



## Workshop on Colony Management and Biomethods

April 19-25, 2020

**Schedule is subject to change.**

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*All sessions will be held in the Highseas 3<sup>rd</sup> Floor Conference Center unless stated otherwise.*

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**Online Modules:** Registered participants will have access to online modules that are intended to complement and enhance the in-person workshop experience. This optional information will be made available to registered participants a few weeks prior to the start of the course.

### **Sunday, April 19<sup>th</sup>, 2020**

3:00 pm      **Highseas Opens for Participant Arrivals**  
6:00           Dinner (Highseas dining room)

### **Monday, April 20<sup>th</sup>, 2020**

7:00 am      Breakfast (Highseas dining room)  
8:00           **Group A: Meet in Highseas Lobby: Transportation to GRB Training Laboratory**  
                 **Group B: Free day**  
8:15           **Welcome & Introductions**  
                 Jennifer Corrigan, M.S., Kristin Cough, B.S., LATg, Ashley Madore, B.S., Angela Begin,  
                 B.S., MBA, RLATg and Travis Burpee, The Jackson Laboratory  
8:45           **Mouse handling, restraint and oral gavage**  
10:15          **Injections: IP, subcutaneous and tail vein**  
12:15pm      Lunch (Roscoe's)  
1:15           **Blood collection: submandibular, retro orbital, tail tip and cardiac puncture**  
3:00           **Primary and secondary euthanasia: CO<sub>2</sub>, cervical dislocation, decapitation, thoracic  
                 puncture, perfusion**  
5:00           Transportation to Highseas  
6:00           Dinner (Highseas dining room)

**Tuesday, April 21<sup>st</sup>, 2020**

- 7:00 am Breakfast (Highseas dining room)
- 8:00 **Welcome, Introductions & Canvas**  
Jennifer Corrigan, M.S., The Jackson Laboratory
- 8:15 **Mouse Genetics and Strain Nomenclature**  
Alicia Valenzuela, M.S., The Jackson Laboratory
- 9:30 **Break**
- 10:00 **Colony Set-up, Breeding Strategies and Q&A**  
Jason Beckwith, M.S., The Jackson Laboratory
- 12:00 pm Lunch (Highseas dining room)
- 1:00 **Genetic Background Effects on Phenotype**  
Greg Cox, Ph.D., The Jackson Laboratory
- 2:00 **Genetic Quality Control**  
Jenny Morgenweck, Ph.D., The Jackson Laboratory
- 3:00 **Break**
- 3:15 **Hands-On Workshop: Mouse Genome Informatics and Other Resources**  
David Shaw, M.S., The Jackson Laboratory
- 5:00 **End**
- 6:00 **Lobster Dinner (Highseas dining room)**

**Wednesday, April 22<sup>nd</sup>, 2020**

- 7:00 am Breakfast (Highseas dining room)
- 8:00 **Practical Guidelines for Maintaining Mouse Health**  
Bonnie Lyons, D.V.M., The Jackson Laboratory
- 9:30 **Break**
- 10:00 **Maintaining Severely Immune Compromised Mice**  
Bonnie Lyons, D.V.M., The Jackson Laboratory
- 11:00 **Eliminating Infectious Contaminants**  
Bonnie Lyons, D.V.M., The Jackson Laboratory
- 12:00 pm Lunch (Highseas dining room)
- 1:00 **Cryopreservation: A Cool Approach to Colony Management**  
Rob Taft, M.S., The Jackson Laboratory
- 1:45 **Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies**  
Rob Taft, M.S., The Jackson Laboratory
- 2:30 **Break**

- 3:00           **The Microbiome**  
James Fahey, Ph.D., DVM, DACVM, The Jackson Laboratory
- 4:00           **Nutritional Aspects of Maintaining Animal Health and Phenotype**  
Melanie Hoar, Ph.D., PMI Nutrition International
- 5:00           End
- 6:00           Dinner (Highseas dining room)

**Thursday, April 23<sup>rd</sup>, 2020**

- 7:00 am       Breakfast (Highseas dining room)
- 8:00           **Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice**  
Peter Kelmenson, BA, The Jackson Laboratory
- 9:00           **Tools for Analyzing Colony Data**  
Vivek Philip, Ph.D., The Jackson Laboratory
- 10:00         Break
- 10:30         **Behavioral Phenotyping Using Computer Vision Systems**  
Vivek Kumar, Ph.D., The Jackson Laboratory
- 11:30         Lunch
- 12:30         **Effects of Housing Density on the Physiological Well-being of Research Mice**  
Karen Svenson, Ph.D., Senior Scientific Program Manager, The Jackson Laboratory
- 1:30           **Animal Care and Use Committees**  
Brenda Kick, D.V.M., The Jackson Laboratory
- 2:30           **Using Database Systems for Colony and Data Management**  
Abigail Ames, B.A., The Jackson Laboratory and Carrie LeDuc, B.S., Transnetyx
- 4:30           End
- 6:00           Dinner (Highseas dining room)

**Friday, April 24<sup>th</sup>, 2020**

- 7:00 am       Breakfast (Highseas dining room)
- 8:00           **Group B: Meet in Highseas Lobby: Transportation to GRB Training Laboratory**  
**Group A: Free day**
- 8:15           **Welcome & Introductions**  
Jennifer Corrigan, M.S., Kristin Cough, B.S., LATg, Ashley Madore, B.S., Angela Begin, B.S., MBA, RLatg and Travis Burpee, The Jackson Laboratory
- 8:45           **Mouse handling, restraint and oral gavage**
- 10:15         **Injections: IP, subcutaneous and tail vein**
- 12:15         Lunch (Roscoe's)
- 1:15           **Blood collection: submandibular, retro orbital, tail tip and cardiac puncture**

3:00            **Primary and secondary euthanasia: CO<sub>2</sub>, cervical dislocation, decapitation, thoracic puncture, perfusion**

5:00            Transportation to Highseas

**Saturday, April 25<sup>th</sup>, 2020**

7:00 am        Breakfast (Highseas dining room)

9:00            Room check-out (Participants may occupy the 1<sup>st</sup> floor until noon.)

**Additional Online Content:** Registered participants will have access to online content for 3 months following the workshop.