

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**
Stereotaxic Instruments (Standard, UltraPrecise, Digital, Digital UltraPrecise and Motorized), Important Accessories (Drill, Light, Magnification and Warmer)
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)

Andree Lapierre, B.S., Kevin Kane, L.A.T. and Jennifer Corrigan, M.S., The Jackson Laboratory,
Richard Mills, Ph.D., Stoelting

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 Eloff, 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)