



This is a working draft and is subject to change.

Workshop on Colony Management: Principles and Practices
Webcasting Schedule

April 16-18, 2018

Online Modules: Registered participants will be provided with access to online modules approximately two weeks prior to the start of the workshop. Participants are strongly encouraged to view this content in advance of the workshop as it covers pre-requisite material and topics not covered during the in-person course.

- **Mouse Strains and Resources**
- **Basic Genetics**
- **Mouse Strain Nomenclature**
- **Reproductive Biology of the Laboratory Mouse**
- **Basics of Cre-lox**

Monday, April 16, 2018

- | | |
|------|---|
| 8:30 | Welcome, Introductions, About JAX & Canvas
Kelly LaRue, Ph.D., Genomics Education Specialist, The Jackson Laboratory |
| 9:00 | Mouse Genetics
Marge Strobel, Ph.D., Scientific Director, The Jackson Laboratory |
| 9:30 | Colony Set-up and Breeding Strategies
Marge Strobel, Ph.D., Scientific Director, The Jackson Laboratory |
| 1:00 | Genetic Background Effects on Phenotype
Greg Cox, Ph.D., Associate Professor, The Jackson Laboratory |
| 2:00 | Genetic Quality Control
Cat Lutz, Ph.D. MBA, Senior Director of Genetic Resource Sciences, The Jackson Laboratory |
| 4:00 | Hands-On Workshop: Mouse Genome Informatics and Other Resources
David Shaw, M.S., MGI User Support Specialist, The Jackson Laboratory |

Tuesday, April 17, 2018

- 8:00 **Practical Guidelines for Maintaining Mouse Health**
Bonnie Lyons, DVM, Associate Veterinarian, The Jackson Laboratory
- 10:00 **Maintaining Severely Immune Compromised Mice**
Bonnie Lyons, DVM, Associate Veterinarian, The Jackson Laboratory
- 11:00 **Eliminating Infectious Contaminants**
Bonnie Lyons, DVM, Associate Veterinarian, The Jackson Laboratory
- 1:00 **Cryopreservation: A Cool Approach to Colony Management**
Robert Taft, Ph.D., Senior Product Manager, The Jackson Laboratory
- 2:00 **Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue,
and Rapidly Expand Colonies**
Robert Taft, Ph.D., Senior Product Manager, The Jackson Laboratory
- 3:30 **Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice**
Peter Kelmenson, BA, Technical Information Scientist, The Jackson Laboratory
- 4:30 **Effects of Housing Density on the Physiological Well-being of Research Mice**
Karen Svenson, Ph.D., Senior Scientific Program Manager, The Jackson
Laboratory

Wednesday, April 18, 2018

- 8:00 **Nutritional Aspects of Maintaining Animal Health and Phenotype**
Melanie Hoar, Ph.D., Nutritionist, LabDiet
- 9:00 **The Microbiome**
James Fahey, Ph.D., DVM, DACVM, Associate Director of Comparative
Medicine and Quality, The Jackson Laboratory
- 10:00 **Using Database Systems for Research Animal Management and Working With
Mobile Devices in Animal Rooms**
Charles Donnelly, B.S., CEO of RockStep Solutions Inc.
Abigail Ames, B.A., Director of Technology, RockStep Solutions Inc.
- 12:00 End