Volume 1, Issue 7

Points of Interest

in Biomedical Sciences

Newsletter Date October 2008

Inside this issue:

Quotables:

Are you saying that I put an abnormal brain into a seven and a half foot long, fifty-four inch wide GORILLA?

~Dr. Frederick Frankenstein (Young Frankenstein 1974)

The 7th Annual WORKSHOP ON THE PATHOLOGY OF MOUSE MODELS FOR HUMAN DISEASE...

...was held at the Cornell University College of Veterinary Medicine on September 21-27, 2007.

This workshop was organized by Drs.:

- **Alexander Nikitin**, Cornell University College of Veterinary Medicine;
- **John Sundberg**, The Jackson Laboratory;
- **Jerrold Ward**, Global Vet Pathology; and,
- **Harm HogenEsch**, Purdue University School of Veterinary Medicine.

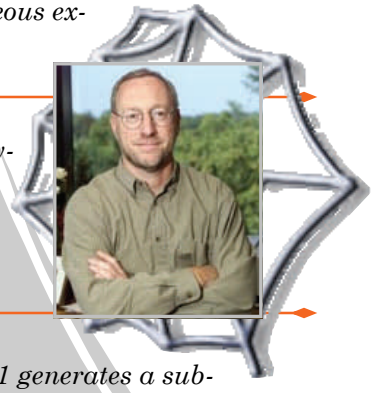
It is in part supported by the National Center for Research Resources of the National Institutes of Health and represents joint efforts by The Jackson Laboratory, Cornell and Purdue Universities to provide intensive training in mouse pathology and histopathology to participants with D.V.M. or M.D. degree.

Covered topics included nomenclature, basic mouse genetics, concepts of mouse model generation, approaches to working up mutant mice, role of pathologists at research institutions, systemic, hematopoietic, mammary, gynecologic, cutaneous, infectious and immune system pathology, embryology and cancer models.

The workshop was opened by Dean Michael Kotlikoff and Drs. Gerald Duhamel, Teresa Gunn, David Lin, Alexander Nikitin, Rachel Peters, John Schimenti and Robert Weiss were among presenting faculty. Additionally, Jinhyang Choi, David Corney, Andrea Flesken-Nikitin, Nadine Bennett, Sue Hawk, Amy Pellegrino and Jerry Schrader have provided an essential technical support for the meeting. Cornell also hosted the 2nd workshop in 2003.

Publications

- Gelzer ARM, Koller ML, Otani NO, Fox JJ, Enyeart M, Bartoli CR, Riccio ML, Moïse NS, Gilmour RF Jr, *Dynamic mechanism for initiation of ventricular fibrillation in vivo – antifibrillatory effects through modulation of restitution parameters*. Circulation 118,, 2008.
- Otani NF, Mo A, Mannava S, Fenton FH, Cherry EM, Luther S, Gilmour RF Jr, *Characterization of multiple spiral wave dynamics as a stochastic predator prey system*. Physical Review E 78,021913, 2008.
- Pariaut R, Moïse NS, Koetje B, Flanders F, Hemsley S, Farver T, Gilmour RF Jr, Gelzer ARM, Kraus M, Otani NF, *Atrial fibrillation induction during fentanyl and pentobarbital anesthesia in German shepherds with inherited arrhythmias*. American Journal of Veterinary Research 2008.
- Pariaut R, Moïse NS, Koetje B, Flanders F, Hemsley S, Farver T, Gilmour RF Jr, Gelzer ARM, Kraus M, Otani NF, *Lidocaine converts acute vagally associated atrial fibrillation to sinus rhythm in German shepherds with inherited arrhythmias*. Journal of Veterinary Internal Medicine 2008.
- Siso-Nadal F, Otani NF, Gilmour RF Jr, Fox JJ, *Boundary-induced reentry in homogeneous excitable tissue*. Physical Review E 2008.



- M. Rishniw, P.J. Fisher, R.M. Doran, S.P. Bliss, M.I. Kotlikoff, *Striated Myogenesis and Peristalsis in the Fetal Murine Esophagus Occur without Cell Migration or Interstitial Cells of Cajal*. Cells Tissues Organs, 2008.

- Holloway JK, Booth J, Edelmann W, McGowan CH, Cohen PE, *MUS81 generates a subset of MLH1-MLH3-independent crossovers in mammalian meiosis*. PLoS Genet, 2008. 4(9): p. e1000186.

Where are they now?

