retreat was held on Friday, October 2nd at the Port Jefferson Village Center. The retreat included a poster session featuring the work of graduate students in the MGM Program as well as all students training in MGM laboratories and postdoctoral fellows. Awards for "Best Poster" were given to Erica Ullman (Wei-Xing Zong's laboratory) and Huei-Mei Chen (Janet Leatherwood's laboratory).

Teresa Haire Memorial Award

The Teresa Haire Memorial Award was created in 2006 in memory of an MGM graduate student who passed away suddenly in her 3rd year in the Program. Ying Zheng, a 4th year graduate student training in James Bliska's laboratory, was chosen as the recipient of this award in recognition of her passion for research.

Distinguished Service Award

Each year the MGM Program acknowledges the contributions students make to the Program by presenting the Distinguished Service Award. Contributions include assistance during new student recruitment, mentoring of fellow graduate students, service as the student representative on the Program's Executive Committee, and service as the Program's representative to the Graduate Student Organization. This year we recognized the outstanding contributions of two graduate students, Amy Kullas (Adrianus van der Velden's laboratory) and Kai Wu (Patrick Hearing's laboratory).

Abrahams Award for Outstanding Achievement

The Abrahams Award was created in 1983 by in memory of Dr. Irving Abrahams, Head of the Division of Laboratory Research at the Nassau County Department of Health and adjunct faculty member in the Department of *Molecular Genetics and Microbiology*. The award honors graduate students in the laboratories of MGM training faculty members for outstanding scientific achievements. The 2009 Abrahams Award was given to Nicholas Navin, a 4th year student training in the laboratory of Michael Wigler at Cold Spring Harbor Laboratory.

✦ First-Year Student Rotations

Patrick McLaughlin: Wei-Xing Zong, Jim Bliska, TBA
Brodie Miles: Nancy Reich, Patrick Hearing, Nick Carpino
Nana Minkah: Laurie Krug, Wei-Xing Zong, TBA
Esma Ucisik-Akkaya: Jamie Konopka, Aaron Neiman, TBA
Xingmin Xiang: Eckard Wimmer, Nancy Reich, Jim Bliska
Yueting Zheng: Laurie Krug, David Thanassi, Patrick Hearing

2009 Graduates

Dr. Christopher Czura, Vice President of Scientific Affairs, The Feinstein Institute for Medical Research

Dr. Kimberly Feres, Instructor, Community College of Denver

Dr. Kasey Karen, Postdoctoral Fellow, Johns Hopkins University

Dr. Timothy LaRocca, Postdoctoral Fellow, Stony Brook University

Dr. Qinyuan Li

Dr. Sarit Lilo, Postdoctoral Fellow, NYU Medical Center

Dr. Alexandra Lucs, Postdoctoral Fellow, The Feinstein Institute for Medical Research

Dr. Elizabeth Mulligan, Postdoctoral Fellow, Brookhaven National Laboratory

Dr. Betty Noel, Biology Teacher, Marymount School

Dr. Adam Rosebrock, Postdoctoral Fellow, Cold Spring Harbor Laboratory

Provost's Graduate Student Seminar Series

Congratulations to Nicholas Navin for being selected to speak in the new Provost's Graduate Student Seminar Series. Nick will be presenting his research to the campus community on February 24, 2010 at 1:00 in the Wang Chapel.