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

3:00 pm  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.

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**Friday, October 4th**

7:30 am Breakfast

8:30 am **Phenotyping Neuromuscular 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

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**Saturday, October 5th**

8:00 am Breakfast

9:00 am Highseas Check-Out