



Cornell University



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

September 21-27, 2008 at Cornell University, Ithaca, NY

Contact: Judi Medlin, 207-288-6326 judi.medlin@jax.org

Organizers

Alexander Yu. Nikitin, MD, PhD, Cornell University College of Veterinary Medicine
John Sundberg, DVM, PhD, Dipl. ACVP, The Jackson Laboratory
Jerrold M. Ward, DVM, PhD, Dipl. ACVP, Global Vet Pathology
Harm HogenEsch, DVM., PhD, Dipl. ACVP, Purdue University School of Veterinary Medicine

Course Faculty

Cornell University

Jinhyang Choi, DVM, MS
David C. Corney, BS
Suzana S. Couto, DVM, Dipl. ACVP
Gerald E. Duhamel, DVM, PhD, Dipl. ACVP
Lora H. Ellenson, MD
Andrea Flesken-Nikitin, BS
Theresa M. Gunn, PhD
Michael I. Kotlikoff, VMD, PhD
David M. Lin, PhD
Paul Soloway, PhD
Rachel M. Peters, D.V.M., Ph.D., Dipl. ACVP
John Schimenti, PhD
Doina Tumber, PhD
Robert Weiss, PhD
Rebecca M. Williams, PhD
Warren R. Zipfel, PhD

Guest Faculty

Marcus Bosenberg, MD, PhD, University of Vermont
Cory Brayton, DVM, Dipl. ACLAM, ACVP, Johns Hopkins University, School of Medicine
Jeffrey E. Green, M.D., National Cancer Institute, NIH
Franziska B. Grieder, DVM, PhD, National Center for Research Resources, NIH
Matthew H. Kaufman, Edinburgh University, UK
Jerold E. Rehg, DVM, Dipl. ACVP, St. Jude Children's Research Hospital

PRELIMINARY SCHEDULE (subject to change)

Sunday, September 21st

REGISTRATION

Arrival at Cornell Best Western anytime after 3:00 pm
5:00-7:30 PM Registration and Reception

Monday, September 22nd

8:00 AM	Dean Kotlikoff	Welcome
8:15 AM	Gunn	Mouse genetics and strain nomenclature. Basic mouse genetics: mapping new spontaneous mutant genes, maintaining difficult strains, colony management
9:45 AM		Break
10:00 AM	Schimenti	Forward and reverse genetic technologies
11:00 AM	Sundberg	Systematic physiologic and pathologic approaches to phenotyping:

The Jackson Laboratory Shock/Ellison Aging Center Program

12:00 PM	Lunch	
1:30 PM	Soloway	Manipulating mouse genome
3:00 PM	Nikitin	Interpretation of complex phenotypes in genetically modified mice
3:45 PM	Break	
4:00 PM	Participants	Participant presentations
6:00 PM		Dinner
7:30 PM	Participants	Participant presentations, if needed

Tuesday, September 23rd

8:00 AM	Grieder	National Center for Research Resources: Funding Opportunities and the Global Approach to Knockout Mouse Resources
8:30 AM	Lin	Gene array analysis of mouse models
9:45 AM		Break
10:00 AM	Green	Breast cancer modeling and preclinical trials
11:00 AM	Sundberg	Diseases of skin and adnexa
12:00 PM		Lunch
1:30 PM		Taughannock Falls Hiking
4:00 PM	Rehg	Mouse pleomorphic soft tissue sarcomas: What are they?
4:30 PM	Ward	Introduction to pathology of hematopoietic tumors and evaluation of tumors in aging mice
5:00 PM	Rehg	Pathology of mouse lymphomas and histiocytic sarcoma
6:00 PM		Dinner
7:30 PM	Ward	Review of interesting cases brought by participants and faculty/

Wednesday, September 24th

8:00 AM	Ward	Tumor pathology
8:45 AM	Brayton	Contemporary infectious diseases of mice
10:00		Break
10:15 AM	HogenEsch	Mouse models for studying development of the immune system
11:00 AM	HogenEsch	Mouse models for allergic diseases
12:00 PM		Lunch
1:30 PM	Ward	Walking tour of campus
4:00 PM	Zipfel and Williams	Multiphoton imaging
5:00 PM	Ward	Mouse embryonic lethality and placental abnormalities
6:00 PM		Dinner on your own

Thursday, September 25th

8:00 AM	Weiss	Mouse models for studies of DNA repair
9:00 AM	Brayton/Peters/Conroy/Choi/Flesken-Nikitin	Hands on experience: (1) Necropsy wet lab. Supervised necropsies of normal and mutant laboratory mice. Brayton/Peters (2) Global digitizing of slides/Conroy and Choi (3) Laser microdissection/Flesken-Nikitin
12:00 PM		Lunch
1:30 PM	Duhamel	Mouse models of inflammatory bowel disease
2:30 PM	Ward, Brayton,	Challenges for pathologists at research institutions. Round table

Bosenberg,
Couto, Peters

with 10 min presentations followed by discussion

5:15 PM

Departure of buses to Seneca Lake

6:00 PM

Dinner at Dano's Heuriger on Seneca

Friday, September 26th

8:00 AM

Ellenson

Mouse models of endometrial cancer

9:00 AM

Tumbar

Models to study stem cell biology

10:15 AM

Break

10:30 AM

Bosenberg

Mouse models of skin cancer/melanoma

12:00 PM

Lunch

1:30 PM

Kaufman

IVF, parthenogenesis and stem cells

4:00 PM

Nikitin

Modeling cancer in the mouse

5:30 PM

Adjourn

6:00 PM

Dinner

Saturday, September 27th

9:00 AM

Kaufman

Mouse embryology

12 PM

Lunch

End of program, Departures