

**Fifth Annual Workshop on the Pathology of Mouse Models for Human Disease**  
September 11-16, 2006  
Held at Fred Hutchinson Cancer Research Center, Seattle, Washington

Workshop Organizers

**John P. Sundberg, D.V.M., Ph.D., Dipl. A.C.V.P.**  
The Jackson Laboratory, Bar Harbor, ME

**Jerrold M. Ward, D.V.M., Ph.D.,**  
National Institute of Allergy and Infectious Diseases, Frederick MD

**Alexander Yu. Nikitin, M.D., Ph.D.,**  
Cornell University, Ithaca, NY

**Harm HogenEsch, D.V.M., Ph.D.,**  
Purdue University, West Lafayette, IN

**Robert C. Hackman, M.D., FCAP**  
Fred Hutchinson Cancer Research Center / University of Washington, Seattle, WA

~ Event Schedule ~

All venues are within easy walking distance from the hotel. Maps will be provided.

**Sunday, September 10<sup>th</sup>**

5:00 – 7:00 Reception at Fred Hutchinson Cancer Research Center Towne Courtyard, which is located between the Thomas and Weintraub building.

**Monday, September 11<sup>th</sup>**

Weintraub Building, Rooms B1-072/074/076.

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|---------------|--|
| 8:00 – 8:15   | <b>Welcome to the Fred Hutchinson Cancer Research Center</b><br><i>Lee Hartwell, Ph.D., President and Director, Fred Hutchinson Cancer Research Center</i>   |
| 8:15 – 9:00   | <b>Introductions and Announcements</b><br><i>Robert C. Hackman, M.D., FCAP, Fred Hutchinson Cancer Research Center and University of Washington</i>  |
| 9:00 – 9:30   | <b>Concepts of animal models of human diseases and a pathologist's approach to phenotyping</b><br><i>John P. Sundberg, D.V.M., Ph.D., The Jackson Laboratory</i>                                     |
| 9:30 – 10:00  | <b>Coffee Break</b>  |
| 10:00 – 11:15 | <b>The Shock Center And Ellison Foundation Aging Projects for defining genetics and mechanisms of spontaneous chronic diseases</b><br><i>John P. Sundberg, D.V.M., Ph.D., The Jackson Laboratory</i> |
| 11:15 – 12:15 | <b>A reverse genetics screen for new physiology in mice</b><br><i>Samuel Aparicio, B.M., B.Ch., Ph.D., MRCPPath., British Columbia Cancer Agency and University of British Columbia, BC, Canada</i>  |

- 12:15 – 1:30            **Lunch**
- 1:30 – 2:15            **Building on mouse models of breast cancer to carry out clinical vaccine trials in humans**  
*Mary L. Disis, M.D., Fred Hutchinson Cancer Research Center and University of Washington*
- 2:15 – 3:30            **Mouse strain variations – implications for disease modeling strategy**  
*H. Denny Liggitt, D.V.M., Ph.D., University of Washington*
- 3:30 – 4:00            **Coffee Break**
- 4:00 – 5:15            **Mouse models of aging and pitfalls in the interpretation of lesions in aging mice**  
*Piper M. Treuting, D.V.M., M.S., University of Washington*
- 5:15                    **Adjourn**

**Tuesday, September 12<sup>th</sup>**

Weintraub Building, Rooms B1-072/074/076.

- 8:00 – 9:00            **Mouse genetics**  
*Xavier Montagnetelli, D.V.M., Ph.D., Institut Pasteur, Paris*
- 9:00 – 9:30            **Coffee Break**
- 9:30 – 11:00          **Mouse genetics (continued)**  
*Xavier Montagnetelli, D.V.M., Ph.D., Institut Pasteur, Paris*
- 11:00 – 12:00        **Embryologic methods**  
*Matthew Kaufman, M.D., Edinburgh University, Scotland*
- 12:00 – 1:00           **Lunch**
- 1:00 – 2:30            **Mouse embryology using the virtual embryo**  
*Matthew Kaufman, M.D., Edinburgh University, Scotland*
- 2:30 – 2:45            **Coffee Break**
- 2:45 – 3:45            **Informal consultation and case review over multiheaded scopes**
- 3:45 – 4:30            **Mouse Models of Human Cancer Consortium; National Institutes of Health resources**  
*Betty Tarnowski, Ph.D., National Institutes of Health*
- 4:30 – 5:45            **Pathology of the placenta and embryo**  
*Jerrold M. Ward, D.V.M., Ph.D., National Inst. of Allergy and Infectious Diseases*
- 5:45                    **Adjourn**
- 7:30 – 9:30            **Buffet meal and get-acquainted gathering at the Hackman's (Bus will leave from the Marriott)**

### Wednesday, September 13<sup>th</sup>

Weintraub Building, Rooms B1-072/074/076.

