# Workshop on Stereotaxic Surgery in the Laboratory Mouse

**September 8-10, 2021, Bar Harbor, ME**

**Tuesday, September 7th**
- 4:00- Registration
- 6:00- Dinner (Highseas 1st Floor)

**Wednesday, September 8th**
- 7:30-8:15  Breakfast (Highseas 1st Floor)
- 8:15-8:30  Transportation to GRB Training Lab
- 8:30-8:45  **Welcome & Introductions**
- 8:45-9:45  **Survival Surgery Standards**
  - Bonnie Lyons, D.V.M., The Jackson Laboratory
- 9:45-10:45 **Biomethods**
  - Kristen Cough, B.S., The Jackson Laboratory
- 10:45-11:45 **Introduction to Stereotaxic Instruments and Critical Accessories**
  - Richard Mills, Ph.D., Stoelting
- 11:45-12:00 Transportation to Highseas
- 12:00-12:45 Lunch (Highseas 1st Floor)
- 12:45-1:00 Transportation to GRB Training Lab
- 1:00-1:45 **Introduction to Your Workstation** (tool attachment, how QSI works, manual controls, entering coordinates, etc) | Richard Mills, Ph.D., Stoelting
- 1:45-2:15 **Vernier Scale and Surgical Instruments**
  - Andree Lapierre, B.S., The Jackson Laboratory
- 2:15-5:00 **Fundamentals of Positioning Animals, Intracranial Injection, Brain Dissection and Lateral Ventricle Target Validation** (Placement in Snout Clamp and Ear Bars, Identifying Bregma, Intracranial Drilling and Microinjection)
  - Kevin Kane, L.A.T., Andree Lapierre, B.S. and Jennifer Corrigan, M.S., The Jackson Laboratory, Richard Mills, Ph.D., Stoelting
- 5:00-5:15 Transportation to Highseas
- 6:00- Dinner (Highseas 1st Floor)

**Thursday, September 9th**
- 7:30-8:15  Breakfast (Highseas 1st Floor)
- 8:15-8:30  Transportation to GRB Training Lab
- 8:30-11:30 **ICVC – Brain Cannulation in Lateral Ventricle** (Cannula Types, Securing Cannulas and Wound Closure)
11:30-11:45 Transportation to Highseas
11:45-1:30 Lunch (Highseas 1st Floor)

Weather permitting: optional hike to vista point (~1 mile each way) – Richard Mills, Ph.D., Stoelting

1:30-1:45 Transportation to GRB Training Lab
1:45-4:15 Bi-Lateral Brain Cannulation (Cannula Types, Securing Cannulas and Wound Closure)
Andree Lapierre, B.S., Kevin Kane, L.A.T. and Jennifer Corrigan, M.S., The Jackson Laboratory, Richard Mills, Ph.D., Stoelting

4:15-4:30 Transportation to Highseas
6:00- Dinner (Highseas 1st Floor)

**Friday, September 10th**

7:30-8:15 Breakfast (Highseas 1st Floor)
8:15-8:30 Transportation to GRB Training Lab
8:30-10:30 Cerebral Spinal Fluid (CSF) Collection
Jennifer Corrigan, M.S. and Andree Lapierre, B.S., The Jackson Laboratory, Richard Mills, Ph.D., Stoelting

10:30-11:00 Transportation to Highseas

11:00-12:00 Electrophysiology, Optogenetics, and Fiber Photometry: Techniques for Answering Questions About the Brain and Behavior (Highseas 3rd Floor)
Kristin Marquardt, Ph.D., Plexon

12:00-1:00 Lunch (Highseas 1st Floor)

1:00-1:45 Microdialysis (virtual)
Lauren Elolf, Ph.D., BASi

1:45-2:30 Q&A Session
Richard Mills, Ph.D., Stoelting; Kristin Marquardt, Ph.D., Plexon; and Andree Lapierre, B.S. and Jennifer Corrigan, M.S., The Jackson Laboratory

2:30-6:00 Free time

6:00 Dinner (Highseas 1st Floor)

**Saturday, September 11th**

7:00-9:00 To-Go Breakfast & Check Out (participants can remain in lobby after 9:00 if needed)