



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

May 7-12, 2018

The Jackson Laboratory in Bar Harbor, Maine.

### **Workshop Schedule**

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

#### **Monday, May 7, 2018**

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

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

#### **Tuesday, May 8, 2018**

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

7:45-8:00                **Transportation to GRB 3225**

8:00-8:30                **Course Overview and Introductions** (GRB 3225)  
Robert Taft, Ph.D., The Jackson Laboratory

8:30-9:30                **Assisted Reproductive Technologies – ARTs** (GRB 3225)  
Robert Taft, Ph.D., The Jackson Laboratory

9:30-9:45                **Break**

9:45-10:45              **Anesthesia, Analgesia and Aseptic Surgery Methods** (GRB 3225)  
Bonnie Lyons, D.V.M., The Jackson Laboratory

10:45-11:45             **Cryobiology** (GRB 3225)  
Robert Taft, Ph.D., The Jackson Laboratory

11:45-12:45             **Lunch at JAX provided** (Roscoes)

12:45-2:30              **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** (Lab, GRB 3245)  
Robert Taft, Ph.D., The Jackson Laboratory
- 3:00-4:30            **Male and Female Anatomy: Demonstration and Practical** (Lab, GRB 3245)  
Jennifer Corrigan, M.S., Leanne Miceli, A.S., RALAT and Alison Kieffer, MBA,  
The Jackson Laboratory
- 4:30-4:45            **Clean-up**
- 4:45                    **Transportation to Highseas**
- 6:00                    **Dinner at Highseas**

**Wednesday, May 9, 2018**

- 7:00-7:45            **Breakfast - Highseas**
- 8:00-8:15            **Transportation to Building 64, B115**
- 8:15-9:00            **Liquid Nitrogen Safety, Dry Shippers, Biobank** (Bld 64, B115)  
Michelle Burns and Bree Roberts, B.C.S., The Jackson Laboratory
- 9:00-9:15            **Break**
- 9:15-11:15           **Concurrent Electives: Demos and Hands-on** (Lab, GRB 3245)
- **Microcapillary Transfer Pipetting**  
Bree Roberts, B.C.S., The Jackson Laboratory
  - **Pulling Microcapillary Transfer Pipettes**  
Jennifer Corrigan, M.S., The Jackson Laboratory
  - **Flushing Embryos**  
Leanne Miceli, A.S., RALAT, The Jackson Laboratory
  - **Selecting Mice in Estrus for the Generation of Pseudopregnant Females**  
Bree Roberts, B.C.S., The Jackson Laboratory
- 11:15-11:45           **Sperm Cryopreservation** (GRB 3225)  
Robert Taft, Ph.D., The Jackson Laboratory
- 11:45-12:45           **Lunch at JAX provided** (Roscoes)
- 12:45-2:15           **Sperm Collection and Cryopreservation** (GRB 3245)  
Myrna Bragg, LAT, Jane Farley, Leanne Miceli, A.S., RALAT and Jennifer  
Corrigan, M.S., The Jackson Laboratory
- 2:15-2:30            **Break**
- 2:30-3:30            ***In-Vitro* Fertilization Planning: Strain Selection, Superovulation and**

**Project Planning (GRB 3225)**  
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 Jane Farley, The Jackson Laboratory

4:15 **Clean-up**

4:30 **Transportation to Highseas**

6:00 **Dinner at Highseas**

**Thursday, May 10, 2018**

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., Myrna Bragg, LAT, 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, Ovarian Transplant and Embryo Transfer** (Lab, GRB 3245):  
Jennifer Corrigan, M.S., Bree Roberts, B.C.S. and Leanne Miceli, A.S., RALAT, The Jackson Laboratory. Surgical Prep: Myrna Bragg, LAT, and Alison Kieffer, MBA, The Jackson Laboratory

12:30-1:30 **Lunch at JAX provided (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, Myrna Bragg, LAT and Jane Farley, The Jackson Laboratory

2:45-3:00 **Break**

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

5:00 **Transportation to Highseas**

6:00 **Dinner at Highseas**

## **Friday, May 11, 2018**

- 7:00-7:45            **Breakfast** - Highseas
- 7:45-8:00           **Transportation to GRB 3245**
- 8:00-8:45           **Introduction to Controlled-Rate Freezing** (GRB 3245)  
Robert Taft, Ph.D., The Jackson Laboratory
- 8:45-9:00           **Break**
- 9:00-9:30           **Count/Evaluate Embryos from IVF** (Lab, GRB 3245)  
Jennifer Corrigan, M.S. and Jane Farley, The Jackson Laboratory
- 9:30-12:00          **Freeze Embryos in Straws: Controlled Rate Method** (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          **Lunch at JAX provided** (Roscoes)
- 1:00-1:30           **Thawing Embryos Frozen in Straws (Compatible Method) Demonstration**  
(Lab, GRB 3245)  
Bree Roberts, B.C.S., The Jackson Laboratory
- 1:30-2:00           **Thawing Embryos Frozen in Straws** (Lab, GRB 3245)  
Bree Roberts, B.C.S. and Jennifer Corrigan, M.S., The Jackson Laboratory
- 2:00-2:15           **Break**
- 2:15-3:00           **IVF Troubleshooting** (lecture and discussion, GRB 3225)  
Rob Taft, Ph.D. and Jane Farley, The Jackson Laboratory
- 3:00-3:45           **Implementing ARTS at Your Institution: Quality Control, Data  
Management and Beyond** (GRB 3225)  
Robert Taft, Ph.D., The Jackson Laboratory
- 3:45-4:30           **Discussion, FAQ's and Certificates** (Lab, GRB 3245)  
Robert Taft, Ph.D. and Jane Farley The Jackson Laboratory
- 4:30                   **Transportation to Highseas**
- 6:00                   **Dinner at Highseas**

## **Saturday, May 12, 2018**

**Breakfast and departures** (*Room check-out is 9:00 A.M.*)