



**8<sup>th</sup> Annual Workshop on the Pathology of Mouse Models for Human Disease**  
**September 11-17, 2009**

For more information, please contact Erin McDevitt; [erin.mcdevitt@jax.org](mailto:erin.mcdevitt@jax.org)

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**Friday, September 11**

5:00-7:00pm      **Registration & Dinner**

**Saturday, September 12**

8:00-8:15am      **Introduction and Welcome to The Jackson Laboratory**  
John P. Sundberg, D.V.M., Ph.D., Dipl. A.C.V.P., *The Jackson Laboratory*

8:20-9:30am      **Mouse Nomenclature and Basic Mouse Genetic Approaches I**  
Xavier Montagutelli, D.V.M., Ph.D., *Institute Pasteur*

9:30-10:00am      **Coffee Break**

10:00-11:00am      **Mouse Nomenclature and Basic Mouse Genetic Approaches II**  
Xavier Montagutelli, D.V.M., Ph.D., *Institute Pasteur*

11:00-12:00pm      **National Mutant Mouse Resources: Access and Use**  
Franziska Grieder, D.V.M., Ph.D., *NCRR, NIH*

12:00-1:30pm      **Lunch**

1:30-3:00pm      **Systematic Physiologic and Pathologic Approaches to Phenotyping:  
The Jackson Laboratory Shock/Ellison Aging Center Program or how to  
find out about strain specific diseases in mice:**  
    **Introduction and overview**  
    John P. Sundberg, D.V.M., Ph.D., Dipl. A.C.V.P., *The Jackson Laboratory*  
    **Accessing strain specific diseases data**  
    Terry Mattadu, D.V.M., *The Mouse Phenome Database, The Jackson  
Laboratory*

**Accessing histopathology images of mouse diseases**

Paul N. Schofield, Ph.D., *Pathbase, University of Cambridge, Cambridge, UK*

- 3:00-3:30pm **Coffee Break**
- 3:30-5:00pm **Mouse Models for Studying Development of the Immune System**  
Harm HogenEsch, D.V.M., Ph.D., Dipl. A.C.V.P., *Purdue University, School of Veterinary Medicine*
- 5:00-6:00pm **Free Time**
- 6:00-7:00pm **Dinner**
- 7:00pm **Open discussions/participant introductions and/or short presentations**

**Sunday, September 13**

- 8:00-9:30am **Mouse Models for Allergic Diseases**  
Harm HogenEsch, D.V.M., Ph.D., Dipl. A.C.V.P., *Purdue University, School of Veterinary Medicine*
- 9:30-10:00am **Coffee Break**
- 10:00-11:00am **Interpretation of Complex Phenotypes in Genetically Modified Mice: PI/Pathologist interface**  
Alexander Yu. Nikitin, M.D., Ph.D., *Cornell University College of Veterinary Medicine*
- 11:00-12:00pm **Approaches to Modeling Human Ovarian and Prostate Cancers**  
Alexander Yu. Nikitin, M.D., Ph.D., *Cornell University College of Veterinary Medicine*
- 12:00-1:30pm **Lunch**
- 1:30-2:30pm **Mouse Models for Cancer Stem Cell Research**  
Alexander Yu. Nikitin, M.D., Ph.D., *Cornell University College of Veterinary Medicine*
- 2:30-3:00pm **Coffee Break**
- 3:00-4:00pm **Ciliopathies: Mouse Models**  
Peter Vogel, D.V.M., Ph.D., *Lexicon Pharmaceuticals*
- 4:00-5:30pm **Diseases of Teeth**  
Bjorn Rozell, D.D.S., Ph.D., D.V.M., *Karolinska Institute*

5:30-6:30pm **Free Time**

6:30-7:30pm **Dinner**

**Monday, September 14**

8:00-10:30am **Introductions to Databases at The Jackson Laboratory**  
Judith A. Blake, Ph.D., The Jackson Laboratory and  
Carol Bult, Ph.D., *The Jackson Laboratory*

10:30-11:00am **Coffee Break**

11:00-12:00am **Mouse Imaging Technology and Physiological Phenotyping Options**  
James Denegre, Ph.D., The Jackson Laboratory

12:00-1:30pm **Lunch**

1:30-3:00pm **Humanized Severe Combined Immunodeficiency Mice for  
Translational Research**  
Leonard D. Shultz, Ph.D., *The Jackson Laboratory*

3:00-3:30pm **Coffee Break**

3:30-5:00pm **Diseases of the Eye: Mouse Models**  
Richard S. Smith, M.D., D.Med.Sci., *The Jackson Laboratory*

5:00-6:00pm **Cocktail Hour**

6:00-7:30pm **Shore Dinner**

7:30pm **Slide/Research discussions and presentations by course participants**

**Tuesday, September 15**

8:00-9:30am **Workshop Rotations (*sign up required*):**

- 1. *In Vivo* Imaging and Physiological Phenotyping Technologies**  
James Denegre, Ph.D., and staff, *The Jackson Laboratory*
- 2. Confocal microscopy, Spectral Karyotyping, and other specialized microscopy services**  
James Denegre, Ph.D., and staff, *The Jackson Laboratory*
- 3. Scanning and Transmission electron microscopy, histology**  
Lesley Bechtold, M.S., and Pete Finger, M.S., *The Jackson Laboratory*

