



Volume 5, Issue 5/6

# Points of Interest

in Biomedical Sciences

Newsletter Date: May/June 2012

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## Quotables:

My father gave me the greatest gift anyone could give another person, he believed in me.

- Jim Valvano

Dr. Heinrich Lob, from the Davisson - Ithaca lab, was awarded an Early Career Research Recognition Award by the American Physiological Society (Neural Control and Autonomic Regulation Section) at the Experimental Biology 2012 meeting (San Diego, CA) for his abstract, "p22<sup>phox</sup> in the Paraventricular Nucleus of the Brain Contributes to Diet-induced Obesity." This award is given to senior postdocs or early career faculty whose current and past work contributes significantly to a better understanding of neural control and autonomic regulation of physiological function. Dr. Lob showed in his study that prevention of oxidative stress in an important brain structure that regulates cardiovascular and energy homeostasis blocks weight gain during high fat feeding in mice. This is a novel finding which might lead to further insight in the central nervous system regulation of obesity. Congratulations, Heinrich!



Dr. Heinrich Lob

Dr. Colin Young from the Davisson-Ithaca lab was awarded first place in the Trainee Highlights in Physiological Genomics Session at the Experimental Biology 2012 meeting (San Diego, CA) for his abstract "Endoplasmic reticulum stress mediates nuclear factor- $\kappa$ B activation in the subfornical organ during slow-pressor angiotensin-II hypertension." This award recognizes the most outstanding oral presentation given by a trainee within the Physiological Genomics Featured Topic session. Congratulations Colin!



Dr. Colin Young



Alessandro Bailetti, an undergraduate in the Lin lab, was recently awarded an NSF predoctoral fellowship. He was also recognized at the Cornell Undergraduate Research Board Spring Symposium, where his poster was selected Best in Category for Biological Sciences. He was also named a Jack Kent Cooke Continuing Scholar, which provides funds for students pursuing graduate study. Alessandro is a graduating senior who emigrated from Peru at the age of 16. His project involves studying the role of Notch signaling on neurogenesis in the olfactory system. Alessandro will enroll at NYU this fall to pursue graduate studies in developmental biology and genetics.



Adam Bisogni, a second year graduate student in the Lin lab, received an Honorable Mention for his NSF predoctoral fellowship application on axon guidance in the olfactory system. He joins five other students in the Biological and Biomedical Sciences (BBS) program at the Vet College who were recently honored by the NSF (<http://www.news.cornell.edu/stories/April12/VetCourse.html>).



Dr. Erin Daugherty, a Clinical Fellow co-mentored by Kirk Maurer and Bob Weiss, recently received the 'Best Preclinical/Basic Research Presentation Award' at the Cornell University College of Veterinary Medicine 2011/12 Clinical Investigators' Day



In April the Nikitin laboratory was awarded a one year Seed Grant for Collaboration Between Cornell University-Ithaca and Weill Cornell Medical College Faculty. Alexander Nikitin (PI), Zeynep Gumus, WCMC, (Co-PI) and Xiling Shen, School of Electrical and Computer Engineering (Co-I). Title of the grant is "Discovery of Cancer-specific Synthetic Lethal Pathways"



