19th Annual Virtual Workshop on the Pathology of Mouse Models for Human Disease
27 Sept-1 Oct 2021

Lectures will be made available on-demand in advance of the scheduled course dates. Each day of the course will include 2 hours of live virtual sessions including Q&A with speakers, Case Presentations, Panel Discussions and Featured Lectures. Live sessions will be updated as confirmed.

On-Demand Content (Made Available September 1)

Welcome and general introduction to this virtual workshop on mouse pathology. John Sundberg, The Jackson Laboratory and Department of Dermatology, Vanderbilt University Medical Center

Matthew Kaufman Memorial Stem Cell Lectureship: Skin epithelial stem cell dynamics in adult tissue homeostasis and injury repair. Tudorita Tumbar, Cornell University

General Information and Resources
2. Mouse Genome Informatics (MGI) and Mouse Tumor Biology Databases. Dale Begley, The Jackson Laboratory
3. 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, NIH

Methodologies
1. The Humanized Mouse. Leonard D. Shultz, The Jackson Laboratory
2. In vivo Phenotyping of the Laboratory Mouse; The Jackson Laboratory’s Center for Biometric Analysis. Jacqui White, The Jackson Laboratory
3. Tissue scoring in investigational studies. David Meyerholz, Univ. Iowa
6. Pathology informatics; excavating your data. Paul Schofield, University of Cambridge and The Jackson Laboratory (adjunct Professor)

Pathology of the mouse by organ system
1. Pathology of the Female Reproductive System. Darlene Dixon, NIEHS
2. Mouse Models of Human Reproductive Tract Disorders. Darlene Dixon, NIEHS
5. **Neuromuscular Disease Phenotyping and Models.** Peter Vogel, St. Jude Children’s Research Hospital

6. **Mouse Models of Breast (Mammary) and Prostate cancer.** Alexander Borowsky, UC Davis

7. **The Mouse Lung for Translational Studies.** David Meyerholz, Univ. Iowa

8. **Utilizing Mouse Models of SARS CoV2.** Dave Meyerholz, Univ. Iowa

9. **Why We Need More Than One Mouse Model for Covid-19 and How We Will Achieve It.** Xavier Montagutelli, Institut Pasteur

10. **Biorepository for Mouse Models for SARS CoV2 research.** Cat Lutz, The Jackson Laboratory

11. **Integrating Imaging Technologies into the Study of Eye Diseases.** Jesus Ruberte, Universitat Autonoma de Barcelona

12. **Eye Disease Models.** Peter Vogel, St. Jude Children’s Research Hospital

13. **Pathology of the Liver and Mouse Models of Liver Disease.** Jerrold M. Ward, Global VetPathology

14. **Lymphoid Tissues: Development and Aging Changes.** Harm Hogenesch, Purdue Univ.

15. **Recognition of Aberrant Immune Cell Proliferations in Immunocompromised Mice Receiving Human Cells.** Laura Janke, St. Jude Children’s Research Hospital

16. **Innate Lymphoid Cells: Their Role in Inflammatory Diseases.** Harm Hogenesch, Purdue Univ.

17. **Ciliopathies.** Peter Vogel, St. Jude Children’s Research Hospital

18. **Complex Genetics of Susceptibility to Infections: Tuberculosis.** Gillian Beamer, Tufts Univ.

19. **Skin, Hair, and Nail Disease Models.** John P. Sundberg, The Jackson Laboratory and Dept. Dermatology, Vanderbilt University Medical Center

---

**Live online options**

**Meet with the pathologists:** We will have one day set up for participants to interact with the pathologists and faculty that are available to ask questions and discuss our programs and pathology practice.

**Case presentations:** Digital images can be uploaded to the JAX meeting website for all participants interested to look at in advance and then we set up a time to discuss the cases. This approach would provide everyone the opportunity to evaluate the cases in advance and look up any documentation that might be useful for the discussion.