

Graduate Students achievements and publications

graduate director: GERALD H. THOMSEN

Grants, Fellowships, and Awards

Dame, Tarah. (2006) Distinguished Service Award, \$200, *Stony Brook University, Graduate Program in Genetics*, Stony Brook, NY.

Dame, Tarah. (2006) Howard Hughes Medical Institute Graduate Teaching Fellowship, *LIGASE*, Stony Brook, New York.

Gersch, Robert. (2006) Poster Presentation Award. Silencing Mustang During Chondrocyte Proliferation and Differentiation. *Stony Brook University, Graduate Program in Genetics Annual Retreat*, Stony Brook, NY.

Gersch, Robert. (2006) Distinguished Service Award. *Stony Brook University, Graduate Student Organization (GSO)* Stony Brook, NY.

Mese, Gulistan. (2005) American Society for Cell Biology (ASCB) Predoctoral Student Travel Award, \$400. *American Society for Cell Biology (ASCB)* Bethesda, Maryland/USA.

Nolan, Marissa. (2006), Distinguished Service Award, \$200, *Stony Brook University, Graduate Program in Genetics*, Stony Brook, NY.

Okan, Nihal.(2006) Corporate Activities Program Student Travel Grant Award.

Siolas, Despina and Gregory Hannon. (2005) Breast Cancer Research Program Idea Award, \$500,000/3 years. *Department of Defense*, Washington, DC.

Jointly Authored Publications/Research Reports/Reviews

Adam M. DeRosa, Rickie Mui, Miduturu Srinivas and Thomas W. White. (2006) Functional characterization of a naturally occurring Cx50 Truncation. *Investigative Ophthalmology & Visual Science* (in Press).

Chun-hong Xia, Debra Cheung, **Adam M. DeRosa**, Bo Chang, Woo-Kuen Lo, Thomas W. White, and Xiaohua Gong. (2006) Knockin connexin prevents severe cataracts caused by an ϵ 8-G22R mutation. *Journal of Cell Science*. Vol. 119 (in press).

Gersch, Robert. Lombardo, Frank. Hadjiargyrou, Michael. (2005) Reactivation of Hox gene expression during bone regeneration. *Journal of Orthopaedic Research*. Jul;23(4):882-90.

Zhong, Nan, **Gersch, Robert**, Hadjiargyrou, Michael. (2006) Wnt signaling activation during bone regeneration and the role of Dishevelled in chondrocyte proliferation and differentiation. *Bone*, Jul;39(1):5-16. **Epub 2006 Feb 3.**

Ho, Ivan, Hannan, F., Tong, J.J., Zhu, Y., Nurnberg, P., Zhong, Y. (2006) Effect of neurofibromatosis type I mutations on a novel pathway for adenylyl cyclase activation requiring neurofibromin and Ras. *Hum. Mol. Genet.* 15 (7): pp. 1087-98.

Okan N. A., Bliska J. B., Karzai A. W. (2006) A Role for the SmpB-SsrA system in *Yersinia pseudotuberculosis* pathogenesis. *PLoS Pathogen* 2006 Jan;2(1):e6. **Epub 2006 Jan 27**

Silva JM, Li MZ, Chang K, Ge W, Golding MC, Rickles RJ, **Siolas D**, Hu G, Paddison PJ, Schlabach MR, Bradshaw J, Kulkarni A, Cavet G, Sachidanandam R, McCombie WR, Cleary MA, Elledge SJ, Hannon GJ. (2005) Second-generation shRNA libraries covering the mouse and human genomes. *Nature Genetics*. 37(11):1281-8

Siolas, D et al. (2005) Synthetic shRNAs as potent RNAi triggers. *Nature Biotechnology*. 23(2):227-31. "Fast Breaking Paper" by ISI Essential Science Indicators
ISI Essential Science Indicators lists highly cited papers in 22 broad fields of science. These papers comprise the top 1% of papers in each field and each year from 1995 through 2005. The lists are updated every two months to reflect their current citation counts and also include new papers that enter the top percentile. The publication listed above was classified as a "Fast Breaking Paper" in October 2005.

