



Workshop on Techniques in Modeling Human Cancer in Mice

August 20-27, 2017

WORKSHOP SCHEDULE

This schedule is subject to change.

Sunday, August 20, 2017

Location: Highseas Conference Center

- 4:30pm** **Registration and reception** (*Highseas Lobby*)
- 5:30pm** **Dinner** (*Highseas 1st floor*)
- 6:30pm** **Orientation and Introductions**
David Threadgill, Ph.D., Texas A & M University
Richard Halberg, Ph.D., University of Wisconsin
Charles Wray, Ph.D., The Jackson Laboratory
Jennifer Corrigan, M.S., The Jackson Laboratory

Monday, August 21, 2017

- 7:00am** **Breakfast** (*Highseas 1st floor*)
- 8:00am** **Course evaluations** (*Highseas 3rd floor*)
Sharon LaBrie, M.S., University of Maine Center for Research and Evaluation
- 8:15am** **Laboratory mouse – History, genetics, tools, nomenclature and more**
David Threadgill, Ph.D., Texas A&M University
- 9:15am** ***Van transports participants to GRB 3rd Floor Training Laboratory***
- 9:30am** **Mouse biotechnology: Handling, restraint, IP and tail vein injection**
Jennifer Corrigan, M.S., and Kristin Cough, B.S., The Jackson Laboratory
- 12:00pm** **Lunch** (*GRB 3225 Conference Room*)

- 12:45pm** **Necropsy**
Stephanie Montgomery, Ph.D., DVM, University of North Carolina
- 2:45pm** **Break**
- 3:00pm** **Pathology review** (bring your own fixed slides for analysis)
Stephanie Montgomery, Ph.D., DVM, University of North Carolina
- 4:00pm** **Managing long-term cancer studies** (GRB 3225 Conference Room)
Selene Howe, B.S., Texas A & M University
- 4:30pm** **Role of environment in cancer modeling**
Danila Cuomo, M.S., Texas A & M University
- 5:00pm** **Van transports participants back to Highseas Conference Center**
- 6:00pm** **Dinner** (*Highseas 1st floor*)
- 7:00pm** **Pathology Exercise** (Highseas 3rd floor)
Stephanie Montgomery, Ph.D., DVM, University of North Carolina
- 7:30pm** **Tips on Good Specimen Sampling & Fixation**
Stephanie Montgomery, Ph.D., DVM, University of North Carolina

Tuesday, August 22, 2017

- 7:00am** **Breakfast** (*Highseas 1st floor*)
- 8:30am** **Models of Breast Cancer** (Highseas 3rd floor)
Amy Moser, Ph.D., University of Wisconsin
- 9:30am** **Mammary metastasis models and use of cancer cell lines**
Doug Hurst, Ph.D., University of Alabama at Birmingham
- 10:30am** ***Van transports participants to GRB 3rd Floor Training Laboratory***
- 10:45am** **Dissection of mammary glands, whole mount preparation, whole mount analysis**
Amy Moser, Ph.D., University of Wisconsin
Doug Hurst, Ph.D., University of Alabama at Birmingham
- 12:45pm** **Lunch – Roscoe’s**
- 1:30pm** **Mammary gland palpations, tumor and fat pad collection, lung collection, lymph node collection**
Amy Moser, Ph.D., University of Wisconsin
Doug Hurst, Ph.D., University of Alabama at Birmingham
- 3:30pm** **Break**

- 3:45pm** **Fat pad clearing for mammary cell transplantation, orthotopic injections into the mammary fat pad**
Amy Moser, Ph.D., University of Wisconsin
Doug Hurst, Ph.D., University of Alabama at Birmingham
- 5:15pm** **Van transports participants back to Highseas Conference Center**
- 6:00pm** **Dinner** (*Highseas 1st floor*)
- 7:00pm** **Models of colon cancer** (Highseas 3rd floor)
David Threadgill, Ph.D., Texas A&M University

Wednesday, August 23, 2017

- 7:00am** **Breakfast** (*Highseas 1st floor*)
- 8:30am** **Predicting colon polyp fate and response to therapy** (Highseas 3rd floor)
Richard Halberg, Ph.D., University of Wisconsin
- 9:30am** **Van transports participants to GRB 3rd Floor Training Laboratory**
- 9:45am** **Rotating Sessions**
Group 1: Endoscopy techniques
Group 2: Dissection and tumor quantification
David Threadgill, Ph.D. and Danila Cuomo, B.S., Selene Howe, B.S., Texas A & M University, Richard Halberg, Ph.D., and Chris Zahm, Ph.D., University of Wisconsin, Alyssa Leystra, Ph.D., Fox Chase Cancer Center
- 10:45am** **Switch Groups**
Group 2: Endoscopy techniques
Group 1: Dissection and tumor quantification
David Threadgill, Ph.D. and Danila Cuomo, B.S., Selene Howe, B.S., Texas A & M University, Richard Halberg, Ph.D., and Chris Zahm, Ph.D., University of Wisconsin, Alyssa Leystra, Ph.D., Fox Chase Cancer Center
- 11:45am** **Lunch – Roscoe’s**
- 12:45pm** **Organoid cultures and their utility** (GRB 3225 Conference Room)
Alyssa Leystra, Ph.D., Fox Chase Cancer Center
- 1:15pm** **Preparation of organoid cultures** (GRB 3245 Lab)
David Threadgill, Ph.D. and Danila Cuomo, B.S., Selene Howe, B.S., Texas A & M University, Richard Halberg, Ph.D., and Chris Zahm, Ph.D., University of Wisconsin, Alyssa Leystra, Ph.D., Fox Chase Cancer Center
- 6:00pm** **Dinner** (*Highseas 1st floor*)

