



Newsletter Date: September/October 2012

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### Quotables:

Honest good humor is the oil and wine of a merry meeting, and there is no jovial companionship equal to that where the jokes are rather small and laughter abundant.

~ Washington Irving

## Farewells

Please join me in congratulating Dr. Robert Gilmour, Jr. on his appointment as Vice President for Research at the University of Prince Edward Island, effective September 1, 2012. Robert emerged from a strong pool of candidates for this prestigious position largely based on the qualities that have contributed to his long term success at Cornell. As VP for Research at UPEI he will continue to provide leadership in research and graduate education to further UPEI's



rapidly growing programs that span four colleges, including the Atlantic Veterinary College, and two schools.

# and New Beginnings



Originally from Kentucky, I attended the University of Kentucky before moving to Ithaca for veterinary training at Cornell. I am now beginning training in laboratory animal medicine and graduate training to pursue a PhD in the Department of Biomedical Sciences. I am very happy to stay at Cornell and in Ithaca---I now have more time to make it to all the wineries! I also enjoy running and horseback riding. I am very grateful that I can continue to combine my

clinical and research interests in such an outstanding institution.

I am originally from India and went to Vet school there, but have stayed in the sunny south (Georgia) to work as a small animal veterinarian and pursue graduate studies (M.S.) in Infectious Diseases for the past few years. When not working, I enjoy spending time with my family, playing cricket (similar to baseball), taking photographs of nature and other outdoor activities. I am very happy to join the lab animal medicine residency program at Cornell which has diverse range of animal species.





#### CONGRATULATIONS!

Dr. Robin Davisson was awarded the 2012 Arthur C. Corcoran Memorial Lecture by the American Heart Association's Council for High Blood Pressure Research. One of the highest honors in the field, the lecture was established in 1977 to honor Arthur C. Corcoran for his contributions to hypertension research. It is presented at the annual meeting of this council by a distinguished honoree from the field of hypertension. Congratulations, Robin!

Dr. Colin Young, postdoctoral associate in the Davisson Lab, received a New Investigator Award at the 2012 American Heart Association Council for High Blood Pressure Research meeting in Washington, DC. Colin received this award for his paper entitled "Ablation of Leptin Receptors in the Brain Subfornical Organ Attenuates Leptin-induced increases in Renal Sympathetic Nerve Activity (RSNA) But Spares It's Effects on Food Intake and Body Weight". Congratulations, Colin!

Dr. Colin Young, postdoctoral associate in the Davisson Lab, was selected by the American Heart Association as a recipient of the "Best of AHA Specialty Conferences" award. Colin's abstract entitled "Ablation of Leptin Receptors in the Brain Subfornical Organ Attenuates Leptin-induced increases in Renal Sympathetic Nerve Activity (RSNA) But Spares It's Effects on

Food Intake and Body Weight" was recognized among the top 10% of accepted abstracts in the AHA Specialty Conferences. Dr. Young will re-present this study at the national AHA Scientific Sessions in Los Angeles, November 3-7, 2012. Abstracts in this session will be exposed to special international news media and will be covered in the AHA Scientific Session news breaks. Congratulation, Colin!

Congratulations to Dr. Kim Holloway, who was just awarded the R00 phase of funding from the NICHD for her K99 "Transition to Independence" award. The R00 award is equivalent to an R01 grant in status and represents Kim's first fully independent NIH funding. Congratulations!

Congratulations to Dr. Xianfei (Fei) Sun for successful defense of her thesis. Fei will be sticking around the department for a while as a Postdoctoral Fellow in the Cohen Lab.

Congratulations to ANDREW MODZELESKI from the Cohen Lab for winning the first prize for the best poster at the 2012 STEM CELL SYMPOSIUM.

Congratulations to Dr. Mark Roberson and collaborators throughout the University on the recent award notice from NICHD of continued funding on their T32 (Reproductive Sciences and Genomics) training grant. This grant provides trainee support and institutional allowances for postdoctoral fellows, DVM/MDs seeking PhDs and BS/MS seeking PhDs.

Additional Kudos for Dr. Sones who spoke at the Advances in Equine Health Practices and Procedures for Breeders, Owners, & Trainers equine seminar on Saturday, August 18 in Saratoga Springs.