Wendel, H-G, Malina, A., Zhao, Z., Zender, L., Kogan, S.C., Cordon-Cardo, C., Pelletier, J., Lowe, S. W. Determinants of sensitivity and resistance to rapamycin-chemotherapy drug combinations *in vivo*

Abstracts, Conferences/Colloquia, Presentations, Symposiums, Workshops

Dame, TM, Orenzoff BL, & Furie MB. (2006) Partners in Crime: *Borrelia burgdorferi* and Gamma Interferon Induce Synergistic Production of Chemokines, and Enhance Endothelial Recruitment of T Lymphocytes. *Gordon Research Conference: Spirochetes, Biology of*. Il Ciocco, Lucca, Italy

DeRosa, A.M., Gong, X., White, T.W. (2006) Electrophysiological Properties of Gap Junctions Expressing a Spontaneous Cx50 Mutation *The Association for Research in Vision and Ophthalmology* Ft. Lauderdale, FL.

White, T.W. , **DeRosa, A.M.**, Sellitto, C., Cheung, D., Xia, C.-H., Gong, X. (2005) Rescue of a Semi-Dominant Connexin50 Cataract (Lop10) by Knockin of Wild-Type Connexin46. *The Association for Research in Vision and Ophthalmology* Ft. Lauderdale, FL.

Gersch, Robert. (2006) Functional Perturbation of Mustang in Chondrocytes. *ASBMR*. Philadelphia, PA.

Ho, Ivan. (2006) Neurofibromatosis type 1 is involved in learning and memory processes (platform). *47th Annual Drosophila Research Conference*. Houston, TX.

Mese, Gulistan. (2005) Functional Comparison of Connexin26 Wild Type and Deafness-Causing Mutant Channels. *American Society for Cell Biology (ASCB) 45th Annual Meeting*, San Francisco, CA/USA.

Nolan, Marissa, Basu S and Muthuswamy, SK (2005) Biological effects of Par6 over-expression in mammary epithelia. *The American Society for Cell Biology 45th Annual Meeting*, San Francisco, CA

Nolan, Marissa, and Muthuswamy, SK (2005) Biological effects of activating ErbB2 receptor tyrosine kinase in polarized growth arrested mammary epithelia. *Era of Hope, Department of Defense Breast Cancer Research Program Meeting*, Philadelphia, PA

Okan N. A., Karzai, A. W. (2005) A Role for the SmpB-SsrA System in *Yersinia pseudotuberculosis* Pathogenesis. *International Union of Microbiological Societies*, San Francisco, CA.

Okan N. A., Bliska J.B., Karzai, A. W. (2006) Characterization of smpB-ssrA Mutations in *Yersinia pseudotuberculosis*. *106th General Meeting of the American Society for Microbiology*, Orlando, FL.

Publications :

2003

Huck N, **Moore JM,** Federer M, Grossniklaus U. (2003) The Arabidopsis mutant *feronia* disrupts the female gametophytic control of pollen tube reception. *Development* 130(10):2149-59

Vander Zwan CJ, Wheeler JC, Li LH, **Tracey WD,** Gergen JP. (2003) A DNA-binding-independent pathway of repression by the Drosophila Runt protein. *Blood Cells Mol Dis.* 30(2):207-22.

Li L, **Mignone J**, Yang M, Matic M, Penman S, Enikolopov G, Hoffman RM. (2003) Nestin expression in hair follicle sheath progenitor cells. *Proc Natl Acad Sci USA*. 100(17):9958-61.

Hemish J, Nakaya N, Mittal V, Enikolopov G. (2003) Nitric oxide activates diverse signaling pathways to regulate gene expression. *J Biol Chem*. 278(43):42321-9.

