



Mouse Colony Management: Best Practices & Hands-On Techniques

Bar Harbor, ME
August 24-28, 2026

(schedule subject to change)

Sunday, August 23rd , 2026

3:00 - 5:00 pm	Registration Participants are not permitted to enter Highseas prior to 3:00pm
5:00 - 6:00pm	Welcome Reception (Highseas 1 st floor)
6:00 - 7:00 pm	Dinner (Highseas 1 st floor)

Monday, August 24th, 2026: Hands-on Laboratory Sessions

7:00 – 8:00 am	Breakfast (Highseas 1 st floor)
8:00 – 8:15 am	<i>Shuttle from Highseas to GRB Training Lab</i>
8:15 – 8:30 am	Welcome & Introductions Leanne Miceli, A.S., The Jackson Laboratory
8:30 – 10:30 am	Hands-on Laboratory Session: Male and Female Anatomy Leanne Miceli, A.S, Amanda Healy, ALAT and Hanah Donato, BS., The Jackson Laboratory
10:30 – 12:30 pm	Mouse Handling, Restraint, IP and Subcutaneous Injections Angela Begin, MLAS, LVT, RLATg; Kristin Cough, B.S., LATg Ben Carter and Samantha Shaneybrook, The Jackson Laboratory
12:30 – 1:30 pm	Lunch (Roscoe's)
1:30 – 3:30 pm	Oral Gavage and Tail Vein Injection Angela Begin, MLAS, LVT, RLATg; Kristin Cough, B.S., LATg Ben Carter and Samantha Shaneybrook, The Jackson Laboratory
3:30 – 5:30 pm	Blood Collection: Submental, Tail Tip and Cardiac Puncture (terminal)

Angela Begin, MLAS, LVT, RLATg; Kristin Cough, B.S., LATg
Ben Carter and Samantha Shaneybrook, The Jackson Laboratory

5:30 pm *Shuttle from GRB Training Lab to Highseas*

6:00 – 7:00 pm **Dinner** (Highseas 1st floor)

Tuesday, August 25th, 2026: Hands-on Laboratory Sessions (GRB Training Laboratory)

7:00 – 8:00 am **Breakfast** (Highseas 1st floor)

8:00 – 8:15 am *Shuttle from Highseas to GRB Training Lab*

8:15 – 10:30 am **Perfusion and Euthanasia Techniques: CO₂ Inhalation, Cervical Dislocation, Decapitation, and Thoracic Puncture**
Leanne Miceli, A.S, Angela Begin, MLAS, LVT, RLATg; Kristin Cough, B.S., LATg
Ben Carter and Samantha Shaneybrook, The Jackson Laboratory

10:30 -12:00 pm **Single Cell Suspension from Spleen and Bone Marrow Isolation**
Brent Berwin, Ph.D., Leanne Miceli, A.S, The Jackson Laboratory

12:00 – 1:00 pm **Lunch** (Roscoe's)

1:00 -4:00 pm **Choose-Your-Technique Concurrent Session:** *Time allows participants to perform only a subset of the available options, so please prioritize the skills most important to your work.*

- *Suturing and wound clip application*
- *Intramuscular injections (Quad, Gastric, Tibialis)*
- *Retro-orbital injection*
- *Intradermal injection*
- *Intranasal inoculation*
- *Urine collection*
- *Fecal collection*
- *Submandibular blood collection*
- *Saphenous vein blood collection*

Leanne Miceli, A.S, Angela Begin, MLAS, LVT, RLATg; Kristin Cough, B.S., LATg
Ben Carter and Samantha Shaneybrook, The Jackson Laboratory

4:00 pm *Shuttle from GRB Training Lab to Highseas*

6:00 – 7:00 pm **Dinner** (Highseas 1st floor)

