

## Workshop on Colony Management and Biometrics

November 7-12, 2021

**Schedule is subject to change.**

*All sessions will be held in the Highseas 3<sup>rd</sup> floor classroom unless stated otherwise.*

### Sunday, November 7<sup>th</sup>, 2021

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- 4:00 pm Highseas opens for participant arrivals and registration  
5:00 pm Welcome reception (Highseas 1<sup>st</sup> floor)  
6:00 pm Dinner (Highseas dining room)

### Monday, November 8<sup>th</sup>, 2021

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- 7:00 am Breakfast (Highseas dining room)  
8:00 am Meet in Highseas Lobby: Transportation to GRB Training Lab (shuttled provided)  
8:15 am **Welcome & Introductions** (GRB Training Laboratory)  
Leanne Miceli, A.S., Kristin Cough, B.S., LATg, Ben Carter, Travis Burpee and Dashara Jackson, B.S., The Jackson Laboratory  
8:45 am **Mouse handling, restraint and oral gavage**  
10:15 am **Injections: IP, subcutaneous and tail vein**  
12:15 pm Lunch (location TBA)  
1:15 pm **Blood collection: submental, submandibular, retro orbital, tail tip and cardiac puncture**  
3:00 pm **Primary and secondary euthanasia: CO<sub>2</sub>, cervical dislocation, decapitation, thoracic puncture, perfusion**  
5:00 pm Transportation to Highseas (shuttle provided)  
6:00 pm Dinner (Highseas dining room)

### Tuesday, November 9<sup>th</sup>, 2021

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- 7:00 am Breakfast (Highseas dining room)  
8:00 am **Welcome**  
Jennifer Corrigan, M.S., The Jackson Laboratory  
8:15 am **Mouse Genetics and Strain Nomenclature**  
Kevin Lominac, Ph.D., The Jackson Laboratory

9:30 am Break  
10:00 am **Colony Set-up and Breeding Strategies**  
Jason Beckwith, M.S., The Jackson Laboratory  
12:00 pm Lunch (Highseas dining room)  
1:00 pm **Genetic Background Effects on Phenotype**  
Greg Cox, Ph.D., The Jackson Laboratory  
2:00 pm **Genetic Quality Control**  
Steven Ciciotte, M.S., The Jackson Laboratory  
3:00 pm Break  
3:15 pm **Mouse Genome Informatics and Other Resources**  
David Shaw, M.S., The Jackson Laboratory  
5:00 pm Free period  
6:00 pm Dinner (Highseas dining room)

### **Wednesday, November 10<sup>th</sup>, 2021**

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7:00 am Breakfast (Highseas dining room)  
8:00 am **Practical Guidelines for Maintaining Mouse Health**  
Amine Alioua, Ph.D., The Jackson Laboratory  
9:30 am Break  
10:00 am **Maintaining Severely Immune Compromised Mice**  
Amine Alioua, Ph.D., The Jackson Laboratory  
11:00 am **Eliminating Infectious Contaminants**  
Amine Alioua, Ph.D., The Jackson Laboratory  
12:00 pm Lunch (Highseas dining room)  
1:00 pm **Cryopreservation: A Cool Approach to Colony Management**  
Rob Taft, Ph.D., The Jackson Laboratory  
1:45 pm **Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies**  
Rob Taft, Ph.D., The Jackson Laboratory  
2:30 pm Break  
3:00 pm **The Microbiome**  
Karen Svenson, Ph.D., The Jackson Laboratory  
4:00 pm **Nutritional Aspects of Maintaining Animal Health and Phenotype**  
Melanie Hoar, Ph.D., PMI Nutrition International  
5:00 pm Free period  
6:00 pm Dinner (Highseas dining room)

## Thursday, November 11<sup>th</sup>, 2021

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- 7:00 am Breakfast (Highseas dining room)
- 8:00 am **Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice**  
Peter Kelmenson, BA, The Jackson Laboratory
- 9:00 am **Tools for Analyzing Colony Data**  
Vivek Philip, Ph.D., The Jackson Laboratory
- 10:00 am Break
- 10:30 am **Behavioral Phenotyping Using Computer Vision Systems**  
Vivek Kumar, The Jackson Laboratory
- 11:30 am Lunch
- 12:30 pm **Breeding Efficiency Using Electronic Tracking**  
Carrie LeDuc, B.S., TransnetYX
- 1:30 pm Break
- 1:45 pm **Using Database Systems for Colony and Data Management**  
Charles Donnelly, B.S., and Julie Morrison, B.S., RockStep Solutions Inc.
- 2:45 pm Free period
- 6:00 pm Dinner (Highseas dining room)

## Friday, November 12<sup>th</sup>, 2021

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- 7:00 am Breakfast to go (Highseas snack room)
- 9:00 am Check out (Participants may occupy the 1<sup>st</sup> floor until noon)

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