Thursday, August 24, 2017

- 7:00am** **Breakfast** (*Highseas 1st floor*)
- 8:30am** **Models of Lung Cancer** (Highseas 3rd floor)
Katerina Politi, Ph.D., Yale University
- 9:30am** **Translational Value of Mouse Models of Lung Cancer**
Margie Clapper, Ph.D., Fox Chase Cancer Center
- 10:30am** ***Van transports participants to GRB 3rd Floor Training Laboratory***
- 10:45am** **Lung Preparation and Injections**
Margie Clapper, Ph.D., Fox Chase Cancer Center
Katerina Politi, Ph.D., Yale University
- 12:30pm** **Lunch – Roscoe’s**
- 1:30pm** **Immunotherapy** (GRB 3225 Conference Room)
Chris Zahm, Ph.D., University of Wisconsin
- 2:30pm** **Leukemia/Lymphoma techniques: lymph node dissection, spleen dissection and splenocyte isolation, bone marrow isolation** (GRB 3245 Lab)
Muneer Hasham, Ph.D., and Jane Branca, The Jackson Laboratory
- 4:30pm** **Introducing adenovirus into the colon**
TBA Texas, A&M University
- 5:30pm** ***Van transports participants back to Highseas Conference Center***
- 6:00pm** **Dinner** (*Highseas 1st floor*)
- 7:00pm** **Participant presentations** (Highseas 3rd floor)

Friday, August 25, 2017

- 7:00am** **Breakfast** (*Highseas 1st floor*)
- 8:00am** ***Van transports participants to GRB 3225 Conference Room***
- 8:15am** **Humanized Mice and PDX** (GRB 3225 Conference Room)
Brian Soper, Ph.D., The Jackson Laboratory
- 9:15am** **Break**
- 9:30am** **Xenografting (Subcutaneous PDX and kidney capsule)** (GRB 3245 Lab)
Bonnie Lyons, D.V.M., Jennifer Corrigan, M.S. and Andree Lapierre, B.S., The Jackson Laboratory

- 11:30am Break**
- 11:45am PDX data collection and analysis** (GRB 3225 Conference Room)
Joel Graber, Ph.D., The Jackson Laboratory (*invited*)
- 12:45pm Lunch – Roscoe’s**
- 1:30pm Models of prostate cancer** (GRB 3225 Conference Room)
Magdalena Grabowska, Ph.D., Case Western Reserve University
- 2:30pm Break**
- 2:45pm Prostate dissection, prostate injection and surgical orchiectomy** (GRB 3245 Lab)
Magdalena Grabowska, Ph.D., Case Western Reserve University
Jennifer Corrigan, M.S., The Jackson Laboratory
- 5:30pm *Van transports participants back to Highseas Conference Center***
- 6:00pm Dinner** (*Highseas 1st floor*)
- 7:00pm Participant presentations** (Highseas 3rd floor)

Saturday, August 26, 2017

- 6:00am Optional Hike**
- 9:00am Breakfast** (*Highseas 1st floor*)
- 11:30am *Van transports participants to JAX Main Lobby***
- 11:45am Rotating Sessions**
-Group 1 = Mouse Ultrasound Demo, CT and Xenogen Imaging (FGB 44) **
 Jennifer Ryan, B.S., The Jackson Laboratory
 Fred Roberts, B.S., VisualSonics, Inc.
 Selene Howe, B.S., Texas A & M University
-Group 2 = Lunch – Roscoe’s
- 1:00pm Switch Groups**
-Group 2 = Mouse Ultrasound Demo, CT and Xenogen Imaging (FGB 44) **
 Jennifer Ryan, B.S., The Jackson Laboratory
 Fred Roberts, B.S., VisualSonics, Inc.
 Selene Howe, B.S., Texas A & M University
-Group 1 = Lunch – Roscoe’s

**** IMPORTANT NOTE:** *The mouse ultrasound demo, the CT and Xenogen imaging lecture will take place behind a barrier area (FGB 44). In order to participate in these sessions, individuals must not have contact with rodents outside of The Jackson Laboratory for 5 days prior to this session. Additionally, individuals must shower prior to coming to The Jackson Laboratory on this day, wear laundered clothes*

and, as with all laboratory sessions, must wear socks, closed toe shoes and have no exposed skin below the waist.

2:15pm Break

2:30pm Brain cancer models (GRB 3225 Conference Room)
Raquel Sitcheran, Ph.D., Texas A & M Health Science Center

3:30pm Brain isolation, intracranial injection and perfusion (GRB 3245 Lab)
Raquel Sitcheran, Ph.D., Texas A & M Health Science Center
Jennifer Corrigan, M.S., The Jackson Laboratory

5:30pm Van transports participants back to Highseas Conference Center

6:00pm Dinner (*Highseas 1st floor*)

7:00pm Perspectives gained and needed (*Highseas 3rd floor*)

Sunday, August 27, 2017

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