



Mouse Colony Management: Best Practices & Hands-On Techniques

Bar Harbor, ME
August 24-28, 2026

(schedule subject to change)

Sunday, August 23rd, 2026

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| 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

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| 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 1st floor)
- 8:00 – 8:15 am **Welcome** (Highseas Classroom, 3rd floor)
Leanne Miceli, A.S., The Jackson Laboratory
- 8:15 – 9:30 am **Mouse Genetics and Strain Nomenclature** (Highseas Classroom, 3rd floor)
Crystal Davis, M.S., The Jackson Laboratory
- 9:30 – 10:00 am *Break*
- 10:00 – 12:00 pm **Colony Set-up and Breeding Strategies** (Highseas Classroom, 3rd floor)
Jason Beckwith, M.S., The Jackson Laboratory
- 12:00 – 1:00 pm **Lunch** (Highseas 1st floor)
- 1:00 – 1:45 pm **Genetic Quality Control** (Highseas Classroom, 3rd floor)
Jason Beckwith, M.S., The Jackson Laboratory
- 1:45 – 2:45 pm **Tools for Analyzing Colony Data** (Highseas Classroom, 3rd floor)
Vivek Philip, PhD., The Jackson Laboratory
- 2:45 – 3:00 pm *Break*
- 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, 3rd 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, 3rd floor)
Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
- 4:15 – 6:00 pm *Free time*
- 6:00 – 7:00 pm **Lobster Dinner** (Highseas 1st floor)

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

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

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| 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

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| 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 |

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| 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

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| 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) |