- 4. Necropsy procedures in the laboratory mouse**  
Dawnalyn Boggess, B.S. and Jim Miller, *The Jackson Laboratory*
- 5. Mouse Tumor Biology Database**  
Dale Begeley, Ph.D., *The Jackson Laboratory*
- 6. The Jackson Laboratory's Colony management System (JCMS) database for managing animal colonies in a research environment**  
Beth A. Sundberg, M.S., *The Jackson Laboratory*
- 7. The Mouse Disease Information System (MoDIS)**  
Beth A. Sundberg, M.S., *The Jackson Laboratory*
- 8. The Mouse Phenome Database**  
Terry Maddatu, D.V.M. *The Jackson Laboratory*
- 9. The Jackson Laboratory Mouse Repositories**  
Steve Rockwood, *The Jackson Laboratory*
- 10. Institutional Tour**  
John P. Sundberg, D.V.M., Ph.D., Dipl. A.C.V.P., *The Jackson Laboratory*

9:30-10:00am	<b>Coffee Break</b>
10:00-11:30am	<b>Workshops Continued</b>
11:30-1:00pm	<b>Lunch</b>
1:00-1:45pm	<b>Immunohistochemistry of the immune system organs</b> Jerold E. Rehg, D.V.M., Dipl. A.C.V.P., <i>St. Jude Children's Research Hospital</i>
1:45-3:15pm	<b>Lymphomas, leukemias, and sarcomas</b> Jerold M. Ward, D.V.M., Ph.D., Dipl. A.C.V.P., <i>Global Vet Pathology and</i> Jerold E. Rehg, D.V.M., Dipl. A.C.V.P., <i>St. Jude Children's Research Hospital</i>
3:15-3:45pm	<b>Coffee Break</b>
3:45-4:15pm	<b>Tumor Pathology</b> Jerold M. Ward, D.V.M., Ph.D., Dipl. A.C.V.P., <i>Global Vet Pathology</i>
4:15-5:15pm	<b>GI Tract Pathology</b> Jerold M. Ward, D.V.M., Ph.D., Dipl. A.C.V.P., <i>Global Vet Pathology</i>
5:15-6:30pm	<b>Free Time</b>
6:30-7:30pm	<b>Dinner</b>

### **Wednesday, September 16**

- 8:00-8:10am            **Senior investigator dedication of Dr. Wesley G. Beamer**  
John P. Sundberg, D.V.M., Ph.D., Dipl. A.C.V.P., *The Jackson Laboratory*
- 8:10-9:30am            **Genetics of Bone Density**  
Wesley G. Beamer, Ph.D., *The Jackson Laboratory, Emeritus Professor*
- 9:30-10:15am           **Inflammatory bowel disease models**  
Piper Treuting, D.V.M., M.S., Dipl. A.C.V.P., *School of Medicine, University of Washington*
- 10:15-10:45am         **Coffee Break**
- 10:45-11:45am         **Evaluation of the Placenta and Embryo**  
Jerrold M. Ward, D.V.M., Ph.D., Dipl. A.C.V.P., *Global Vet Pathology*
- 11:45-12:30pm         **Veterinary Pathology Support at Medical Research Institutions**  
Jerrold M. Ward, D.V.M., Ph.D., Dipl. A.C.V.P., *Global Vet Pathology*,  
Cory Brayton, D.V.M., Dipl. A.C.V.P. , A.C.L.A.M., *Johns Hopkins University and*  
Piper Treuting, D.V.M., M.S., Dipl. A.C.V.P., *School of Medicine, University of Washington*
- 12:30-1:30pm          **Lunch**
- 1:30-3:30pm            **Effects of Infectious Diseases of Mice on Interpretation of Experimental Results**  
Cory Brayton, D.V.M., Dipl. A.C.V.P. , A.C.L.A.M., *Johns Hopkins University*
- 3:30-5:00pm            **Diseases of the Skin and Adnexa (virtual image presentation)**  
John P. Sundberg, D.V.M., Ph.D., Dipl. A.C.V.P., *The Jackson Laboratory*
- 5:00-6:30pm            **Free Time**
- 6:30-8:00pm            **Shore Dinner**
- 8:00pm                    **Tales from the British Military Medical Museum**  
Matthew Kaufman, M.D., *Edinburgh University, Scotland*

### **Thursday, September 17**

- 8:00-9:30am            **Embryologic Methods I**  
Matthew Kaufman, M.D., *Edinburgh University, Scotland*

9:30-10:00am

**Coffee Break**

10:00-12:00pm

**Embryologic Methods II**

Matthew Kaufman, M.D., *Edinburgh University, Scotland*

12:00pm

**Lunch**

**End of Workshop**