Workshop on Techniques in Modeling Human Cancer in Mice

September 12-18, 2021

WORKSHOP SCHEDULE

This schedule is subject to change.

Sunday, September 12th, 2021

4:30pm  Registration and reception  Highseas 1st Floor
5:30pm  Dinner  Highseas 1st Floor
6:00pm  Orientation and Introductions
        David Threadgill, Ph.D., Texas A & M University,
        Richard Halberg, Ph.D., University of Wisconsin, &
        Jennifer Corrigan, M.S., The Jackson Laboratory  Highseas 1st Floor

Monday, September 13, 2021

8:30am  Laboratory Mouse – History, Genetics, Tools, Nomenclature and More
        David Threadgill, Ph.D., Texas A&M University  Highseas 3rd Floor
9:30am  Break
9:45am  Introduction to a Basic Mouse Necropsy
        Stephanie Montgomery, Ph.D., DVM, DACVP and Hannah Atkins,
        Ph.D., DVM, DACVP, University of North Carolina  Highseas 3rd Floor
10:15am Pathology Exercise
        Stephanie Montgomery, Ph.D., DVM, DACVP and Hannah Atkins,
        Ph.D., DVM, DACVP, University of North Carolina  Highseas 3rd Floor
10:45am Considerations for Rigor and Reproducibility in Preclinical Models
        Stephanie Montgomery, Ph.D., DVM, DACVP and Hannah Atkins,
        Ph.D., DVM, DACVP, University of North Carolina  Highseas 3rd Floor
12:00pm Lunch and In Vivo Imaging Rotating Sessions
        (Imaging group #1 will grab a quick lunch then travel to the GRB Training
        Lab at 12:30. Everyone else will travel to the GRB Training Lab at 1:15.)
        Highseas dining area/GRB Training Laboratory
1:30pm  Mouse Biomethodology: Handling, Restraint, IP and Tail Vein Injections
        Kristin Cough, B.S., The Jackson Laboratory  GRB Training Laboratory
3:15  Necropsy (Hands-on)
Stephanie Montgomery, Ph.D., DVM, DACVP and Hannah Atkins, Ph.D., DVM, DACVP, University of North Carolina  
GRB Training Laboratory

4:45pm  Break

5:00pm  Pathology Review (bring your own fixed slides for analysis)
DO NOT BRING FRESH TISSUE TO THE JACKSON LABORATORY
Stephanie Montgomery, Ph.D., DVM, DACVP, and Hannah Atkins, Ph.D., DVM, DACVP, University of North Carolina  
GRB Training Laboratory

5:30pm  Travel to Highseas

6:00pm  Dinner  
Highseas 1st Floor

7:00pm  Considerations for Ensuring High-Quality Data from Digital Image Analysis
Stephanie Montgomery, Ph.D., DVM, DACVP, and Hannah Atkins, Ph.D., DVM, DACVP, University of North Carolina  
Highseas 3rd Floor Conf. Room

Tuesday, September 14, 2021

6:00am  Free Time: JAX is surrounded by Acadia National Park and while JAX does not organize free time activities, participants often venture into the National Park and/or enjoy visitor activities in and around Bar Harbor. Individuals interested in doing so are encouraged to bring appropriate clothing & footwear suitable for hiking terrain. Please adhere to park rules and regulations (www.nps.gov/acadia).

10:00am  Models of Breast Cancer, Mammary Metastasis Models and Use of Cancer Cell Lines
Erin Giles, Ph.D., Texas A&M University  
Highseas 3rd Floor Conf. Room

12:00pm  Lunch and In Vivo Imaging Rotating Sessions
(Imaging group #2 will grab a quick lunch then travel to the GRB Training Lab at 12:30. Everyone else will travel to the GRB Training Lab at 1:15)  
Highseas dining area/GRB Training Laboratory

1:30pm  Dissection of Mammary Glands, Whole Mount Preparation, Whole Mount Analysis, Mammary Gland Palpations, Tumor/Fat Pad/Lymph Node Collection, Fat Pad Clearing for Mammary Cell Transplantation, Orthotopic Injections into the Mammary Fat Pad
Erin Giles, Ph.D., Texas A&M University  
GRB Training Laboratory

5:30pm  Travel to Highseas

6:00pm  Dinner  
Highseas 1st Floor

7:00pm  Models of Colon Cancer
David Threadgill, Ph.D., Texas A&M University  
Highseas 3rd Floor
**Wednesday, September 15, 2021**

8:00am  **Predicting Colon Polyp Fate and Response to Therapy**  
Richard Halberg, Ph.D., University of Wisconsin  
Highseas 3rd Floor Conf. Room

