



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

May 1-6, 2017

The Jackson Laboratory in Bar Harbor, Maine.

Workshop Schedule

This schedule is subject to change.

Monday, May 1st, 2017

- 3:00-7:00 pm **Registration/Check in - Highseas Lobby**
- 5:30 **Reception - Highseas Lobby**
- 6:00 **Dinner – Highseas Dining Room**

Tuesday, May 2, 2017

- 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 (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)
Shannon Byers, M.S., M.B.A. , Lindsay Ware, 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 3, 2017

- 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)
Lindsay Ware, M.S., The Jackson Laboratory
- 9:00-9:15 **Break**
- 9:15-11:15 **Concurrent Electives** (Lab, GRB 3245)
- **Microcapillary Transfer Pipetting**
Bree Roberts, 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**
Shannon Byers, M.S., M.B.A., The Jackson Laboratory
- 11:15-11:45 **Sperm Cryopreservation** (GRB 3225)
Steven Griswold, B.A., B.S., The Jackson Laboratory
- 11:45-12:45 **Lunch** (Roscoes)
- 12:45-2:15 **Sperm Collection and Cryopreservation** (GRB 3245)
Jane Farley, Lindsay Ware, M.S., 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)
Shannon Byers, M.S., M.B.A., The Jackson Laboratory

- 3:30-4:15 ***In-Vitro Fertilization Preparation: Media, Dishes and More*** (Lab, GRB 3245)
Shannon Byers, M.S., M.B.A., The Jackson Laboratory
Lindsay Ware, M.S., Jennifer Corrigan, M.S. and Myrna Bragg, The Jackson
Laboratory
- 4:15 **Clean-up**
- 4:30 **Transportation to Highseas**
- 6:00 **Dinner at Highseas**

Thursday, May 4, 2017

- 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)
Shannon Byers, M.S., M.B.A., The Jackson Laboratory
Lindsay Ware, M.S., Teri Stratton-Linscott, Jennifer Corrigan, M.S. and Jane
Farley, The Jackson Laboratory
- 10:00-10:15 **Break**
- 10:15-12:15 **Concurrent Electives**
- Vasectomy (Lab, GRB 3245)
Jennifer Corrigan, M.S., The Jackson Laboratory
 - Ovarian Transplant (Lab, GRB 3245)
Bree Roberts, The Jackson Laboratory
 - Ask the Expert: Bring your questions (GRB 3225)
Robert Taft, Ph.D., Shannon Byers, M.S., M.B.A., Lindsay Ware, M.S.,
and Jane Farley, The Jackson Laboratory
- 12:15-1:15 **Lunch** (Roscoes)
- 1:15-2:30 ***In Vitro Fertilization Change-Over*** (Lab, GRB 3245)
Shannon Byers, M.S., M.B.A., The Jackson Laboratory
Lindsay Ware, M.S., Teri Stratton-Linscott, Jennifer Corrigan, M.S. and Jane
Farley, The Jackson Laboratory
- 2:30-2:45 **Break**
- 2:45-3:45 **IVF Troubleshooting** (lecture and discussion, GRB 3225)
Rob Taft, Ph.D., Shannon Byers, M.S., M.B.A., Lindsay Ware, M.S. and Jane
Farley, The Jackson Laboratory

3:45-4:45 **Implementing ARTS at Your Institution: Quality Control, Data Management and Beyond** (GRB 3225)
Robert Taft, Ph.D., The Jackson Laboratory

4:45 **Transportation to Highseas**

6:00 **Dinner at Highseas**

Friday, May 5, 2017

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)
Shannon Byers, M.S., M.B.A., The Jackson Laboratory
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, The Jackson Laboratory
Leanne Miceli and Jennifer Corrigan, M.S., The Jackson Laboratory

11:15-12:15 **Lunch**

12:15-12:45 **Thawing Embryos Frozen in Straws (Compatible Method) Demonstration**
(Lab, GRB 3245)
Bree Roberts, The Jackson Laboratory

12:45-1:15 **Thawing Embryos Frozen in Straws** (Lab, GRB 3245)
Bree Roberts, The Jackson Laboratory
Jennifer Corrigan, M.S., The Jackson Laboratory

1:15-1:45 **Surgical Prep and Embryo Transfer Surgery Demonstration** (Lab, GRB 3245)
Bree Roberts, The Jackson Laboratory

1:45 -2:00 **Break**

2:00-3:30 **Embryo Transfer Practice** (Lab, GRB 3245)
Bree Roberts, The Jackson Laboratory
Jennifer Corrigan, M.S. and Leanne Miceli, The Jackson Laboratory

3:30-4:30 **Non-Surgical Embryo Transfer (NSET) Demonstration and Practical** (Lab, GRB 3245)

Barbara Stone, Paratechs

4:30-5:00

Discussion, FAQ's and Certificates (Lab, GRB 3245)

Robert Taft, Ph.D., Shannon Byers, M.S., M.B.A., and Lindsay Ware, M.S., The Jackson Laboratory

5:00

Transportation to Highseas

6:00

Dinner at Highseas

Saturday, May 6, 2017

Departures – Travel Day