## PUBLICATIONS

- Capone, C., G. Faraco, J. R. Peterson, C. Coleman, J. Anrather, T. A. Milner, V. M. Pickel, R. L. Davisson and C. Iadecola (2012). "Central cardiovascular circuits contribute to the neurovascular dysfunction in angiotensin II hypertension." The Journal of neuroscience : the official journal of the Society for Neuroscience **32**(14): 4878-4886.
- Choi, N. W., S. S. Verbridge, R. M. Williams, J. Chen, J. Y. Kim, R. Schmehl, C. E. Farnum, W. R. Zipfel, C. Fischbach and A. D. Stroock (2012). "Phosphorescent nanoparticles for quantitative measurements of oxygen profiles in vitro and in vivo." Biomaterials **33**(9): 2710-2722.
- Daugherty, E. K., G. Balmus, A. Al Saei, E. S. Moore, D. Abi Abdallah, A. B. Rogers, R. S. Weiss and K. J. Maurer (2012). "The DNA damage checkpoint protein ATM promotes hepatocellular apoptosis and fibrosis in a mouse model of non-alcoholic fatty liver disease." Cell Cycle **11**(10): 1918-1928.
- Farrar, M. J., I. M. Bernstein, D. H. Schlafer, T. A. Cleland, J. R. Fetcho and C. B. Schaffer (2012). "Chronic in vivo imaging in the mouse spinal cord using an implanted chamber." Nature methods **9**(3): 297-302.
- Ness, S. L., J. Peters-Kennedy, G. Schares, J. P. Dubey, L. D. Mittel, H. O. Mohammed, D. D. Bowman, M. J. Felipe, S. E. Wade, N. Shultz and T. J. Divers (2012). "Investigation of an outbreak of besnoitiosis in donkeys in northeastern Pennsylvania." Journal of the American Veterinary Medical Association **240**(11): 1329-1337.
- Otani, N. F. (2011). "Action Potential Propagation Through Tissue Lacking Gap Junctions: Application to Engrafted Cells in Myocardial Infarcts." Computing in cardiology **38**: 25-28.
- Pavlova, I., K. R. Hume, S. A. Yazinski, J. Flanders, T. L. Southard, R. S. Weiss and W. W. Webb (2012). "Multiphoton microscopy and microspectroscopy for diagnostics of inflammatory and neoplastic lung." Journal of biomedical optics **17**(3): 036014.
- Qi, Q., W. Huang, Y. Bai, G. Balmus, R. S. Weiss and A. August (2012). "A unique role for ITK in survival of invariant NKT cells associated with the p53-dependent pathway in mice." Journal of immunology **188**(8): 3611-3619.
- Shui, B., A. Ozer, W. Zipfel, N. Sahu, A. Singh, J. T. Lis, H. Shi and M. I. Kotlikoff (2012). "RNA aptamers that functionally interact with green fluorescent protein and its derivatives." Nucleic acids research **40**(5): e39.

A new group has formed within the department! The Biomedical Sciences Technical Science Group brings together all technical staff for monthly meetings with the opportunity to learn more about valuable resources within the department and across campus. Monthly topics range from core facilities to regulations and procedures to self-development. Watch for meeting announcements in the "Events This Week" bulletins. If you would like to be added to our email list for up to date information, please contact Jane Lee at [JCL54@cornell.edu](mailto:JCL54@cornell.edu)



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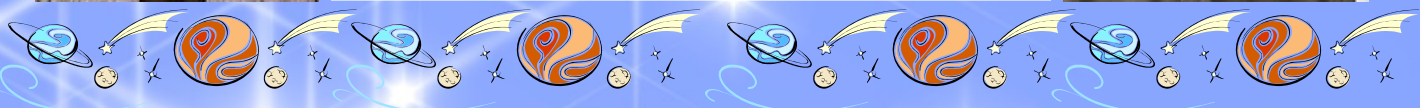
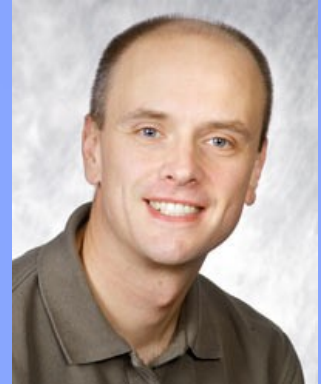


The Points of Interest Newsletter  
is published bi-monthly by the  
Department of Biomedical Sciences  
of the College of Veterinary Medicine  
at Cornell University

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 Lunch will occur on June 12th in the Hagan Room.



We are very pleased to inform you that Drs. Linda Mizer and Alex Travis were this year's recipients of the SUNY Chancellor's Award for Excellence. These awards were announced at the College Faculty meeting on Thursday, June 7th. Linda Mizer was recognized for her contributions to teaching and Alex Travis was recognized for his research efforts. Both richly deserved! Please join us in congratulating Linda and Alex.



## Welcome Vilokin (Loki)Singh!

Born April 25, 2012 @ 12:12am

6 lbs. 12 oz. & 19.5" long

to proud parents Ayesa Kaur &  
Rupinder Singh

## Congratulations to Ming Yang and family on the birth of their dear son Nathan!

(pictured here with his proud big brother)

April 21, 2012 @ 9:49pm

5 lbs. 0 oz. & 18" long

