



This is a working draft and is subject to change.

Workshop on Colony Management: Principles and Practices

April 16-18, 2018

All sessions will be held in the Highseas Conference Center unless stated otherwise.

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**

Sunday, April 15, 2018

3:00 pm	Registration
5:00	Social Hour
6:00	Dinner

Monday, April 16, 2018

7:00 am	Breakfast
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

- 12:00 pm Lunch
- 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
- 3:30 Break
- 4:00 **Hands-On Workshop: Mouse Genome Informatics and Other Resources**
David Shaw, M.S., MGI User Support Specialist, The Jackson Laboratory
- 6:00 Dinner

Tuesday, April 17, 2018

- 7:00 am Breakfast
- 8:00 **Practical Guidelines for Maintaining Mouse Health**
Bonnie Lyons, DVM, Associate Veterinarian, The Jackson Laboratory
- 9:30 Break
- 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
- 12:00 pm Lunch
- 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
- 3:00 Break
- 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
- 6:00 Dinner

7:00 **Discussion: Best practices for discussing your job in animal research**
Linda Waterman, DVM, DACLAM, Senior Director of Comparative Medicine, The Jackson Laboratory and
Kristin Blanchette, MS, MBA, RLATg, CPIA, Senior Manager of Regulatory Affairs, The Jackson Laboratory

Wednesday, April 18, 2018

7:00 am Breakfast

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

9:45 Group 1: Shuttle to GRB Training Laboratory (meet in Highseas Lobby)
Group 2: Break

10:00 **Group 1 GRB Training Lab: Hands-On Biomethods Workshop (handling, restraint, intraperitoneal injection & subcutaneous injection)** *For additional hands-on training, register for our COMPREHENSIVE WORKSHOP ON MOUSE BIOMETHODS (www.jax.org/biomethods).*
Kristin Cough, B.S., Animal Use Trainer, The Jackson Laboratory

Group 2 Highseas: 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.

12:15 pm Group 1: Shuttle back to Highseas

Lunch at Highseas

1:15 Group 2: Shuttle to GRB Training Laboratory (meet in Highseas Lobby)
Group 1: Break

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3:45 Group 2: Shuttle back *to Highseas*

6:00 Dinner

7:00 **Roundtables: Breeding Strategies, Colony Management Technologies, and Animal Care and Use**

Marge Strobel, Ph.D., Scientific Director, The Jackson Laboratory

Charles Donnelly, B.S., CEO of RockStep Solutions Inc.

Kristin Blanchette, MS, MBA, RLATg, CPIA, Senior Manager of Regulatory Affairs, The Jackson Laboratory

Thursday, April 19, 2018

7:00 Breakfast & Departures (Room check-out is 9:00 A.M.)