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

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

7:30 – 7:45 am	*Shuttle from Highseas to Main Lab Entrance*
7:45 – 8:15 am	**Breakfast** *(Roscoe's Cafe)*
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, Melissa MacGowan, LAT, and Hannah 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, Jesse McGowan 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, Jesse McGowan 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, Jesse McGowan and Samantha Shaneybrook, The Jackson Laboratory

5:30 – 5:45 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)

7:30 – 7:45 am *Shuttle from Highseas to Main Lab Entrance*

7:45 – 8:15 am **Breakfast** *(Roscoe's Cafe)*

8:15 – 10:30 am **Perfusion and Euthanasia Techniques: CO_2 Inhalation, Cervical Dislocation, Decapitation, and Thoracic Puncture**
Leanne Miceli, A.S, Angela Begin, MLAS, LVT, RLATg; Kristin Cough, B.S., LATg
Ben Carter, Jesse McGowan 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, Jesse McGowan and Samantha Shaneybrook, The Jackson Laboratory

4:00 – 4:15 pm *Shuttle from GRB Training Lab to Highseas*

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

Wednesday, August 26th, 2026 – Staff Conference Room – The Jackson Laboratory

7:15 – 7:30 am	*Shuttle from Highseas to Main Lab Entrance*
7:30 – 8:00 am	**Breakfast** *(Roscoe's Cafe)*
8:00 – 8:15 am	**Welcome** *(Staff Conference Room)* Leanne Miceli, A.S., The Jackson Laboratory
8:15 – 9:30 am	**Mouse Genetics and Strain Nomenclature** *(Staff Conference Room)* Crystal Davis, M.S., The Jackson Laboratory
9:30 – 10:00 am	*Break*
10:00 – 12:00 pm	**Colony Set-up and Breeding Strategies** *(Staff Conference Room)* Jason Beckwith, M.S., The Jackson Laboratory
12:00 – 1:00 pm	**Lunch** *(Roscoe's Cafe)*
1:00 – 1:45 pm	**Genetic Quality Control** *(Staff Conference Room)* Jason Beckwith, M.S., The Jackson Laboratory
1:45 – 2:45 pm	**Tools for Analyzing Colony Data** *(Staff Conference Room)* 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** *(Staff Conference Room)* Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
3:45 – 4:15 pm	**How to Prepare and Submit Samples for Diagnostic Pathology** *(Staff Conference Room)* Jessica Wong, DVM, PhD, DACVP, The Jackson Laboratory
4:15 – 4:30 pm	*Shuttle from Main Lab Entrance to Highseas*
4:30 – 6:00 pm	*Free time*
6:00 – 7:00 pm	**Lobster Dinner** *(Highseas 1st floor)*

Thursday, August 27th , 2026 – Staff Conference Room – The Jackson Laboratory

7:15 – 7:30 am	*Shuttle from Highseas to Main Lab Entrance*
7:30 – 8:00 am	**Breakfast** *(Roscoe's Cafe)*
8:00– 9:00 am	**Practical Guidelines for Maintaining Mouse Health** (*Staff Conference Room)* Amine Alioua, M.S, Ph.D., The Jackson Laboratory
9:00 – 9:30 am	**Maintaining Severely Immune Compromised Mice** *(Staff Conference Room)* Amine Alioua, M.S, Ph.D., The Jackson Laboratory
9:30 – 10:15 am	**Eliminating Infectious Contaminants** *(Staff Conference Room)* Amine Alioua, M.S, Ph.D., The Jackson Laboratory
10:15 – 10:30 am	*Break*
10:30 – 11:15 am	**Cryopreservation: A Cool Approach to Colony Management** *(Staff Conference Room)* Rob Taft Ph.D., The Jackson Laboratory
11:15 – 12:00 pm	**Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies** *(Staff Conference Room)* Rob Taft Ph.D., The Jackson Laboratory
12:00– 1:00 pm	**Lunch** *(Roscoe's Cafe)*
1:00 – 2:00 pm	**Nutritional Aspects of Maintaining Animal Health and Phenotype** *(Staff Conference Room)* Jodi Cox PhD., Land O'Lakes
2:00 - 2:15 pm	*Break*
2:15 – 3:15 pm	**The Interplay Between Colony Health Status and the Mouse Gut Microbiome** *(Staff Conference Room)* Kaya Ghosh Ph.D., The Jackson Laboratory
3:15 – 4:30 pm	**Genetic Background Effects on Phenotype** *(Staff Conference Room)* Greg Cox, Ph.D., University of Maine
4:30 – 4:45 pm	*Shuttle from Main Lab Entrance to Highseas*
4:45 – 6:00 pm	*Free time*
6:00 – 7:00 pm	**Dinner** *(Highseas 1st floor)*

Friday, August 28th , 2026 – Staff Conference Room – The Jackson Laboratory

7:45 – 8:00 am	*Shuttle from Highseas to Main Lab Entrance*
8:00 – 8:30 am	**Breakfast** *(Roscoe's Cafe)*
8:30 – 9:30 am	**Advanced ML/AI Based Phenotyping of the Laboratory Mouse** *(Staff Conference Room)* Vivek Kumar Ph.D., The Jackson Laboratory
9:30 – 10:00 am	*Break*
10:00 – 11:00 am	**Opportunities for Digital Home Cage Monitoring in Colony Management** *(Staff Conference Room)* Noah T. Ditto M.S., MBA, The Jackson Laboratory
11:00 – 12:00 pm	**Lunch** *(Roscoe's Café)*
12:00 – 1:30 pm	**Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice** *(Staff Conference Room)* Kaya Ghosh Ph.D., The Jackson Laboratory
1:30 – 1:45 pm	*Break*
1:45 – 2:45 pm	**Guidelines for sizing Mouse Colonies** *(Staff Conference Room)* Kaya Ghosh Ph.D, The Jackson Laboratory
2:45 – 3:45 pm	**Breeding Efficiency Using Electronic Tracking** *(Staff Conference Room)* Ashley Foley, MS, LAT, TransnetYX (Virtual)
3:45 – 4:00 pm	*Shuttle from Main Lab Entrance to Highseas*
4:00 – 6:00 pm	*Free time*
6:00 – 7:00 pm	**Dinner** *(Highseas 1st 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)*