

GENETICS

GRADUATE DIRECTOR: GERALD THOMSEN

❖ Grants, Fellowships and Awards

Carey, Lucas B. (2010) Postdoctoral Fellowship, \$28,000. *Weizmann Institute of Science*, Rehovot, Israel.

Rajaram, Megha. (2010) A.D. Sobel - ASIP Education Fund Trainee Award, \$500. *American Society for Investigative Pathology*, Bethesda, MD.

❖ Singly Authored Publications/Research Reports/Reviews

Lachance, Joseph. (2009) Inbreeding, pedigree size, and the most recent common ancestor of humanity. *Journal of Theoretical Biology* 261: 238-247.

❖ Jointly Authored Publications/Research Reports/Reviews

Bombardelli, Lorenzo, Carpenter, E.S., Wu, A.P., Alston, N., Delgiorno, K.E., and Crawford, H.C. (2010). Pancreas specific ablation of beta1 integrin induces tissue degeneration by disrupting acinar cell polarity. *Gastroenterology* 138(7): 2531-40.

Carey, Lucas B., J.K. Leatherwood, et al. (2008). Huxley's revenge: cell-cycle entry, positive feedback, and the G1 cyclins. *Molecular Cell* 31(3): 307-308.

Wang, H., **Carey, Lucas B.** et al. (2009). Recruitment of Cln3 cyclin to promoters controls cell cycle entry via histone deacetylase and other targets. *PLoS Biol* 7(9): e1000189.

Cheloufi, Sihem, Camila O. Dos Santos, Mark M.W. Chong and Gregory J. Hannon (2010) A dicer-independent miRNA biogenesis pathway that requires Ago catalysis. *Nature* 465(7298): 584-9.

Tam, O.H., Aravin, A.A., Stein, P., Girard, A., Murchison, E.P., **Cheloufi, Sihem,** Hodges, E., Anger, M., Sachidanandam, R., Schultz, R.M., Hannon, G.J. (2008) Pseudogene-derived small interfering RNAs regulate gene expression in mouse oocytes. *Nature* 453(7194): 534-8.

Liu, C., **Gersch, Robert P.,** Hawke, T.J., Hadjiargyrou, M. (2010) Silencing of *Mustn1* inhibits myogenic fusion and differentiation. *Am J Physiol Cell Physiol.* 298(5):C1100-8.

Prieto-Echagüe, V., **Gucwa, Azad,** Craddock, B.P., Brown, D.A., Miller, W.T. (2010) Cancer-associated Mutations Activate the Nonreceptor Tyrosine Kinase Ack1. *The Journal of Biological Chemistry* 285: 10605-10615.

Hosszu, Kinga, Santiago-Schwarz, F., Peerschke, E., Ghebrehiwet, B. (2009). Peripheral blood monocytes express surface C1q and its orientation may dictate early events of monocyte to dendritic cell differentiation. *J Immunol.* 182: 134.62.

Hosszu, Kinga, Santiago-Schwarz, F., Peerschke, E., Ghebrehiwet, B. (2010) Evidence that a C1q/C1qR system regulates monocyte-derived dendritic cell differentiation at the interface of innate and acquired immunity. *Innate Immunity* 16(2): 115-127.

Klein, Kathryn A. and Bliska, J.B. (2009) How *Yersinia pestis* becomes a foreign obstruction in the digestive system of the macrophage. *Autophagy* 5(6): 882-3.

Lachance, Joseph, True, J.R. (2010) X-autosome incompatibilities in *Drosophila melanogaster*: tests of Haldane's rule and geographic patterns within species. *Evolution.* doi: 10.1111/j.1558-5646

Wang, L.W., **Leonhard-Melief, Christina**, Haltiwanger, R.S., Apte, S.S. (2009) Post-translational modification of thrombospondin type-1 repeats in ADAMTS-like 1/punctin-1 by C-mannosylation of tryptophan. *J Biol Chem* 284(44): 30004-15.

Platz, Gabrielle J., Bublitz, D.C., Mena, P., Benach, J.L., Furie, M.B., and Thanassi, D.G. (2010) A toIC mutant of *Francisella tularensis* is hypercytotoxic and elicits increased proinflammatory responses from host cells. *Infection and Immunity* 78: 1022-1031.

