Workshop on Colony Management and Biomethods

October 2-7, 2022

Schedule is subject to change.

All sessions will be held in the Highseas 3rd floor classroom unless stated otherwise.

Sunday, October 2nd, 2022

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

Monday, October 3rd, 2022

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 Angela Begin, MLAS, LVT, RLATg , 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_2, cervical dislocation, decapitation, thoracic puncture, perfusion**
5:30 pm	Transportation to Highseas (shuttle provided)
6:00 pm	Dinner (Highseas dining room)

Tuesday, October 4th, 2022

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, October 5th, 2022

7:00 am	Breakfast (Highseas dining room)
8:00 am	**Practical Guidelines for Maintaining Mouse Health** Amine Alioua, Ph.D., The Jackson Laboratory
8:45 am	Break
9:00 am	**Maintaining Severely Immune Compromised Mice** Amine Alioua, Ph.D., The Jackson Laboratory
9:30 am	**Eliminating Infectious Contaminants** Amine Alioua, Ph.D., The Jackson Laboratory
10:15 am	Break
10:30 pm	**Cryopreservation: A Cool Approach to Colony Management** Rob Taft, Ph.D., The Jackson Laboratory
11:15 pm	**Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies** Rob Taft, Ph.D., The Jackson Laboratory
12:00 pm	Lunch (Highseas dining room)
1:00 pm	**The Microbiome** Karen Svenson, Ph.D., The Jackson Laboratory
2:00 pm	**Nutritional Aspects of Maintaining Animal Health and Phenotype** Melanie Hoar, Ph.D., PMI Nutrition International
3:00 pm	Free period
6:00 pm	Dinner (Highseas dining room)

Thursday, October 6th, 2022

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	**Using Database Systems for Colony and Data Management** Charles Donnelly, B.S., and Julie Morrison, B.S., RockStep Solutions Inc.
1:30 pm	Break
1:45 pm	**Breeding Efficiency Using Electronic Tracking** Carrie LeDuc, B.S., TransnetYX
2:45 pm	Free period
6:00 pm	Dinner (Highseas dining room)

Friday, October 7th, 2022

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

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.