A couple of our Admins. will be moving!

Jacque will be moving from her current office on the 3rd floor (T3 004) to the 2nd floor office (T2 006) sometime next week and will support the faculty on both levels. Jacque's phone # (3-3059) and mail box # 16 will remain the same.

Claire, will be moving from the 2nd floor office (T2 006) to the 4th floor office (T4 018 VRT) and will be taking most of the responsibilities formerly held by Donna. Please note Claire's phone # will change to: 253-3335 and her mail box # will change to box 10. Claire's move is tentatively scheduled for Monday, Oct.6th.

Awards & Grants

The Cornell Stem Cell Program led by **Dr. Alexander Nikitin** was awarded $120,000 for NYSTEM Planning Grant for Emerging Opportunities and Consortia Development for Stem Cell Research by the New York State Department of Health. This award will allow facilitating interactions among stem cell programs of Cornell University in Ithaca, Roswell Park Cancer Institute in Buffalo, Yale Stem Cell Center of the Yale University School of Medicine in New Haven and Eli and Edyth Broad Center for Regenerative and Stem Cell Research of the University of Southern California in Los Angeles. The award will begin on November 1st, 2008 and last for one year.

Cornelia Farnum and Rebecca Williams (Biomedical Engineering) were recently funded for a BIRT (Building Interdisciplinary Research Teams) award from NIH-NIAMS for development of a ratiometric oxygen probe. The award is a supplement to their current NIH grant utilizing multiphoton microscopy and live animal imaging to analyze vascular access routes to growth plate cartilage in growing bone. Russel Schmehl, a chemist from Tulane who builds oxygen-sensitive phosphors, and Uli Wiesner (Materials Science at Cornell) are co-investigators.

Kim Holloway was awarded a second year of her fellowship from the Hereditary Diseases Foundation to study the role of MLH3 in triplet repeat expansions in the germ line.

Biomedical Sciences Seminar Series—Fall 2008

Seminar Series are held every Tuesday
in Lecture Hall III VRT (Veterinary Research Tower)
from 4:00 PM - 5:00 PM unless otherwise noted.

October 7 -
DR. LOREN J. FIELD
http://www.wellcenter.iupui.edu/field.html ~ http://medicine.iupui.edu/krannert/faculty/
Strategies for cardiac regeneration
Hosted by Dean Michael Kotlikoff, 253-3771, mik7@cornell.edu

October 13 NOTE CHANGE OF DAY - MONDAY -
DR. TIMOTHY P. O'BRIEN
http://www.vet.cornell.edu/biosci/faculty/obrien/
Genetic and genomic analysis of vertebrate development

October 14 -
DR. PENGBO ZHOU
http://www.med.cornell.edu
Ubiquitin, Nucleotide Excision Repair, and Skin Cancer
Hosted by Dr. Teresa Gunn, 253-4359, tmg25@cornell.edu

October 21 -
DR. CLARE H. McGOWAN
http://www.scripps.edu/mb/mcgowan/
The form and function of Mus81 – its role in recombination repair
Hosted by Dr. Paula Cohen, 253-4301, paula.cohen@cornell.edu

October 28 -
DR. TIM STEARNS
http://stearnslab.stanford.edu/WWD.html
Centrosomes, Cilia, and the Cell Cycle
Hosted by Dr. Cornelia Farnum, 253-3543, cef2@cornell.edu

Questions or Suggestions regarding this Newsletter?

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GRAPES Fall Events

- Oct. 14th *Oktoberfest Theme*
- Oct. 21st
- Oct. 28th *Halloween Theme*

GRAPES

http://www.vet.cornell.edu/biosci/grapes

Events

CU Police Presents:

SHOTS FIRED- When Lightening Strikes

"Shots Fired!" The odds of being involved in an "active shooter" situation are similar to being struck by lightning. But lightning does strike, and unfortunately, this contemporary, violent event is occurring in our workplaces and schools with catastrophic results. Cornell University Police will present an instructional DVD and training program designed to empower people with knowledge and strategies for recognizing, preventing and surviving an active shooter situation.

This training program covers the following topics:

- *Recognizing pre-incident indicators ("red flags") in the workplace*
- *The survival mindset, a belief that you can take control and survive*
- *Courses of action during an active shooter incident*
- *Actions to take when law enforcement or SWAT teams respond*

Wednesday October 15, 1PM-2PM, S1-017

or

Friday October 17, 11AM- 12PM, S1-007