



# Points of Interest

in Biomedical Sciences

Newsletter Date: July/August 2011

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## Quotables:

A perfect summer day is when the sun is shining, the breeze is blowing, the birds are singing, and the lawn mower is broken.

~James Dent

## GAINING NOTORIETY

Congrats to Drs. Flavio Fenton, Elizabeth Cherry, and Robert Gilmour along with the rest of their crew who have been gaining notoriety for their article:

Luther, S., F. H. Fenton, B. G. Kornreich, A. Squires, P. Bittihn, D. Hornung, M. Zabel, J. Flanders, A. Gladuli, L. Campoy, E. M. Cherry, G. Luther, G. Hasenfuss, V. I. Krinsky, A. Pumir, R. F. Gilmour, Jr. and E. Bodenschatz (2011). "Low-energy control of electrical turbulence in the heart." *Nature* 475(7355): 235-239.

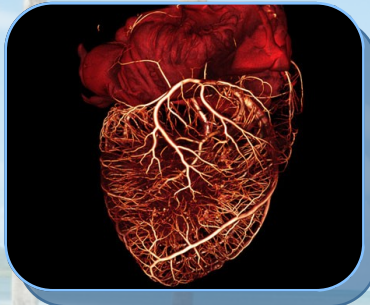
The manuscript has received reviews...

From Cornell:

- <http://www.news.cornell.edu/stories/July11/DefibrillatorMethod.html>

From Nature, Science and others:

- [http://www.nature.com/news/2011/110713/full/news.2011.414.html?s=news\\_rss](http://www.nature.com/news/2011/110713/full/news.2011.414.html?s=news_rss)
- <http://news.sciencemag.org/sciencenow/2011/07/a-less-shocking-way-to-reset-a-b.html?ref=hp>
- <http://spectrum.ieee.org/biomedical/devices/a-gentler-defibrillator-jolt>



and was the subject of a Short radio interview:

- <http://www.voanews.com/english/news/health/Several-Small-Electric-Jolts-Reset-Heart-Rhythm-in-Animals-125649203.html>

## AWARD

Dr. Robin Davisson has been awarded a competitive renewal of her NIH/NHLBI grant "Oxidant Stress in the Brain and Hypertension". The goal of the project is to functionally map the role of redox-regulated ER stress mechanisms in angiotensin-II-mediated neurogenic hypertension.

## PUBLICATIONS

- ◆ Bolcun-Filas, E., L. A. Bannister, A. Barash, K. J. Schimenti, S. A. Hartford, J. J. Eppig, M. A. Handel, L. Shen and J. C. Schimenti (2011). "A-MYB (MYBL1) transcription factor is a master regulator of male meiosis." Development **138**(15): 3319-3330.
- ◆ Cherry, E. M. and F. H. Fenton (2011). "Effects of boundaries and geometry on the spatial distribution of action potential duration in cardiac tissue." Journal of theoretical biology **285**(1): 164-176.
- ◆ Holloway, J. K., S. Mohan, G. Balmus, X. Sun, A. Modzelewski, P. L. Borst, R. Freire, R. S. Weiss and P. E. Cohen (2011). "Mammalian BTBD12 (SLX4) protects against genomic instability during mammalian spermatogenesis." PLoS genetics **7**(6): e1002094.
- ◆ Li, X. C., E. Bolcun-Filas and J. C. Schimenti (2011). "Genetic Evidence that Synaptonemal Complex Axial Elements Govern Recombination Pathway Choice in Mice." Genetics.
- ◆ Liu, K. H., M. A. Ascenzi, C. A. Bellezza, A. J. Bezuidenhout, P. J. Cote, G. Gonzalez-Aseguinolaza, D. Hannaman, A. Luxembourg, C. F. Evans, B. C. Tennant and S. Menne (2011). "Electroporation enhances immunogenicity of a DNA vaccine expressing woodchuck hepatitis virus surface antigen in woodchucks." Journal of virology **85**(10): 4853-4862.
- ◆ Luther, S., F. H. Fenton, B. G. Kornreich, A. Squires, P. Bittihn, D. Hornung, M. Zabel, J. Flanders, A. Gladuli, L. Campoy, E. M. Cherry, G. Luther, G. Hasenfuss, V. I. Krinsky, A. Pumir, R. F. Gilmour, Jr. and E. Bodenschatz (2011). "Low-energy control of electrical turbulence in the heart." Nature **475**(7355): 235-239.
- ◆ Priest, H., S. McDonough, H. Erb, J. Daddona and T. Stokol (2011). "Transferrin receptor expression in canine lymphoma." Veterinary pathology **48**(2): 466-474.
- ◆ Shui, B., Q. Wang, F. Lee, L. J. Byrnes, D. M. Chudakov, S. A. Lukyanov, H. Sondermann and M. I. Kotlikoff (2011). "Circular permutation of red fluorescent proteins." PLoS One **6**(5): e20505.
- ◆ Strong, E. R. and J. C. Schimenti (2010). "Evidence Implicating CCNB1IP1, a RING Domain-Containing Protein Required for Meiotic Crossing Over in Mice, as an E3 SUMO Ligase." Genes **1**(3): 440-451.
- ◆ Zhang, X., M. J. Gamble, S. Stadler, B. D. Cherrington, C. P. Causey, P. R. Thompson, M. S. Roberson, W. L. Kraus and S. A. Coonrod (2011). "Genome-wide analysis reveals PADI4 cooperates with Elk-1 to activate c-Fos expression in breast cancer cells." PLoS genetics **7**(6): e1002112.

