



The Jackson
Laboratory

19th Annual Workshop on the Pathology of Mouse Models for Human Disease

October 4th – 9th, 2020

The Jackson Laboratory

For more information contact Erin.McDevitt@jax.org

Demonstrations During Breaks

Representatives of the Mouse Genome Informatics (MGI) and the Mouse Tumor Biology Database (MTB) by Dale Begley and the Mouse Disease Information System (MoDIS) by Beth Sundberg, will be onsite throughout much of the meeting to provide hands-on training, installation of software, and training in its use.

Sunday, October 4th

- 5:00 – 6:00 pm **Reception & Welcome – *Highseas Conference Center***
- 6:00 – 7:00 pm **Dinner**

Monday, October 5th

- 7:30 – 8:00 am **Breakfast**
- 8:00 – 8:30 am **Welcome & General Introductions**
John Sundberg, The Jackson Laboratory
- 8:30 – 9:45 am **Concepts on Mouse Models for Human Diseases and an Overview of
Mouse Genetic Nomenclature**
John Sundberg, The Jackson Laboratory
- 9:45 – 10:00 am **Coffee Break**
- 10:00 – 11:00 am **Mouse Genome Informatics (MGI) and Mouse Tumor Biology
Databases**
Dale Begley, The Jackson Laboratory

11:00 am – 12:00 pm	New and Emerging Genetic Engineering Technologies Bill Buaas, <i>The Jackson Laboratory</i>
12:00 – 1:30 pm	Lunch
1:30 – 2:45 pm	Pathology of the Female Reproductive System Darlene Dixon, <i>NIEHS</i>
2:45 – 3:45 pm	Mouse Models of Human Reproductive Tract Disorders Darlene Dixon, <i>NIEHS</i>
3:45 – 4:00 pm	Coffee Break
4:00 – 5:00 pm	Neuropathology Jerrold Ward, <i>Global VetPathology</i>
5:00 – 6:00 pm	Social Hour
6:00 – 7:30 pm	Dinner
7:30 – 9:00 pm	Participant Presentations Whole slide images and/or PowerPoint presentations by participants Moderated by Jerrold Ward, <i>Global VetPathology</i>

Tuesday, October 6th

7:30 – 8:30 am	Breakfast
8:30 – 10:30 am	Mouse Models of Breast (Mammary) and Prostate Cancer Alexander Borowsky, <i>University of California, Davis</i>
10:30 – 10:45 am	Coffee Break
10:45 am – 12:00 pm	Access to Genetically Engineered Mouse Resources – What You Need to Know! & What You Need to Know About NIH – A Short Overview and Guide for Trainees Franziska Grieder, <i>National Institutes of Health</i>
12:00 – 1:30 pm	Lunch & Elective Focus Group: Grants-Man-Ship and Funding Opportunities Franziska Grieder, <i>National Institutes of Health</i>

1:30 – 2:30 pm	The Mouse Lung for Translational Studies David Meyerholz, <i>University of Iowa</i>
2:30 – 3:00 pm	Publication Errors in Pathology Jerrold Ward, <i>Global VetPathology</i>
3:00 – 3:15 pm	Coffee Break
3:15 – 5:15 pm	Integrating Imaging Technologies Into the Study of Eye Diseases Jesus Ruberte, <i>Universitat Autònoma de Barcelona</i>
5:15 – 6:00 pm	Social Hour
6:00 – 7:30 pm	Dinner
7:30 – 9:30 pm	Interactive Discussion on Common Lesions Found in Different Inbred Mouse Strains Using Whole Slide Images John Sundberg, <i>The Jackson Laboratory</i>

Wednesday, October 7th

7:30 – 8:30 am	Breakfast
8:30 – 9:30 am	Lymphoid Tissues: Development and Aging Changes Harm Hogenesch, <i>Purdue University</i>
9:30 – 10:45 am	Innate Lymphoid Cells: Their Role in Inflammatory Diseases Harm Hogenesch, <i>Purdue University</i>
10:45 – 11:00 am	Coffee Break
11:00 am – 12:00 pm	The Humanized Mouse Lenny Shultz, <i>The Jackson Laboratory</i>
12:00 – 1:00 pm	Lunch
1:00 – 2:00 pm	<i>In Vivo</i> Phenotyping of the Laboratory Mouse; The Jackson Laboratory's Center for Biometric Analysis Jacqui White, <i>The Jackson Laboratory</i>
2:00 – 3:00 pm	Tissue Scoring in Investigational Studies David Meyerholz, <i>University of Iowa</i>
3:00 – 3:15 pm	Coffee Break

3:15 – 4:15 pm	Advancements in Imaging Technologies – FLIM for Improving Image-Based Pathology and High-Resolution 3D Microscopy Philipp Henrich, <i>The Jackson Laboratory</i>
4:15 – 5:15 pm	Pathology of the Liver and Mouse Models of Liver Disease Jerrold Ward, <i>Global VetPathology</i>
5:15 – 6:00 pm	Social Hour
6:00 – 7:30 pm	Dinner

Thursday, October 8th

7:30 – 8:00 am	Breakfast
8:00 – 9:00 am	Connecting Pathology to Stem Cell Research, Single Cell RNA, and 3D Imaging Alexander Nikitin, <i>Cornell University</i>
9:00 – 10:00 am	Modeling Ovarian and Endometrial Cancer Alexander Nikitin, <i>Cornell University</i>
10:00 – 10:30 am	Walk to LCC Auditorium – Coffee break served outside of auditorium
10:30 – 11:30 am	Matthew Kaufman Memorial Stem Cell Lectureship – LCC Auditorium Tudorita Tumber, <i>Cornell University</i>
11:30 am – 1:00 pm	Lunch – Roscoe’s Cafeteria
1:00 – 3:00 pm	Jackson Laboratory Tour John Sundberg and Lesley Bechtold, <i>The Jackson Laboratory</i>
3:00 – 6:00 pm	Free Time
6:00 – 7:30 pm	Dinner – Highseas Conference Center
7:30 – 10:00 pm	Participant Presentations & Case Reviews Participants can bring case materials. Double-headed microscopes, whole slide images, etc. can be used for consultation with other participants, faculty members, or for group discussions.

Friday, October 9th

7:30 – 8:30 am	Breakfast
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- 8:30 – 9:30 am **Cliopathies**
Peter Vogel, *St. Jude Children’s Research Hospital*
- 9:30 – 10:30 am **Eye Disease Models**
Peter Vogel, *St. Jude Children’s Research Hospital*
- 10:30 – 11:00 am **Coffee Break**
- 11:00 am – 12:00 pm **Complex Genetics of Susceptibility to Infections: Tuberculosis**
Gillian Beamer, *Tufts University*
- 12:00 – 1:00 pm **Lunch**

- End of Course -

Saturday, October 10th

- 9:00 am **Departure**
Participants *must* be checked out of their rooms and depart by this time