- 8:00 – 9:00            **Liver and GI Pathology**  
*Jerrold M. Ward, D.V.M., Ph.D., National Inst. of Allergy and Infectious Diseases*
- 9:00 – 9:30            **Modeling the initiation and progression of colon cancer from adenomas to metastatic disease**  
*William M. Grady, M.D., Fred Hutchinson Cancer Research Center*
- 9:30 – 10:00           **Break**
- 10:00 – 11:30         **Murine studies of Helicobacter and its relationship to inflammatory bowel disease and colon cancer**  
*Lillian Maggio-Price, V.M.D., Ph.D., and Piper M. Treuting, D.V.M., M.S., University of Washington*
- 11:30 – 12:00         **A pathologist's approach to grading inflammatory bowel disease models in laboratory mice for quantitative trait locus analysis**  
*John P. Sundberg, D.V.M., Ph.D., The Jackson Laboratory*
- 12:00 – 1:00           **Lunch**
- 1:00 – 2:00            **Mouse models to study lymphoid organ development**  
*Harm HogenEsch, D.V.M., Ph.D., Purdue University School of Veterinary Medicine*
- 2:00 – 2:45            **Modeling immune system disorders using phenotype driven mutagenesis**  
*Brian M. Iritani, D.V.M., Ph.D., University of Washington*
- 2:45 – 3:15            **Break**
- 3:15 – 4:15            **Pathology of reactive and neoplastic hematopoietic lesions in mice**  
*Jerrold M. Ward, D.V.M., Ph.D., National Inst. of Allergy and Infectious Diseases*
- 4:15 – 5:00            **Mouse models for atopic dermatitis**  
*Harm HogenEsch, D.V.M., Ph.D., Purdue University School of Veterinary Medicine*
- 5:00 – 5:45            **Mouse models of Hirschsprung disease and other malformations of the enteric nervous system**  
*Raj Kapur, M.D., Ph.D., Children's Hospital Regional Medical Center and University of Washington*
- 5:45                    **Adjourn**
- 7:30 – 9:30            **Intellectual snack review of interesting/puzzling cases brought by attendees and faculty (glass slides or Powerpoint files) – Alimentary snacks provided**  
*Jerrold M. Ward, D.V.M., Ph.D., National Inst. of Allergy and Infectious Diseases*

### Thursday, September 14<sup>th</sup>

Weintraub Building, Rooms B1-072/074/076.

- 8:00 – 9:15            **Melanoma oncogenesis and metasasis**  
*Marcus W. Bosenberg, M.D., Ph.D., University of Vermont*
- 9:15 – 10:15         **Challenges in the immunohistological analysis of mouse tissue and cells**

*Julie Randolph-Habecker, Ph.D., Fred Hutchinson Cancer Research Center*

10:15 – 10:45

**Break**

10:45 – 11:15

**Mouse studies of real-time tumor visualization for possible intraoperative use**

*James M. Olson, M.D., Ph.D., Fred Hutchinson Cancer Research Center*

11:15 – 12:00

**Growth factor signaling specificity in mouse development**

*Phillipe Soriano, Ph.D., D.Sc., Fred Hutchinson Cancer Research Center*

12:00 – 5:00

**Excursion to Pike Place Market, Waterfront, Downtown, Seattle Center**

*Van leaves from the Marriott at 12:30, 1:00, and 1:30pm. A return to pickup is scheduled at 4:30pm, 5:00pm, 5:30pm.*

7:00 – 10:00

**Dinner at Salty's on Alki** (transportation is provided from the Marriott)

**Friday, September 15<sup>th</sup>**

Presentations will be held in the Thomas Building, the Sze Conference Rooms, D1-080/084.

9:00 – 10:30

**Modeling ovarian and prostate cancer in the mouse**

*Alexander Yu. Nikitin, M.D., Ph.D., Cornell University College of Veterinary Medicine*

10:30 – 11:00

**Break**

11:00 – 11:45

**Imaging and data management techniques in studies of prostate carcinoma**

*Norman M. Greenberg, Ph.D., Fred Hutchinson Cancer Research Center*

11:45 – 12:45

**Lunch**

12:45 – 2:00

**Classification of proliferative pulmonary lesions of the mouse**

*Alexander Yu. Nikitin, M.D., Ph.D., Cornell University College of Veterinary Medicine*

2:00 – 2:45

**A mouse model of pancreatic adenocarcinoma which demonstrates preinvasive, invasive and metastatic stages**

*Sunil Hingorani, M.D., Ph.D., Fred Hutchinson Cancer Research Center*

2:45 – 3:00

**Break**

3:00 – 5:30

**Hands-on Electives: (choose one)**

- **Mouse Necropsy** with *Sue Knoblauch, D.V.M., Fred Hutchinson Cancer Research Center*
- **Laser Capture Dissection** with *Peggy Porter, M.D., Fred Hutchinson Cancer Research Center*

**Saturday, September 16<sup>th</sup>**

Presentations will be held in the Thomas Building, the Sze Conference Rooms, D1-080/084.

9:00 – 10:00

**The use of model systems to analyze biological complexity: Prion disease in mice**

*Leroy Hood, M.D., Ph.D., Institute for Systems Biology*

10:00 – 10:15

**Break**

10:15 – 11:15

**Mouse models of spongiform encephalopathies (prion diseases)**

*Bob Harrington, D.V.M., Ph.D., University of Washington*

11:15 – 12:15

**The Development and interpretation of multiple sclerosis models**

*Thea Brabb, D.V.M., Ph.D., and H. Denny Liggitt, D.V.M., Ph.D, University of Washington*

12:15 – 12:30

**Boxed Lunches to go / Adjourn**

# Campus Map Marriott Residence Inn/Thomas Building



Directions from Marriott to conference venues