Wednesday, August 26th, 2026 – Highseas Classroom – The Jackson Laboratory

7:00 – 8:00 am	Breakfast (Highseas 1 st floor)
8:00 – 8:15 am	Welcome (Highseas Classroom, 3 rd floor) Leanne Miceli, A.S., The Jackson Laboratory
8:15 – 9:30 am	Mouse Genetics and Strain Nomenclature (Highseas Classroom, 3 rd floor) Crystal Davis, M.S., The Jackson Laboratory
9:30 – 10:00 am	<i>Break</i>
10:00 – 12:00 pm	Colony Set-up and Breeding Strategies (Highseas Classroom, 3 rd floor) Jason Beckwith, M.S., The Jackson Laboratory
12:00 – 1:00 pm	Lunch (Highseas 1 st floor)
1:00 – 1:45 pm	Genetic Quality Control (Highseas Classroom, 3 rd floor) Jason Beckwith, M.S., The Jackson Laboratory
1:45 – 2:45 pm	Tools for Analyzing Colony Data (Highseas Classroom, 3 rd floor) Vivek Philip, PhD., The Jackson Laboratory
2:45 – 3:00 pm	<i>Break</i>
3:15 – 3:45 pm	The Importance of Good Routine Handling and Manipulation of Laboratory Mice to Enhance Animal Welfare and Mitigate Confounding Research Variables (Highseas Classroom, 3 rd floor) Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
3:45 – 4:15 pm	How to Prepare and Submit Samples for Diagnostic Pathology (Highseas Classroom, 3 rd floor) Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
4:15 – 6:00 pm	<i>Free time</i>
6:00 – 7:00 pm	Lobster Dinner (Highseas 1 st floor)

Thursday, August 27th , 2026 – Highseas Classroom – The Jackson Laboratory

7:00 – 8:00 am	Breakfast (Highseas 1 st floor)
8:00 – 9:00 am	Practical Guidelines for Maintaining Mouse Health (Highseas Classroom, 3 rd floor) Amine Alioua, M.S, Ph.D., The Jackson Laboratory

9:00 – 9:30 am	Maintaining Severely Immune Compromised Mice (Highseas Classroom, 3 rd floor) Amine Alioua, M.S, Ph.D., The Jackson Laboratory
9:30 – 10:15 am	Eliminating Infectious Contaminants (Highseas Classroom, 3 rd floor) Amine Alioua, M.S, Ph.D., The Jackson Laboratory
10:15 – 10:30 am	<i>Break</i>
10:30 – 11:15 am	Cryopreservation: A Cool Approach to Colony Management (Highseas Classroom, 3 rd floor) Rob Taft Ph.D., The Jackson Laboratory (Virtual)
11:15 – 12:00 pm	Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies (Highseas Classroom, 3 rd floor) Rob Taft Ph.D., The Jackson Laboratory (Virtual)
12:00– 1:00 pm	Lunch (Highseas 1 st floor)
1:00 – 2:00 pm	Nutritional Aspects of Maintaining Animal Health and Phenotype (Highseas Classroom, 3 rd floor) Laura N. Tracey, M.S., Land O'Lakes
2:00 - 2:15 pm	<i>Break</i>
2:15 – 3:15 pm	The Microbiome (Highseas Classroom, 3 rd floor) TBD
3:15 – 4:30 pm	Genetic Background Effects on Phenotype (Highseas Classroom, 3 rd floor) Greg Cox, Ph.D., University of Maine
4:30 – 6:00 pm	<i>Free time</i>
6:00 – 7:00 pm	Dinner (Highseas 1 st floor)

Friday, August 28th , 2026 – Highseas Classroom – The Jackson Laboratory

7:15 – 8:15 am	Breakfast (Highseas 1 st floor)
8:15 – 8:30 am	<i>Shuttle from Highseas to JAX</i>
8:30 – 9:30 am	Advanced ML/AI Based Phenotyping of the Laboratory Mouse (Highseas Classroom, 3 rd floor) Vivek Kumar Ph.D., The Jackson Laboratory

9:30 – 10:00 am	<i>Break</i>
10:00 – 11:00 am	Opportunities for Digital Home Cage Monitoring in Colony Management (Highseas Classroom, 3 rd floor) Noah T. Ditto M.S., MBA, The Jackson Laboratory
11:00 – 12:00 pm	Lunch (Highseas 1 st floor)
12:00 – 1:30 pm	Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice (Highseas Classroom, 3 rd floor) Kaya Ghosh Ph.D., The Jackson Laboratory
1:30 – 1:45 pm	<i>Break</i>
1:45 – 2:45 pm	Guidelines for sizing Mouse Colonies (Highseas Classroom, 3 rd floor) Kaya Ghosh Ph.D, The Jackson Laboratory
2:45 – 3:45 pm	Breeding Efficiency Using Electronic Tracking (Highseas Classroom, 3 rd floor) Ashley Foley, MS, LAT, TransnetYX (Virtual)
3:45 – 6:00 pm	<i>Free time</i>
6:00 – 7:00 pm	Dinner (Highseas 1 st floor)

Saturday August 29th , 2026

7:00 am	Grab and go breakfast (Highseas snack room)
9:00 am	Check-out* (Must leave room by 9:00, participants can stay on the first floor till noon if needed)