



# Points of Interest

in Biomedical Sciences

Newsletter Date March 2010

## HAPPENINGS IN THE SCHIMENTI LAB

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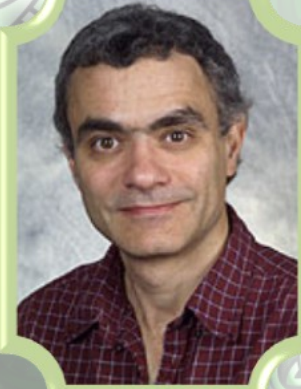
May love and laughter  
light your days,  
and warm your heart and  
home.

May good and faithful  
friends be yours,  
wherever you may roam.

May peace and plenty  
bless your world  
with joy that long  
endures.

May all life's passing  
seasons  
bring the best to you and  
yours!

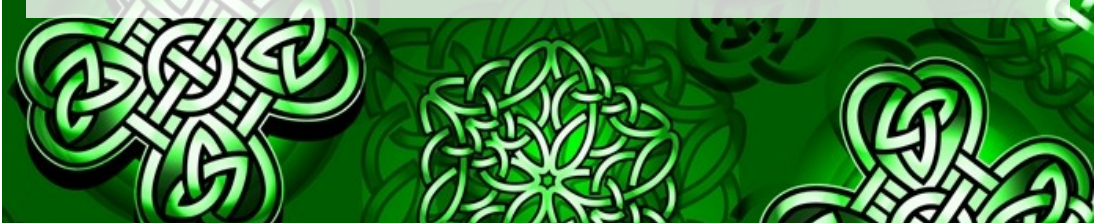
An Old Irish Blessing



Last year, we were awarded a grant from NYSTEM (the New York Stem Cell Program) to establish a "Mammalian Cell Reprogramming Core (MCRC)." The cornerstone is the "Induced Pluripotent Stem Cell (iPS) Core Laboratory", located on the 9th floor of the VRT. The primary charge of the core is to derive induced pluripotent stem (iPS) cells from a variety of mammalian species. Christian Abratte (ca258@cornell.edu), who arrived in the Fall, staffs the core and has succeeded in generating mouse

iPS lines routinely. He is now working on deriving canine iPS lines. The core is accessible to the Cornell community for help with any stem cell-related project.

Another component of the MCRC is the Stem Cell Genomics and Bioinformatics Unit. In addition to having deployed a new Solexa/Illumina DNA sequencer in the DNA sequencing facility, we have recently hired Lishuang Shen (ls539@cornell.edu), a bioinformatician. His charge is to assist researchers interpret and analyze the vast amounts of data generated by various types of genomics experiments. Lishuang has a Ph.D. in genomics and molecular genetics plus Master's degrees in bioinformatics and genetics. He has much experience in "omics" data mining and integration of high-throughput data, tool design and development, and has worked in projects related to cancer stem cells, microarray databases, and GWAS. Lishuang will wear out his shoes splitting time between the Computational Biology Services Unit (Rhodes Hall) and the 9th FL VRT office suite (where he will engage wet lab scientists regarding their projects).





**WELCOME**

We are happy to announce that Dr. Laura Munoz has formally joined the Department of Biomedical Sciences.

Dr. Munoz has a Ph.D. from the Department of Mechanical Engineering at the University of California, Berkeley, where she specialized in the application of control theory to freeway traffic flows. Later she worked as a Postdoctoral Researcher at Partners for Advanced Transit and Highways in Richmond, California. She then taught and conducted research as an Adjunct Assistant Professor in the Department of Mechanical and Aerospace Engineering here at Cornell, and also taught Mathematics at TC3.

As a Research Associate supported by a new NIH supplemental grant, she will be applying her control theory expertise to the taming and control of abnormal cardiac rhythms. She has been and will continue to work with Dr. Niels Otani on this problem, within the research group of Dr. Robert Gilmour, Jr.

Please join us in welcoming Dr. Munoz to our department!

