



## **Workshop on Assisted Reproductive Technologies (ARTs) in the Laboratory Mouse**

**May 6-11, 2019**

The Jackson Laboratory in Bar Harbor, Maine.

### **Workshop Schedule**

***This schedule is subject to change.***

#### **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 | <b>Male and Female Reproductive Anatomy</b> (GRB 1025)<br>Robert Taft, Ph.D., The Jackson Laboratory  |
| 3:00-4:30 | <b>Male and Female Anatomy: Demonstration and Practical</b> (Lab, GRB 3245)<br>Jennifer Corrigan, M.S., Leanne Miceli, A.S., RALAT and Alison Kieffer, MBA,<br>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)<br>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><br/>Bree Roberts, B.C.S., The Jackson Laboratory</li> <li>• <b>Pulling Microcapillary Transfer Pipettes</b><br/>Jennifer Corrigan, M.S., The Jackson Laboratory</li> <li>• <b>Flushing Embryos</b><br/>Leanne Miceli, A.S., RALAT, The Jackson Laboratory</li> <li>• <b>Selecting Mice in Estrus for the Generation of Pseudopregnant Females</b><br/>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)<br>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)<br>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><i>In-Vitro</i> Fertilization Planning: Strain Selection, Superovulation and</b>  |

**Project Planning (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)<br>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)<br>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)<br>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)<br>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)<br>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)<br>Robert Taft, Ph.D., The Jackson Laboratory                              |
| 3:45-4:30  | <b>Discussion, FAQ's and Certificates</b> (GRB 1025)<br>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**

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