

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 1 st Floor
5:30pm	Dinner	Highseas 1 st 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 1 st Floor

Monday, September 13, 2021

8:30am	Laboratory Mouse – History, Genetics, Tools, Nomenclature and More David Threadgill, Ph.D., Texas A&M University	Highseas 3 rd 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 3 rd Floor
10:15am	Pathology Exercise Stephanie Montgomery, Ph.D., DVM, DACVP and Hannah Atkins, Ph.D., DVM, DACVP, University of North Carolina	Highseas 3 rd 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 3 rd Floor
12:00pm	Lunch and In Vivo Imaging (Group 1) Jennifer Sargent, B.S., The Jackson Laboratory (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 Bi methodology: Handling, Restraint, IP and Tail Vein Injections	GRB Training Laboratory

3:15	Kristin Cough, B.S., The Jackson Laboratory 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 <u>fixed</u> 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 1 st 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 3 rd 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 3 rd Floor Conf. Room
12:00pm	Lunch and In Vivo Imaging (Group 2) Jennifer Sargent, B.S., The Jackson Laboratory (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 1 st Floor
7:00pm	Models of Colon Cancer David Threadgill, Ph.D., Texas A&M University	Highseas 3 rd 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
GRB Training
Laboratory
- 10:30am Switch Groups**
Group B: Endoscopy Techniques
Group A: Dissection and Tumor Quantification
GRB Training
Laboratory
- 11:30am Lunch and In Vivo Imaging (Group 3)**
Jennifer Sargent, B.S., The Jackson Laboratory
(Imaging group #3 will grab a quick lunch then go to the GRB Training Lab at
12:00. Everyone else will return to the training laboratory at 1:00.)
-*In-vivo* sessions
in GRB lab
-Lunch at
Roscoe's Dining
- 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 (Group 3)**
Jennifer Sargent, B.S., The Jackson Laboratory
(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 1 st Floor
7:00pm	Participant Presentations (Bring a 10 min PowerPoint presentation of your work)	Highseas 3 rd 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 3 rd Floor
10:15am	Patient Derived Mouse Models of Cancer (PDX) Muneer Hasham, Ph.D., The Jackson Laboratory	Highseas 3 rd Floor
11:30am	Lunch	Highseas 1 st 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 3 rd Floor
9:30am	Brain Cancer Models Raquel Sitcheran, Ph.D., Texas A & M Health Science Center	Highseas 3 rd Floor
10:30	Travel to GRB Training lab	
11:00pm	Urogenital Tract Isolation and Prostate Dissection Renee Vickman, Ph.D., NorthShore University HealthSystem Research Institute	GRB Training Laboratory
12:30pm	Lunch	Roscoe's Dining Hall

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	GRB Training Laboratory
5:00	Travel to Highseas	
6:00	Dinner	Highseas 1 st Floor
7:00	Perspectives Gained and Needed	Highseas

Sunday, September 19, 2021

7:00 am -	Grab & Go Breakfast & Checkout	Highseas 1 st)
9:00 am	Participants may remain on the 1 st floor later than 9:00 if needed.	Floor