



18th Annual Workshop on the Pathology of Mouse Models for Human Disease

September 29th – October 4th, 2019

Event Schedule

All sessions are at the Highseas Conference Center

During breaks, representatives of Mouse Genome Informatics (MGI) and Mouse Tumor Biology (MTB), Dale Begley, and the Mouse Disease Information System (MoDIS), Beth Sundberg, will be on site to provide hands on training, installation of software and training in its use.

Sunday, September 29th

- 3:00 pm Highseas Check-In and
- 5:00 pm Social Hour
- 6:00 pm Dinner

Monday, September 30th

- 7:30 am Breakfast
- 8:00 **Welcome & General Introduction of All Participants**
John Sundberg, DVM, Ph.D., DACVP, The Jackson Laboratory
- 8:30 am **Mouse Genetic Nomenclature and Basic Genetic Approaches**
John Sundberg, DVM, Ph.D., DACVP, The Jackson Laboratory
- 9:45 am Coffee Break
- 10:00 am **Mouse Genome Informatics (MGI) and Mouse Tumor Biology Databases**
Dale Begley, Ph.D., The Jackson Laboratory
- 11:00 am **New and Emerging Genetic Engineering Technologies**
Bill Buaas, Ph.D., The Jackson Laboratory

- 12:00 pm Lunch with Elective Focus Group **Fun with Figures** Piper Treuting, University of Washington and Kelli Boyd, Vanderbilt University
- 1:30 pm **Pathology of the Liver and Mouse Models of Liver Disease**
Jerrold M. Ward, DVM, Ph.D., DACVP, Global Vet Pathology
- 2:30 pm **Pathology of the Female Reproductive System**
Darlene Dixon, DVM, Ph.D., DACVP, NIEHS
- 3:45 pm Coffee Break
- 4:15 pm **Neuropathology**
Jerrold M. Ward, DVM, Ph.D., DACVP, Global Vet Pathology
- 5:15 pm Break
- 6:00 pm Dinner
- 7:30 pm **Participant Presentations**
Whole slide images and/or PowerPoint presentations by participants
Moderated by Jerrold M. Ward, DVM, Ph.D., DACVP, Global Vet Pathology

Tuesday, October 1st

- 7:30 am Breakfast
- 8:30 am **Connecting Pathology to Stem Cell Research, Single Cell RNA, and 3D Imaging**
Alexander Yu Nikitin, MD, Ph.D., Cornell University
- 9:30 am **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, DVM, Ph.D., NIH
- 10:30 am Coffee Break
- 10:45 am **Mouse Models of Human Reproductive Tract Disorders**
Darlene Dixon, DVM, Ph.D., DACVP, NIEHS
- 12:00 pm Lunch
with Elective Focus Group **Grants-Man-Ship and Funding Opportunities**
Franziska Grieder, NIH
- 1:30 pm **Active Learning Afternoon: How to ARRIVE at Good Science**
Kelli Boyd, DVM, Ph.D., DACVP, Vanderbilt University
Piper Treuting, DVM, M.S., DACVP, University of Washington
- 5:00 pm Break
- 6:00 pm Dinner
- Open evening or meet individually with speakers or work on presentation*
Double-headed microscopes will be available for collaboration and consultation

Wednesday, October 2nd

- 7:30 am Breakfast
- 8:30 am **Lymphoid Tissues: Development and Aging Changes**
Harm Hogenesch, DVM, Ph.D., DACVP, Purdue University
- 9:30 am Break
- 9:45 am **Innate Lymphoid Cells: Their Role in Inflammatory Diseases**
Harm Hogenesch, DVM, Ph.D., DACVP, Purdue University
- 10:45 am Coffee Break
- 11:00 am **Quantitative Trait Locus (QTL) Analysis: How to Apply Lesion Grading to Identify the Underlying Genetics**
Vivek Philip, Ph.D., The Jackson Laboratory
- 12:00 pm Lunch
with Elective Focus Group Evaluating Embryonic and Perinatal Lethality with Kelli Boyd, DVM, Ph.D., DACVP, Vanderbilt University and DVM, Ph.D., DACVP, Global Vet Pathology
- 1:00 pm **In Vivo Phenotyping of the Laboratory Mouse: The Jackson Laboratory's Center for Biometric Analysis**
Jacqui White, Ph.D., The Jackson Laboratory
- 2:00 pm **Modeling Ovarian and Endometrial Cancer**
Alexander Yu Nikitin, MD, Ph.D., Cornell University
- 3:00pm Coffee Break
- 3:15 pm **Active Learning Afternoon: Project Presentations**
Kelli Boyd, DVM, Ph.D., DACVP, Vanderbilt University
Piper Treuting, DVM, M.S., DACVP, University of Washington
- 5:30 pm Break
- 6:00 pm Lobster Dinner
- 7:30 pm *Open evening or meet individually with speakers or work on presentation*
Double-headed microscopes will be available for collaboration and consultation

Thursday, October 3rd

- 7:30 am Breakfast
- 8:00 am **Modeling Ovarian and Endometrial Cancer**
Peter Vogel, DVM, Ph.D., St. Jude Children's Research Hospital
- 9:00 am **Cliopathies**
Peter Vogel, DVM, Ph.D., St. Jude Children's Research Hospital

- 10:00 am Coffee Break
- 10:30 am **Matthew Kaufman Memorial Stem Cell Lectureship:**
Ken Paigen, Ph.D., The Jackson Laboratory
- 12:00 pm Lunch
with Elective Focus Group Tissue Biomarkers: Developing, Validating, and Evaluating Tissue Biomarkers and Advanced Techniques in Tissue Biomarkers (Multiplexing) with Kelli Boyd, DVM, Ph.D., DACVP, Vanderbilt University and DVM, Ph.D., DACVP, Global Vet Pathology
- 1:30 pm Walk to The Jackson Laboratory **shuttles provided if needed*
- 2:00 pm **Tours of The Jackson Laboratory**
John Sundberg, DVM, Ph.D., DACVP, The Jackson Laboratory
Lesley Bechtold, MS, MBA, The Jackson Laboratory
- 4:00 pm Walk to Highseas **shuttles provided if needed*
- 4:30 pm Free Time *or* Meet Individually with Speakers
- 6:00 pm Dinner at Highseas
- 7:30 pm **Participant Presentation/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, October 4th

- 7:30 am Breakfast
- 8:30 am **Phenotyping Neruomuscular Diseases in Mice**
Peter Vogel, DVM, Ph.D., St. Jude Children's Research Hospital
- 9:30 am **Skin Structure and Function**
John Sundberg, DVM, Ph.D., DACVP, The Jackson Laboratory
- 10:30 am Break
- 10:45 am **Skin Disease Mouse Models**
John Sundberg, DVM, Ph.D., DACVP, The Jackson Laboratory
- 12:00 pm Lunch & End of Course

Saturday, October 5th

- 8:00 am Breakfast
- 9:00 am Highseas Check-Out