Penzo, M., Molteni, R., Suda, T., **Samaniego, Sylvia**, Raucchi, A., Habel, D.M., Miller, F., Jiang, H.P., Li J., Pardi, R., Palumbo, R., Olivotto, E., Kew, R.R., Bianchi, M.E., Marcu, K.B. (2010) Inhibitor of NK-kappaB kinases alpha and beta are both essential for high mobility group box 1-mediated chemotaxis. *Journal of Immunology* 184(8): 4497-509.

Weinthal, D., **Tovkach, Andriy**, Zeevi, V. and Tzfira, T. (2010). Genome Editing in Plant Cells by Zinc Finger Nucleases. *Trends in Plant Science* 15(6):308-21.

Ulloa, Nadine, and Deutsch, D. (2010) Assessment of a spectrophotometric assay for monoacylglycerol lipase activity. *American Association of Pharmaceutical Sciences Journal*. 12(2): 197-201.

❖ **Abstracts, Conferences/Colloquiums, Presentations, Symposiums, Workshops**

Cheloufi, Sihem. (2010) Why is Ago catalysis conserved in vertebrates? *Keystone Symposia: RNA Silencing: Mechanisms, Biology and Application*. Keystone, CO.

Cheloufi, Sihem. (2010) A Dicer independent biogenesis of an erythropoietic miRNA requires Argonaute 2 catalysis. *microRNAs in Human Disease*. Frigate Bay, Saint Kitts and Nevis, West Indies.

He, Miao, Wang, Xiaowo, Zhang, Michael Q., Hannon, Gregory, Huang, Z Josh. (2010) Cell type based analysis of miRNA profile in neocortex. *Neural circuits, Cold Spring Harbor Laboratory*, Cold Spring Harbor, NY. (poster)

Hosszu, Kinga, Santiago-Schwarz, F., Peerschke, E., Ghebrehiwet, B. (2009) Peripheral blood monocytes express surface C1q and its orientation may dictate early events of monocyte to dendritic cell differentiation. *96th Annual Meeting of the American Association of Immunologists*. Seattle, WA.

Lachance, Joseph. (2009) X-autosome incompatibilities in *Drosophila melanogaster*: tests of Haldane's rule and geographic patterns within species. *Evolution 2009*. Moscow, IN.

Rossmann, Marlies, Chabes, A., Stillman, B. (2009). Investigating the role of PCNA in heterochromatin formation. *Yeast Cell Biology Conference and Eukaryotic DNA Replication & Genome Maintenance Conference*. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Sitaraman, Varsha. (2010) Genetically Re-engineered AAV Rep78 Identifies Sequence-Restricted Inhibitory Regions Affecting Adenoviral Replication. *13th Annual Meeting of the American Society for Cell and Gene Therapy*. Washington, D.C.

Torres, AnnMarie. (2010) Characterization of a *Salmonella*-induced T cell inhibitor. *Keystone Symposium: Lymphocyte Activation and Gene Expression*. Breckenridge, CO.

Vink, Elizabeth, Wu, K., Yondola, M., Hearing, P. (2009) Characterization of TIF1alpha and TIF1gamma Protein Domains Required for Interaction with the Adenovirus E4-orf3 Protein. *DNA Tumor Virus Meeting*. Oxford, UK.

Wu, Xiaoyun, Huang, Z. Josh. (2010) Visualizing the activation and plasticity of GABAergic neurons through activity-regulated transcription of the Gad67 gene. *Neuronal Circuit Meeting*. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Wu, Xiaoyun, Jing, Deqiang, Lee, Francis, Huang, Z. Josh. (2010) Development of fluorescence based reporter mouse strains for brain wide functional mapping of interneurons. *New York Biotech Association 20th Meeting*. New York, NY.

❖ **Post-Doctorates Obtained and Professional Appointments**

Carey, Lucas. (2010) Postdoctoral Fellow. Department of Applied Math and Computer Science, *Weizmann Institute of Science*, Rehovot, Israel.

Gersch, Robert. (2009) Assistant Professor. Department of Surgery, *Stony Brook University*, Stony Brook, NY.

Tovkach, Andriy. (2009) Postdoctoral Fellow. *CSIRO Plant Industry*, Canberra, Australia.