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 biomethodology: 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 (Highsea 1st floor)

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

Sunday, August 27, 2017

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