



**Making and Genetically Manipulating Mouse Embryos (ARTs)**  
**2019 Schedule for Planning Purposes**

**2020 Check-In Date: Monday, May, 25<sup>th</sup>**

**2020 Check-Out Date: Friday, May 29<sup>th</sup>**

**Monday, May 6, 2019**

5:00pm                      **Registration and reception** (*Highseas Lobby*)

6:00                         **Dinner** – *Highseas Dining Room*

**Tuesday, May 7, 2019**

7:00-7:45                 **Breakfast** - Highseas

8:00-8:30                 **Course Overview and Introductions** (Highseas Conference Room)  
Robert Taft, Ph.D., The Jackson Laboratory

8:30-9:30                 **Assisted Reproductive Technologies – ARTs** (Highseas Conference Room)  
Robert Taft, Ph.D., The Jackson Laboratory

9:30-9:45                 **Break**

9:45-10:45               **Anesthesia, Analgesia and Aseptic Surgery Methods** (Highseas Conference Room)  
Bonnie Lyons, D.V.M., The Jackson Laboratory

10:45-11:45              **Cryobiology** (Highseas Conference Room)  
Robert Taft, Ph.D., The Jackson Laboratory

11:45-12:00              **Transportation to Roscoes**

12:00-1:00               **Lunch at Roscoes**

1:00-2:30                 **Biomethods** (Lab, GRB 3245)  
Kristin Cough, B.S., L.V.T., and Angela Begin, LVT, MBA, The Jackson Laboratory

2:30-3:00                 **Male and Female Reproductive Anatomy** (GRB 1025)

Robert Taft, Ph.D., The Jackson Laboratory

3:00-4:30	<b>Male and Female Anatomy: Demonstration and Practical</b> (Lab, GRB 3245) Jennifer Corrigan, M.S., Leanne Miceli, A.S., RALAT and Alison Kieffer, MBA, The Jackson Laboratory
4:30-4:45	<b>Clean-up</b>
4:45	<b>Transportation to Highseas</b>
6:00	<b>Dinner</b> – <i>Highseas Dining Room</i>

**Wednesday, May 8, 2019**

7:00-7:45	<b>Breakfast</b> - Highseas
8:00-8:15	<b>Transportation to Building 64, B115</b>
8:15-9:00	<b>Liquid Nitrogen Safety, Dry Shippers, Biobank</b> (Bld 64, B115) Michelle Burns and Bree Roberts, B.C.S., The Jackson Laboratory
9:00-9:15	<b>Break</b>
9:15-11:15	<b>Concurrent Electives: Demos and Hands-on</b> (Lab, GRB 3245) <ul style="list-style-type: none"><li>• <b>Microcapillary Transfer Pipetting</b> Bree Roberts, B.C.S., The Jackson Laboratory</li><li>• <b>Pulling Microcapillary Transfer Pipettes</b> Jennifer Corrigan, M.S., The Jackson Laboratory</li><li>• <b>Flushing Embryos</b> Leanne Miceli, A.S., RALAT, The Jackson Laboratory</li><li>• <b>Selecting Mice in Estrus for the Generation of Pseudopregnant Females</b> Bree Roberts, B.C.S., and Jennifer Corrigan, M.S., The Jackson Laboratory</li></ul>
11:15-11:45	<b>Sperm Cryopreservation</b> (GRB 1025) Robert Taft, Ph.D., The Jackson Laboratory
11:45-12:45	<b>Lunch at Roscoes</b>
12:45-2:15	<b>Sperm Collection and Cryopreservation</b> (Lab, GRB 3245) Jane Farley, Leanne Miceli, A.S., RALAT and Jennifer Corrigan, M.S., The Jackson Laboratory
2:15-2:30	<b>Break</b>
2:30-3:30	<b>In-Vitro Fertilization Planning: Strain Selection, Superovulation and Project Planning</b> (GRB 1025)

