



Workshop on Colony Management: Principles and Practices

April 12-16, 2016

All lectures held in the Highseas 3rd Floor Conference room unless stated otherwise.

Online Modules: Registered participants will be given access to online modules approximately one month prior to the start of the workshop. Participants are encouraged to view this content in advance of the workshop.

- **Mammalian Genetics Review**
- **Mouse Strain Nomenclature**
- **Reproductive Biology of the Laboratory Mouse**
- **Basics of Cre-lox**

Tuesday, April 12, 2016

6:00pm Arrivals and dinner buffet

Wednesday, April 13, 2016

7:00–8:30am Breakfast

8:00–8:15am **Welcome and Introductions**
Charles Wray, Ph.D., The Jackson Laboratory

8:15–9:15am **From Mendel to Fancy Mice: A Mouse Genetics Primer**
Charles Wray, Ph.D., The Jackson Laboratory

9:15–9:30am Break

9:30–11:00am **Colony Set-up and Breeding Strategies**
Marge Strobel, Ph.D., The Jackson Laboratory

11:00am– 12:00pm **Genetic Quality Control**
Melissa Osborne, M.S., The Jackson Laboratory

12:00–1:00pm Lunch

1:00-2:00pm	Genetic Background Effects on Phenotype Greg Cox, Ph.D., The Jackson Laboratory
2:00-2:15pm	Break
2:15-3:15pm	Cryopreservation: A Cool Approach to Colony Management Jennifer Corrigan, M.S., The Jackson Laboratory
3:15-4:30pm	Hands-On Workshop: Web-Based Resources for Mouse Researchers David Shaw, M.S., The Jackson Laboratory
5:00-6:00pm	Happy Hour with Stoelting (Location: Highseas lobby/living room) Richard Mills, Ph.D., Stoelting
6:00pm	Dinner

Thursday, April 14, 2016

7:00-8:30am	Breakfast
8:30-10:15am	Practical Guidelines for Maintaining Mouse Health Cynthia Alvarado, D.V.M., M.S., D.A.C.L.A.M.
10:15- 10:30 am	Break
10:30-11:30am	Maintaining Severely Immune Compromised Mice Cynthia Alvarado, D.V.M., M.S., D.A.C.L.A.M.
11:30am-12:30pm	Eliminating Infectious Contaminants Cynthia Alvarado, D.V.M., M.S., D.A.C.L.A.M.
12:30-1:30pm	Lunch
1:30 -2:30pm	Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies Lindsay Ware, M.S., The Jackson Laboratory
2:30-2:45pm	Break
2:45-3:45pm	Technologies & Repositories: PDX, CRISPR-Cas, COMP, T1D, & JAX Mice Kathy Snow, Ph.D., The Jackson Laboratory
3:45-4:45pm	Nutritional Aspects of Maintaining Animal Health and Phenotype Laura Tracey, M.S., Purina Mills, Inc.
4:45-5:00pm	Break
5:00-6:00pm	CRISPR-Cas Happy Hour (Location: Highseas lobby/living room) Rob Taft, Ph.D., The Jackson Laboratory Bill Buaas, Ph.D., The Jackson Laboratory

6:00pm Dinner

Friday, April 15, 2016

8:00-9:00am Breakfast

9:15-9:30am *Transportation Group 1 to GRB Training Laboratory (meet in Highseas Lobby)*

9:30-11:30am **Group 1: Hands-On Workshop Group 1: Biomethods (handling, restraint, gender determination, intraperitoneal injection, subcutaneous injection, buccal swab, ear notch, euthanasia, sub-mandibular bleed, ear tag and tail tip)**
Kristin Cough, B.S., The Jackson Laboratory

9:30-11:30am **Group 2: Using Database Systems for Research Animal Management and Working With Mobile Devices in Animal Rooms**
Charles Donnelly, B.S., RockStep Solutions Inc.
Abigail Ames, B.A., RockStep Solutions Inc.

11:30am *Transportation of Group 1 back to Highseas*

12:00-1:00pm Lunch at Highseas

1:15pm *Transportation Group 2 to GRB Training Laboratory (meet in Highseas Lobby)*

1:30-3:30pm **Group 2: Hands-On Workshop Group 2: Biomethods (handling, restraint, gender determination, intraperitoneal injection, subcutaneous injection, buccal swab, ear notch, euthanasia, sub-mandibular bleed, ear tag and tail tip)**
Kristin Cough, B.S., The Jackson Laboratory

1:30-3:30pm **Group 1: Using Database Systems for Research Animal Management and Working With Mobile Devices in Animal Rooms**
Charles Donnelly, B.S., RockStep Solutions Inc.
Abigail Ames, B.A., RockStep Solutions Inc.

3:30pm *Transportation of Group 2 back to Highseas*

6:00pm Dinner

Saturday, April 16, 2016

7:00-9:00am Breakfast & Departures