9:00am  **Travel to GRB Training Laboratory**

9:30am  **Rotating Sessions**
- **Group A: Endoscopy Techniques**
- **Group B: Dissection and Tumor Quantification**  
David Threadgill, Ph.D., Texas A & M University, Richard Halberg, Ph.D., University of Wisconsin, and Alyssa Leystra, Ph.D., Fox Chase Cancer Center

10:30am  **Switch Groups**
- **Group A: Endoscopy Techniques**
- **Group B: Dissection and Tumor Quantification**

11:30am  **Lunch and In Vivo Imaging Rotating Sessions**
(Imaging group #3)  
- *In-vivo* sessions in GRB lab  
- *Lunch TBD*

1:00pm  **Organoid Cultures and Their Utility**  
Alyssa Leystra, Ph.D., Fox Chase Cancer Center  
GRB Training Laboratory

1:15pm  **Preparation of Organoid Cultures and Alternative Delivery Techniques for the Colon**  
David Threadgill, Ph.D., Texas A & M University, Richard Halberg, Ph.D., University of Wisconsin, Alyssa Leystra, Ph.D., Fox Chase Cancer Center  
GRB Training Laboratory

5:30pm  **Van Transportation to Highseas Conference Center**

6:00pm  **Dinner**  
Free evening  
Highseas 1st Floor

**Thursday, September 16, 2021**

10:00am  **Models of Lung Cancer**  
Katerina Politi, Ph.D., Yale University  
Highseas 3rd Floor Conf. Room

11:00am  **Translational Value of Mouse Models of Lung Cancer**  
Margie Clapper, Ph.D., Fox Chase Cancer Center  
Highseas 3rd Floor Conf. Room

12:00pm  **Lunch and In Vivo Imaging Rotating Sessions**
(Imaging group #4 will grab a quick lunch then travel to the GRB Training Lab at 12:30. Everyone else will travel to the GRB Training Lab at 1:15)  
- *In-vivo* sessions in GRB lab  
- *Lunch TBD*

1:30pm  **Lung Preparation and Injections**  
Katerina Politi, Ph.D., Yale University  
Margie Clapper, Ph.D., Fox Chase Cancer Center  
GRB Training Laboratory

3:15pm  **Intubation and Ventilation**  
Katerina Politi, Ph.D., Yale University  
Margie Clapper, Ph.D., Fox Chase Cancer Center  
GRB Training Laboratory

6:00pm  **Dinner**  
Highseas 1st Floor
7:00pm  **Participant Presentations** (Bring a 10 min PowerPoint presentation of your work)  Highseas 3rd Floor Conf. Room

**Friday, September 17, 2021**

9:00am  **Imaging Cancer** (Modalities and discussion of hands-on imaging)  Muneer Hasham, Ph.D., The Jackson Laboratory  Highseas 3rd Floor

10:15am  **Patient Derived Mouse Models of Cancer (PDX)**  Muneer Hasham, Ph.D., The Jackson Laboratory  Highseas 3rd Floor

11:30am  Lunch  Highseas 1st Floor

1:00pm  **Leukemia/Lymphoma Techniques: Lymph Node & Spleen Dissections, Splenocyte & Bone Marrow Isolation**  Muneer Hasham, Ph.D., Jane Branca, B.S., and Jennifer Corrigan, M.S., The Jackson Laboratory  GRB Training Laboratory

3:00-5:00pm  **Xenografting (Subcutaneous PDX and Kidney Capsule)**  Bonnie Lyons, D.V.M., Jennifer Corrigan, M.S., & Andree Lapierre, B.S., The Jackson Laboratory  GRB Training Laboratory

6:00pm  Dinner

7:00pm  **Participant Presentations** (Bring a 10 min PowerPoint presentation of your work)  Lecture Room TBD

**Saturday, September 18, 2021**

8:30am  **Prostate Cancer: Clinical Problems, Research Resources and Opportunities**  Renee Vickman, Ph.D., NorthShore University HealthSystem Research Institute  Highseas 3rd Floor

9:30am  **Brain Cancer Models**  Raquel Sitcheran, Ph.D., Texas A & M Health Science Center  Highseas 3rd Floor

10:30  **Travel to GRB Training lab**

11:00pm  **Prostate Dissection & Prostate Injection**  Renee Vickman, Ph.D., NorthShore University HealthSystem Research Institute  GRB Training Laboratory

12:30pm  Lunch  TBD  Lunch TBD

1:30pm  **Stereotaxic Intracranial Injection, Brain Isolation, and Whole Body Perfusion**  Raquel Sitcheran, Ph.D., Texas A & M Health Science Center, Jennifer Corrigan, M.S., and Andree Lapierre, B.S., The Jackson Laboratory  Highseas 3rd Floor
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<th>Time</th>
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