Bree Roberts, B.C.S., The Jackson Laboratory

3:30-4:15      ***In-Vitro Fertilization Preparation: Media, Dishes and More*** (Lab, GRB 3245)  
Jennifer Corrigan, M.S., Bree Roberts, B.C.S. and Leanne Miceli, A.S., RALAT,  
The Jackson Laboratory

4:15            **Clean-up**

4:30            **Transportation to Highseas**

6:00            **Dinner** – *Highseas Dining Room*

### **Thursday, May 9, 2019**

7:00-7:45      **Breakfast** - Highseas

7:45-8:00      **Transportation to Training Lab, GRB 3245**

8:00-10:00    ***In-Vitro Fertilization Using Fresh and Frozen Sperm*** (Lab, GRB 3245)  
Jennifer Corrigan, M.S., Jane Farley, Bree Roberts, B.C.S. and Leanne Miceli, A.S.,  
RALAT, The Jackson Laboratory

10:00-10:15   **Break**

10:15-12:30   **Surgical Procedures: Vasectomy and Embryo Transfer** (Lab, GRB 3245):  
Jennifer Corrigan, M.S., Charles Longstaff, CSSGB, Bree Roberts, B.C.S. and  
Leanne Miceli, A.S., RALAT, The Jackson Laboratory. Surgical Prep: Alison  
Kieffer, MBA, The Jackson Laboratory

12:30-1:30    **Lunch at Roscoes**

1:30-2:45      ***In Vitro Fertilization Change-Over*** (Lab, GRB 3245)  
Jennifer Corrigan, M.S., Bree Roberts, B.C.S., Leanne Miceli, A.S., RALAT, and  
Jane Farley, The Jackson Laboratory

2:45-3:00      **Break**

3:00-5:00      **Non-Surgical Embryo Transfer (NSET) Demonstration and Practical** (GRB 3245)  
Barbara Stone, Ph.D., Paratechs

5:00            **Transportation to Highseas**

6:00            **Dinner** – *Highseas Dining Room*

### **Friday, May 10, 2019**

7:00-7:45	<b>Breakfast</b> - Highseas
7:45-8:00	<b>Transportation to GRB 1025</b>
8:00-8:45	<b>Introduction to Controlled-Rate Freezing</b> (GRB 1025) Robert Taft, Ph.D., The Jackson Laboratory
8:45-9:00	<b>Break</b>
9:00-9:30	<b>Count/Evaluate Embryos from IVF</b> (Lab, GRB 3245) Jennifer Corrigan, M.S., Bree Roberts, B.C.S., Leanne Miceli, A.S., RALAT, The Jackson Laboratory
9:30-12:00	<b>Freeze Embryos in Straws: Controlled Rate Method</b> (Lab, GRB 3245) Bree Roberts, B.C.S., Leanne Miceli, A.S., RALAT and Jennifer Corrigan, M.S., The Jackson Laboratory
12:00-1:00	<b>Lunch at Roscoes</b>
1:00-2:00	<b>Thawing Embryos Frozen in Straws</b> Demonstration & Hands-on (Lab, GRB 3245) Bree Roberts, B.C.S. and Leanne Miceli, A.S., RALAT The Jackson Laboratory
2:00-2:15	<b>Break</b>
2:15-3:00	<b>IVF Troubleshooting</b> (GRB 1025) Rob Taft, Ph.D. and Jane Farley, The Jackson Laboratory
3:00-3:45	<b>Implementing ARTS at Your Institution: Quality Control, Data Management and Beyond</b> (GRB 1025) Robert Taft, Ph.D., The Jackson Laboratory
3:45-4:30	<b>Discussion, FAQ's and Certificates</b> (GRB 1025) Robert Taft, Ph.D. and Jane Farley The Jackson Laboratory
4:30	<b>Transportation to Highseas</b>
6:00	<b>Dinner</b> – <i>Highseas Dining Room</i>

### **Saturday, May 11, 2019**

7:00-8:00	<b>Breakfast</b>
9:00	<b>Room check-out</b>