Kim SY, Herbst A, Tworkowski KA, Salghetti SE, Tansey WP. (2003) Skp2 regulates Myc protein stability and activity. *Mol Cell*. 11(5):1177-88.

Bernstein E, Kim SY, Carmell MA, Murchison EP, Alcorn H, Li MZ, Mills AA, Elledge SJ, Anderson KV, Hannon GJ. (2003) Corrigendum: Dicer is essential for mouse development. *Nat Genet*. 35(3):287.

Bernstein E, Kim SY, Carmell MA, Murchison EP, Alcorn H, Li MZ, Mills AA, Elledge SJ, Anderson KV, Hannon GJ. (2003) Dicer is essential for mouse development. *Nat Genet*. 35(3): 215-7.

Goff A, Ehrlich LS, Cohen SN, Carter CA. (2003) Tsg101 control of human immunodeficiency virus type 1 Gag trafficking and release. *J Virol*. 77(17):9173-82.

Brenner ED, Stevenson DW, McCombie RW, **Katari MS**, Rudd SA, Mayer KF, Palenchar PM, Runko SJ, Twigg RW, Dai G, Martienssen RA, Benfey PN, Coruzzi GM. (2003) Expressed sequence tag analysis in *Cycas*, the most primitive living seed plant. *Genome Biol*. 4(12):R78.

Cannon SB, McCombie WR, Sato S, Tabata S, Denny R, Palmer L, **Katari M**, Young ND, Stacey G (2003) Evolution and microsynteny of the apyrase gene family in three legume genomes. *Mol Genet Genomics*. 270(4):347-61

Landry J, Sutton A, Hesman T, Min J, Xu RM, Johnston M, Sternglanz R. (2003) Set2-catalyzed methylation of histone H3 represses basal expression of GAL4 in *Saccharomyces cerevisiae*. *Mol Cell Biol*. 23(17):5972-8.

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Landry J, Sternglanz R. (2003) Yeast Fms1 is a FAD-utilizing polyamine oxidase. *Biochem Biophys Res Commun*. 303(3):771-6.

Carmell MA, Zhang L, Conklin DS, Hannon GJ, Rosenquist TA. (2003) Germline transmission of RNAi in mice. *Nat. Struct Biol*. 10(2):91-2

Greeve J, Philipsen A, Krause K, Klapper W, Heidorn K, Castle BE, **Janda J**, Marcu KB, Parwaresch R. (2003) Expression of activation-induced cytidine deaminase in human B-cell non-Hodgkin lymphomas. *Blood*. 101(9):3574-80

Hemish J, Nakaya N, Mittal V, Enikolopov G. (2003)
Nitric oxide activates diverse signaling pathways to regulate gene expression. *J Biol Chem.* 278(43):42321-9.

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RNase III enzymes and the initiation of gene silencing. *Nat Struct Mol Biol.* 2004 Mar;11(3):214-8.

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Nature. 2004 Jul 15;430(6997):368-71.

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[Gersch RP, Lombardo F, McGovern SC, Hadjiargyrou M.](#)
Reactivation of Hox gene expression during bone regeneration.
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[Silva JM, Li MZ, Chang K, Ge W, Golding MC, Rickles RJ, **Siolas D**, Hu G, Paddison PJ, Schlabach MR, Sheth N, Bradshaw J, Burchard J, Kulkarni A, Cavet G, Sachidanandam R, McCombie WR, Cleary MA, Elledge SJ, Hannon GJ.](#)

Second-generation shRNA libraries covering the mouse and human genomes.

Nat Genet. 2005 Nov;37(11):1281-8. Epub 2005 Oct 2.

[Siolas D, Lerner C, Burchard J, Ge W, Linsley PS, Paddison PJ, Hannon GJ, Cleary MA.](#)

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Nat Biotechnol. 2005 Feb;23(2):227-31. Epub 2004 Dec 26.

[Janssens H, Kosman D, Vanario-Alonso CE, **Jaeger J**, Samsonova M, Reinitz J.](#)

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