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., 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., Jane Farley and Myrna Bragg, 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)
The Jackson Laboratory

9:00-9:15 **Break**

9:15-11:15 **Concurrent Electives** (Lab, GRB 3245)

- **Microcapillary Transfer Pipetting**
- The Jackson Laboratory
- **Pulling Microcapillary Transfer Pipettes**
  Jennifer Corrigan, M.S., The Jackson Laboratory
- **Flushing Embryos**
  Leanne Miceli, The Jackson Laboratory
- **Selecting Mice in Estrus for the Generation of Pseudopregnant Females**
  Bree Roberts, The Jackson Laboratory

11:15-11:45 **Sperm Cryopreservation** (GRB 3225)
The Jackson Laboratory

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

12:45-2:15 **Sperm Collection and Cryopreservation** (GRB 3245)
Jane Farley, Myrna Bragg 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**)**
The Jackson Laboratory

3:30-4:15 ***In-Vitro* Fertilization Preparation: Media, Dishes and More** (Lab, GRB 3245)
Jennifer Corrigan, M.S., Jane Farley and Myrna Bragg, 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., Teri Stratton-Linscott and Jane Farley, The Jackson Laboratory

10:00-10:15 **Break**

10:15-12:30 **Surgical Procedures** (Lab, GRB 3245)

- Vasectomy
- Ovarian Transplant
- Embryo Transfer

Jennifer Corrigan, M.S., Bree Roberts and Leanne Miceli, 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., Teri Stratton-Linscott 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, 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**

8:00-9:00 **Introduction to Controlled-Rate Freezing** (GRB 3245)
Robert Taft, Ph.D., The Jackson Laboratory

9:00-9:15 **Break**

9:15-9:45 **Count/Evaluate Embryos from IVF** (Lab, GRB 3245)
Jennifer Corrigan, M.S. and Jane Farley, The Jackson Laboratory

9:45-11:15	**Freeze Embryos in Straws: Controlled Rate Method** (Lab, GRB 3245) Bree Roberts, Leanne Miceli and Myrna Bragg, The Jackson Laboratory
11:15-12:15	**Lunch at JAX provided** (Roscoes)
12:15-12:45	**Thawing Embryos Frozen in Straws (Compatible Method) Demonstration** (Lab, GRB 3245) Bree Roberts and Myrna Bragg, The Jackson Laboratory
12:45-1:15	**Thawing Embryos Frozen in Straws** (Lab, GRB 3245) Bree Roberts and Myrna Bragg, The Jackson Laboratory
1:15-1:30	**Break**
1:30-2:30	**IVF Troubleshooting** (lecture and discussion, GRB 3225) Rob Taft, Ph.D. and Jane Farley, The Jackson Laboratory
2:30-3:30	**Implementing ARTS at Your Institution: Quality Control, Data Management and Beyond (**GRB 3225) Robert Taft, Ph.D., The Jackson Laboratory
3:30-4:30	**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

7:00-8:00	**Breakfast** (Highesas dining room)
9:00am	Room check-out