**THEIR NEW LUCKY CHARM***Skyla Lee Weiss*

**Birthdate:** January 18, 2010 at 10:28pm

**Weight:** 7 lb, 11 oz.

**Length:** 19 in

*Daughter of Sylvia Lee*

**&**

*Bob Weiss*





## PUBLICATIONS

- Cheng, L., A. V. Ramesh, A. Flesken-Nikitin, J. Choi and A. Y. Nikitin (2010). "Mouse models for cancer stem cell research." *Toxicol Pathol* 38(1): 62-71.
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- Corney, D. C., C. I. Hwang, A. Matoso, M. Vogt, A. Flesken-Nikitin, A. K. Godwin, A. A. Kamat, A. K. Sood, L. H. Ellenson, H. Hermeking and A. Y. Nikitin (2010). "Frequent downregulation of miR-34 family in human ovarian cancers." *Clin Cancer Res* 16(4): 1119-1128.
- Grodio, J. L., E. L. Buckles and K. A. Schat (2009). "Production of house finch (*Carpodacus mexicanus*) IgA specific anti-sera and its application in immunohistochemistry and in ELISA for detection of *Mycoplasma gallisepticum*-specific IgA." *Vet Immunol Immunopathol* 132(2-4): 288-294.
- Johnston, A. N., S. A. Center, S. P. McDonough and K. L. Warner (2009). "Influence of biopsy specimen size, tissue fixation, and assay variation on copper, iron, and zinc concentrations in canine livers." *Am J Vet Res* 70(12): 1502-1511.
- Li, B., M. A. Antonyak, J. E. Druso, L. Cheng, A. Y. Nikitin and R. A. Cerione (2010). "EGF potentiated oncogenesis requires a tissue transglutaminase-dependent signaling pathway leading to Src activation." *Proc Natl Acad Sci U S A* 107(4): 1408-1413.
- Liao, C.-P., M. Liang, M. B. Cohen, A. Flesken-Nikitin, J. H. Jeong, A. Y. Nikitin and P. Roy-Burman (2010). "Mouse Prostate Cancer Cell Lines Established from Primary and Postcastration Recurrent Tumors " *Hormones and Cancer*.
- Mukai, C., M. Bergkvist, J. L. Nelson and A. J. Travis (2009). "Sequential reactions of surface- tethered glycolytic enzymes." *Chem Biol* 16(9): 1013-1020.
- Welsh, I. C. and T. P. O'Brien (2009). "Signaling integration in the rugae growth zone directs sequential SHH signaling center formation during the rostral outgrowth of the palate." *Dev Biol* 336(1): 53-67.
- Yan, W., S. M. Faisal, S. P. McDonough, C. F. Chang, M. J. Pan, B. Akey and Y. F. Chang (2010). "Identification and characterization of OmpA-like proteins as novel vaccine candidates for Leptospirosis." *Vaccine*.
- Yasuda, K., D. W. Scott, H. N. Erb and S. P. McDonough (2009). "Prevalence of infiltrative lymphocytic mural folliculitis in equine inflammatory skin diseases." *Equine Vet J* 41(8): 824-826.
- Yazinski, S. A., P. M. Westcott, K. Ong, J. Pinkas, R. M. Peters and R. S. Weiss (2009). "Dual inactivation of Hus1 and p53 in the mouse mammary gland results in accumulation of damaged cells and impaired tissue regeneration." *Proc Natl Acad Sci U S A* 106(50): 21282-21287.



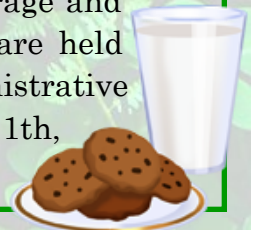
May Lovelace  
Cornell University  
T8004 VRT, Box 17  
Ithaca, NY 14853  
mrl34@cornell.edu  
607-253-3840

Editor:  
Mark Roberson  
T4-018 VRT, Box 11  
Ithaca, NY 14853  
msr14@cornell.edu

The Points of Interest Newsletter is published monthly by the Department of Biomedical Sciences of the College of Veterinary Medicine at Cornell University



Administrative Staff in The College of Veterinary Medicine are invited to Administrative Networking Lunches (you bring your lunch - Beverage and Cookies provided). These luncheons are held once a month. The next Administrative Networking Lunch will be March 11th, 2010 from 12-1pm in the Hagan Room.



### Outlook 2007 Getting Started with Email

- a free, 90-minute CIT workshop

### Outlook 2007 Getting Started - Email Topics

- download the workbook used in CIT's workshop (.pdf)

### Outlook 2007 Quick Reference - Email

- download a short guide illustrating the most commonly used email features in Outlook (.pdf)

### Outlook 2007 Power User (workshop)

- a free, 60-minute CIT workshop on advanced Outlook features

### Outlook 2007 Q&A (workshop)

- a free, 90-minute CIT workshop



### SkillSoft's Outlook and Calendaring courses

- web-based courses on your own schedule

# FYI

## Outlook got you down?

Check out these resources from Cornell Information Technologies:

(CTRL + click to follow link)



If you are reading this newsletter in hard copy, these links can be found at:

<http://www.cit.cornell.edu/training/exchange/outlook.cfm>

## BIOMEDICAL SCIENCES SEMINAR SERIES

MARCH 16

**DR. SIMON J. RHODES**

Associate Dean for Graduate Studies  
Professor, Department of Cellular  
and Integrative Physiology  
Indiana University School of Medicine  
Indianapolis, IN

*"Transcriptional Regulation in Pituitary  
Development and Disease"*

MARCH 23

- No Seminar - Spring Break -

MARCH 30

**DR. SHU-BING QIAN**

Assistant Professor  
Division of Nutritional Sciences  
Cornell University

*"Chaperone Stress in Growth and Aging"*

