

17th Annual Workshop on the Pathology of Mouse Models for Human Disease (30 Sept - 5 Oct 2018)

Sunday, 30 September 2018

5:00-6:00 PM Reception at High Seas
6:00-7:00 PM Dinner

Monday, 1 October

8:00-8:30 AM Welcome and general introduction of all participants. *John Sundberg, The Jackson Laboratory*
8:30-9:45 AM Mouse nomenclature and basic mouse genetic approaches. *John Sundberg, The Jackson Laboratory*
9:45-10:00 AM Coffee break
10:00-11:00 AM New and emerging genetic engineering technologies. *Bill Buass, The Jackson Laboratory*
11:00-12:00 AM Phenotype to genotype to molecular pathways. Full spectrum mouse pathology. *John Sundberg, The Jackson Laboratory*
12:00-1:30 PM Lunch
1:30-2:30 PM Bone disease models. *Peter Vogel, St. Jude Children's Research Hospital*
2:30-2:45 PM Coffee break
2:45-3:45 PM Pulmonary disease models: Approaches to valid and reproducible evaluation. *Kelli Boyd, Vanderbilt University*
3:45-4:45 PM Pathology of the female reproductive system. *Darlene Dixon, National Institute of Environmental Health Science*
6:00-7:30 PM Dinner
7:30-9:00 PM Participant presentations. Whole slide images and/or power point presentations for participant introductions. *Jerrold M. Ward, Global Vet Pathology, moderator*

Tuesday, 2 October

8:30-9:30 AM Skin disease models. *John Sundberg, The Jackson Laboratory*
9:30-10:30 AM Access to genetically engineered mouse resources – What you need to know! and What you need to know about NIH - a short overview and guide for trainees. *Franziska Grieder, National Institutes of Health.*
10:30-10:45 AM Coffee break
10:45-11:45 AM Mouse models of human reproductive tract disorders. *Darlene Dixon, National Institute of Environmental Health Science*
11:45-1:30 PM Lunch (Elective focus group: Grants-man-ship and funding opportunities. An NIH representative has been invited.)
1:30-2:30 PM Modeling ovarian cancer. *Alexander Yu. Nikitin, Cornell University*
2:30-2:45 PM Coffee break
2:45-3:45 PM Comparative Pathology of the Blood-Brain Barrier in Disease. *Tiffany Lyle, Purdue University*
3:45-5:00 PM Neuropathology. *Jerrold M. Ward, Global VetPathology*
5:00 PM on Open evening (hike, eat on your own downtown, or meet on your own schedule at High Seas)

Wednesday, 3 October

8:30-9:30 AM Tissue Biomarkers: Developing, validating, and evaluating tissue biomarkers and advanced techniques in tissue biomarkers. *Kelli Boyd, Vanderbilt University and Jerry Ward, Global VetPathology*
9:30-10:30 AM Comparative anatomy and histology of mice and humans. *Piper Treuting, University of Washington, Seattle*
10:30-10:45 AM Coffee break
10:45-11:45 AM Inflammatory bowel disease models. *Piper Treuting, University of Washington, Seattle*
12:00-1:00 PM Lunch (Elective Focus Group: Veterinary pathology support at medical research institutions, *Jerrold Ward, Global Vet Path.; Piper Treuting, University of Washington; Kelli Boyd, Vanderbilt Univ.*)
1:00-2:00 PM Physiological phenotyping of the laboratory mouse. *Jacqui White, The Jackson Laboratory*
2:00-3:00 PM Ciliopathies. *Peter Vogel, St. Jude Children's Research Hospital*
3:15-3:30 PM Coffee break
3:30-4:30 PM Pathology of the liver and mouse models of liver disease. *Jerrold M. Ward, Global VetPathology*
4:30-5:15 PM Stem cells in Cancer Research. *Alex Nikitin, Cornell University.*
6:00-7:30 PM Dinner
7:30-9:00 PM Focus Group: Participant and faculty presentations, "Pathology in practice" led by *Kelli Boyd, Vanderbilt University, Piper Treuting, University of Washington, Seattle, and Jerrold M. Ward, Global Vet Pathology*

Thursday, 4 October

8:30-10:00 AM **Evaluation of mouse embryonic, placental, and perinatal defects as evidence of gene function.** *Kelli Boyd, Vanderbilt University*

10:30-11:30 AM **Matthew Kaufman Memorial Stem Cell Lectureship:** *Merv Yoder, Indiana University School of Medicine*

11:45-12:30 PM **Lunch at the cafeteria**

1:00-3:00 PM **Tours of The Jackson Laboratory.** *John Sundberg and Lesley Bechtold, The Jackson Laboratory*

3:00-6:00 PM **Hikes in Acadia National Park**

6:00-7:00 PM **Lobster dinner at High Seas**

7:30-10:00 PM **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 in group discussions.

Friday, 5 October

8:30-9:30 AM **Lymphoid tissues: development, and aging changes.** *Harm Hogenesch, Purdue University*

9:30-9:45 AM **Coffee break**

9:45-10:45 AM **Innate lymphoid cells: Their role in inflammatory diseases.** *Harm Hogenesch, Purdue University*

10:45-11:45 AM **Computational analyses of strain specific background diseases. Significance to research and underlying complex genetic basis of disease.** *Paul Schofield, University of Cambridge*

12:00-1:00 PM **Lunch**

2:00-5:00 PM **Depart/Hikes in Acadia National Park.**

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