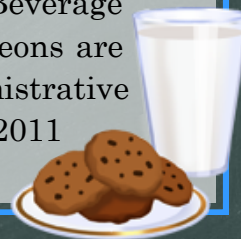
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The Points of Interest Newsletter  
is published bi-monthly by the  
Department of Biomedical Sciences  
of the College of Veterinary Medicine  
at Cornell University

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. The next Administrative Networking Lunch will be Sept. 15, 2011 from 12-1pm in the Hagan Room.



## BIOMEDICAL SCIENCES SEMINAR SERIES

**AUGUST 30**

**DR. HUAI-HU CHUANG**

Assistant Professor of Molecular Physiology  
Department of Biomedical Sciences  
College of Veterinary Medicine  
Cornell University  
Ithaca, NY  
*"Molecular Tuning of Bio-Electricity"*

**SEPTEMBER 13**

**SPECIAL SEMINAR**

**DR. ERIC C. LEDBETTER**

Robert Hovey Udall Assistant Professor of  
Ophthalmology  
Cornell University Hospital for Animals  
Department of Clinical Sciences  
Ithaca, NY

RECIPIENT OF THE 2011 PFIZER ANIMAL  
HEALTH AWARD FOR RESEARCH EXCELLENCE  
*"Feline Acanthamoeba keratitis: identification and  
preliminary characterization"*

Wine and Cheese Reception to follow outside Lecture  
Hall III

**SEPTEMBER 20**

**DR. CLIFFORD TABIN**

Professor and Chair, Department of Genetics  
Harvard Medical School  
Boston, MA  
*"The development and evolution of vertebrate  
morphology"*

**SEPTEMBER 30**

**CANCER BIOLOGY FALL SEMINAR SERIES**

CORNELL UNIVERSITY COLLEGE OF  
VETERINARY MEDICINE  
FRIDAY, 12:30PM, BOYCE THOMPSON  
AUDITORIUM

**DR. HELEN PIWNICA-WORMS**

Professor and Head, Department of Cell Biology and  
Physiology  
Washington University School of Medicine  
*"Translation of Fundamental Cell Cycle Principles  
To Targeted Cancer Therapies"*  
Sponsored by The Department of Molecular Medicine  
and The Comparative Cancer Biology Training  
Program

## WELCOME!

Welcome to Dr. Heinrich Lob, who has joined the Davisson Lab at Cornell-Ithaca as a Research Scientist. Heinrich received his PhD in 2006 from the University of Cologne, Germany. He then joined the lab of Dr. David Harrison at Emory University as a Postdoctoral Fellow. Heinrich specializes in redox biology, T cell activation and hypertension. In the Davisson Lab, Heinrich brings this expertise to work on a variety of projects dealing with the role of oxidative stress, inflammation and ER stress in hypertension.

