

Molecular Genetics & Microbiology Graduate Program Newsletter

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Publications

Alvarez, F.J., Douglas, L.M., **Rosebrock, A.**, Konopka, J.B. 2008. The Sur7 protein regulates plasma membrane organization and prevents intracellular cell wall growth in *Candida albicans*. *Molecular Biology of the Cell* (19): 5214-25.

Cello, J., Toyoda, H., **DeJesus, N.**, Dobrikova, E.Y., Gromeier, M., and Wimmer, E. 2008. Growth phenotypes and biosafety profiles in poliovirus-receptor transgenic mice of recombinant oncolytic polio/human rhinoviruses. *Journal of Medical Virology* (80): 352-359.

Coleman, J.R., Papamichail, D., Skiena, S., Futcher, B., Wimmer, E., and Mueller, S. 2008. Virus attenuation by genome-scale changes in codon pair bias. *Science* (320): 1784-1787.

Dutta, C., Patel, P.K., **Rosebrock, A.**, Oliva, A., Leatherwood, J., and Rhind, N. 2008. The DNA replication checkpoint directly regulates MBF-dependent G1/S transcription. *Molecular and Cellular Biology* (28): 5977-5985.

Feres, K.J., Ischenko, I., and Hayman, M. 2008. The RON receptor tyrosine kinase promotes MSP-independent cell spreading and survival in breast epithelial cells. *Oncogene*, in press.

Grubor, V., Krasnitz, A., Troge, J.E., Meth, J.L., Lakshmi, B., Kendall, J.T., Yamrom, B., Alex, G., Pai, D., **Navin, N.**, Hufnagel, L.A., Lee, Y.H., Cook, K., Allen, S.L., Rai, K.R., Damle, R.N., Calissano, C., Chiorazzi, N., Wigler, M., Esposito, D. 2008. Novel genomic alterations and clonal evolution in chronic lymphocytic leukemia revealed by representational oligonucleotide microarray analysis (ROMA). *Blood*, in press.

Ivanov, M.I., **Noel, B.L.**, Rampersaud, R., Mena, P., Benach, J.L., and Bliska, J.B. 2008. Vaccination of mice with a Yop translocon complex elicits antibodies that are protective against infection with F1- *Yersinia pestis*. *Infection and Immunity* (76): 5181-5190.

LaRocca, T.J., and Benach, J.L. 2008. The important and diverse roles of antibodies in the host response to *Borrelia* infections. *Current Topics in Microbiology and Immunology* (319): 63-103.

LaRocca, T.J., Katona, L.I., Thanassi, D.G., and Benach, J.L. 2008. Bactericidal action of a complement-independent antibody against relapsing fever *Borrelia* resides in its variable region. *Journal of Immunology* (180): 6222-6228.

Lilo, S., **Zheng, Y.**, and Bliska, J.B. 2008. Caspase-1 activation in macrophages infected with *Yersinia pestis* KIM requires the type III secretion system effector YopJ. *Infection and Immunity* (76):3911-3923.

Lo, H.C., Wan, L., **Rosebrock, A.**, Futcher, B., Hollingsworth, N.M. 2008. *Cdc7-Dbf4* regulates NDT80 transcription as well as reductional segregation during budding yeast meiosis. *Molecular Biology of the Cell* (19): 4956-4967.

☒ Publications - continued

Medina, G., Pincetic, A., Ehrlich, L.S., Zhang, Y., Tang, Y., Leis, J., and Carter, C.A. 2008. Cellular Tsg101 can replace Nedd4 function in ASV Gag release but not membrane targeting. *Virology* (377): 30-38.

Mulligan, E.A., and Dunn, J.J. 2008. Cloning, purification and initial characterization of E. coli McrA, a putative 5-methylcytosine-specific nuclease. *Protein Expression and Purification* (62): 98-103.

Patel, P.K., Kommajosyula, N., **Rosebrock, A.**, Bensimon, A., Leatherwood, J., Bechhoefer, J., and Rhind, N. 2008. The Hsk1/Cdc7 replication kinase regulates origin efficiency. *Molecular Biology of the Cell*, in press.