## **PUBLICATIONS**

- Chandler, E. M., B. R. Seo, J. P. Califano, R. C. Andresen Eguiluz, J. S. Lee, C. J. Yoon, D. T. Tims, J. X. Wang, L. Cheng, S. Mohanan, M. R. Buckley, I. Cohen, A. Y. Nikitin, R. M. Williams, D. Gourdon, C. A. Reinhart-King and C. Fischbach (2012). "Implanted adipose progenitor cells as physicochemical regulators of breast cancer." <u>Proceedings of the National Academy of Sciences of the United States of America</u> 109(25): 9786-9791.
- Chandra, S., S. M. Faisal, J. W. Chen, T. T. Chen, S. P. McDonough, S. Liu, M. A. Moreira, B. L. Akey, C. F. Chang and Y. F. Chang (2012). "Immune response and protective efficacy of live attenuated Salmonella vaccine expressing antigens of Mycobacterium avium subsp. paratuberculosis against challenge in mice." Vaccine.
- Chang, H. and S. S. Suarez (2011). "Two distinct Ca(2+) signaling pathways modulate sperm flagel-lar beating patterns in mice." Biology of Reproduction 85(2): 296-305.
- Cherry, E. M., F. H. Fenton and R. F. Gilmour, Jr. (2012). "Mechanisms of ventricular arrhythmias: a dynamical systems-based perspective." <u>American journal of physiology</u>. Heart and circulatory physiology **302**(12): H2451-2463.
- Craven, M., C. E. Egan, S. E. Dowd, S. P. McDonough, B. Dogan, E. Y. Denkers, D. Bowman, E. J. Scherl and K. W. Simpson (2012). "Inflammation drives dysbiosis and bacterial invasion in murine models of ileal Crohn's disease." PLoS One 7(7): e41594.
- Gonzalez, A. D., G. Wang, E. M. Waters, K. L. Gonzales, R. C. Speth, T. A. Van Kempen, J. Marques-Lopes, C. N. Young, S. D. Butler, R. L. Davisson, C. Iadecola, V. M. Pickel, J. P. Pierce and T. A. Milner (2012). "Distribution of angiotensin type 1a receptor-containing cells in the brains of bacterial artificial chromosome transgenic mice." <u>Neuroscience</u>.
- Kiso, W. K., A. Asano, A. J. Travis, D. L. Schmitt, J. L. Brown and B. S. Pukazhenthi (2012). "Pretreatment of Asian elephant (Elephas maximus) spermatozoa with cholesterol-loaded cyclodextrins and glycerol addition at 4 degrees C improves cryosurvival." Reproduction, fertility, and development.
- Llano, E., Y. Herran, I. Garcia-Tunon, C. Gutierrez-Caballero, E. de Alava, J. L. Barbero, J. Schimenti, D. G. de Rooij, M. Sanchez-Martin and A. M. Pendas (2012). "Meiotic cohesin complexes are essential for the formation of the axial element in mice." <u>The Journal of cell biology</u> **197**(7): 877-885.
- Lyndaker, A. M., A. J. Modzelewski and I. C. Welsh (2012). "Reproductive and developmental genomics retreat at cornell university, 2012." <u>Molecular reproduction and development</u> **79**(9): 588-591.
- McCune, A. R. and J. C. Schimenti (2012). "Using genetic networks and homology to understand the evolution of phenotypic traits." <u>Current genomics</u> **13**(1): 74-84.
- Modzelewski, A. J., R. J. Holmes, S. Hilz, A. Grimson and P. E. Cohen (2012). "AGO4 Regulates Entry into Meiosis and Influences Silencing of Sex Chromosomes in the Male Mouse Germline." <u>Developmental cell</u> **23**(2): 251-264.
- Mohanan, S., B. D. Cherrington, S. Horibata, J. L. McElwee, P. R. Thompson and S. A. Coonrod (2012). "Potential role of peptidylarginine deiminase enzymes and protein citrullination in cancer pathogenesis." Biochemistry research international **2012**: 895343.
- Moore, B. A., P. Baumhardt, M. Doppler, J. Randolet, B. F. Blackwell, T. L. Devault, E. R. Loew and E. Fernandez-Juricic (2012). "Oblique color vision in an open-habitat bird: spectral sensitivity, photoreceptor distribution and behavioral implications." <u>The Journal of experimental biology</u> **215**(Pt 19): 3442-3452.
- Mukai, C. and A. J. Travis (2012). "What sperm can teach us about energy production." <u>Reproduction</u> in domestic animals = Zuchthygiene 47 **Suppl** 4: 164-169.
- Sun, X., X. Wu and P. E. Cohen (2012). "Non-human primates exhibit errors in meiosis I." <u>Molecular reproduction and development</u>.

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The Points of Interest Newsletter is published bi-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. Our next Administrative Networking Luncheon will occur on November 13th and December 11th in the Hagan Room.



## DEPARTMENT OF BIOMEDICAL SCIENCES SEMINAR SERIES

## TUESDAY, OCTOBER 23, 2012

### DR. FRANCESCA COLE

Assistant Professor
Department of Molecular Carcinogenesis
The University of Texas
MD Anderson Cancer Center
Smithville, TX

"Preaching About the Converted: Homologous Recombination Mechanisms in Mouse Meiosis."

## TUESDAY, OCTOBER 30, 2012 DR. ANNA DI GREGORIO

Associate Professor
Department of Cell and Developmental Biology
Weill Medical College of Cornell University
New York, NY

"Control of Gene Expression in Notochord Evolution and Development: Lessons from a Sea Squirt"

## TUESDAY, NOVEMBER 6, 2012 DR. YI ZHOU

Research Associate
Department of Biomedical Sciences
Cornell University - College of Veterinary
Medicine
Ithaca, NY
"Dysregulation of Thrombospondin 2 in
Preeclampsia"

## **TUESDAY, NOVEMBER 20, 2012**

## DR. PAUL HIGGINS

Professor and Director Center for Cell Biology and Cancer Research Albany Medical College Albany, NY

"The TGF-\$\beta\$ Target SERPINE1 Gene in Fibrosis and Cancer: Complex regulation and therapeutic opportunities."