Runco, L.M., Myrczek, S., Bliska, J.B., and Thanassi, D.G. 2008. Biogenesis of the F1 capsule and analysis of the ultrastructure of *Yersinia pestis*. *Journal of Bacteriology* (190): 3381-3385.

Ullman, A.J., and Hearing, P. 2008. Cellular proteins PML and Daax mediate an innate antiviral defense antagonized by the adenovirus E4 ORF3 protein. *Journal of Virology* (82): 7325-7335.

☒ Conference Presentations

Carrion, J.A., Jotwani, R., **Zeituni, A.**, and Cutler, C.W. (2008) Atherogenic Markers in *P. gingivalis*-stimulated dendritic cells and chronic periodontitis in situ. 2008 International Association for Dental Research Meeting, Toronto, ON Canada.

Feres, K., Ischenko, I., and Hayman, M. (2008) MSP-Independent Activation of RON in Breast Epithelial Cells Promotes Cell Adhesion, Cell Spreading and Evasion of Cell Death. *Frontiers in Cell Migration: From Mechanism to Disease*, Bethesda, MD

Karen, K., and Hearing, P. (2008) Adenovirus Genomes and the MRN Complex During the Early Phase of Infection. ICGEB DNA Tumor Virus Meeting, Madison, WI.

LaRocca, T.J., Katona, L.I., Thanassi, D.G., and Benach, J.L. (2008) The Bactericidal Action of a Complement-Independent Antibody Against Relapsing Fever *Borrelia* resides in its variable region. *Biology of Spirochetes Gordon Conference*, Ventura, CA

LaRocca, T.J., Katona, L.I., Thanassi, D.G., and Benach, J.L. (2008) Probing the Mechanism of Complement-Independent Bactericidal Antibodies Against *Borrelia* spp. 108th General Meeting of the American Society for Microbiology, Boston, MA.

Li, Q., and Thanassi, D.G. (2008) Investigation of the N- and C-terminal Domains of the PapC Usher in P Pilus Assembly. 108th General Meeting of the American Society for Microbiology, Boston, MA.

Lilo, S., **Zheng, Y.**, and Bliska, J.B. (2008) Caspase-1 Activation in Macrophages Infected with *Yersinia pestis* KIM Requires the Type III Secretion System Effector YopJ. 108th General Meeting of the American Society for Microbiology, Boston, MA.

Zeituni, A., Carrion, J.A., and Cutler, C. (2008) Fimbriae-Deficient Mutant of *P. gingivalis* Targets C-Type Lectin Receptor DC-SIGN on DCs, Involved in Dampening Immunosurveillance. 2008 International Association for Dental Research General Meeting, Toronto, ON Canada.

Awards

Feres, Kimberly. Travel Awards from the Cell Migration Consortium and the Graduate Student Organization, Stony Brook University.

Karen, Kasey. Teresa Haire Memorial Award. Department of Molecular Genetics and Microbiology, Stony Brook University, Stony Brook, NY.

LaRocca, Timothy. Abrahams Award for Outstanding Achievement by a Graduate Student. Department of Molecular Genetics and Microbiology, Stony Brook University, Stony Brook, NY.

Lilo, Sarit. ASM Travel Grant. American Society for Microbiology.

Navin, Nicholas. Best Poster Award, Department of Molecular Genetics and Microbiology 2008 Retreat. Department of Molecular Genetics and Microbiology, Stony Brook University, Stony Brook, NY.

Noel, Betty. Distinguished Service Award. Department of Molecular Genetics & Microbiology, Stony Brook University, Stony Brook, NY.

Incoming Class Fall 2008

Jameson Crowley, B.S., Boston College
Kathleen Delgiorno, M.S., University of Florida, Gainesville
Christopher Doyle, B.S., Assumption College
Elitza Ivanova, B.S., Stony Brook University
Alexis Santana, B.S., SUNY New Paltz
Jason Tam, B.S., SUNY Binghamton

2008 Graduates

Dr. Robert Coleman, Ph.D.
Dr. Aviva Diamond, Ph.D.
Dr. Gisselle Medina, Ph.D.
Dr. Amanda Ullman, Ph.D.