

**GEORGE M O'BRIEN CENTER  
FOR ADVANCED RENAL MICROSCOPY AND ANALYSIS  
TENTATIVE COURSE SCHEDULE – April 10 – April14, 2017**

**MONDAY, April 10, 2017**

<b>7:30 am - 8:30 am</b>	<b>BREAKFAST – R2 Lobby</b>	<b>R2 Lobby</b>
8:30 am -9:20 am	<b>Overview: Advancing Nephrology through Intravital Imaging: Achievements and Challenges</b> Bruce Molitoris – Indiana Center for Biological Microscopy	R2 101
9:20 am -10:10 am	<b>Intravital Multiphoton Microscopy</b> Ken Dunn – Indiana Center for Biological Microscopy	R2 101
<b>10:10 am - 10:20 am</b>	<b>BREAK (10 minutes)</b>	<b>R2 Lobby</b>
10:20 am - 11:10 am	<b>Practical Intravital Imaging</b> Ruben Sandoval - Indiana Center for Biological Microscopy	R2 101
11:10 am - 12:00 pm	<b>Use of an Abdominal Imaging Window for Intravital Microscopy</b> Saskia Ellenbroek - Cancer Biophysics, Hubrecht Institute, Utrecht Netherlands	R2 101
<b>12:00 PM</b>	<b>LUNCH</b>	<b>R2 Lobby</b>
<b>12:30 pm - 1:00 pm</b>	Bruce Molitoris <b>Introduction to Workshops</b>	<b>R2 101</b>
<b>1:00 pm - 5:00pm</b>	<b>CONCURRENT WORKSHOP ACTIVITIES</b>	<b>R2 202</b>
1:00 pm – 2:45 pm	<b>Session 1</b>	
<b>2:45 pm - 3:15 pm</b>	<b>BREAK (30 minutes)</b>	
3:15 pm - 5:00 pm	<b>Session 2</b>	
<b>5:00pm - 6:00 pm</b>	<b>ROUND TABLE</b> Bruce Molitoris – Indiana Center for Biological Microscopy	<b>R2 101</b>
<b>6:00 pm - 7:00 pm</b>	<b>DINNER</b>	<b>R2 Lobby</b>
7:00 pm - 10:00 pm	<b>Individual projects by arrangement</b>	R2 202

**TUESDAY, April 11, 2017**

<b>7:30 am - 8:30 am</b>	<b>BREAKFAST</b>	<b>R2 Lobby</b>
8:30 am - 9:20 am	<b>Large Scale Deep Tissue Imaging and SPIM</b> Seth Winfree - Indiana University	R2 101
9:20 am - 10:10 am	<b>Use of Digital Image Analysis for Studies of Renal Physiology</b> Ed Delp – Purdue University	R2 101
<b>10:10 am - 10:20 am</b>	<b>BREAK (10 minutes)</b>	<b>R2 Lobby</b>
10:20 am - 11:10 am	<b>Fluorescent Proteins and Biosensors</b> Richard Day – Indiana University	R2 101
11:10 am - 12:00 pm	<b>Using Fluorescent Probes to Study Acute Kidney Injury</b> Pierre Dagher – Indiana University	R2 101
<b>12:00 -1 PM</b>	<b>LUNCH</b>	<b>R2 Lobby</b>
<b>1:00 pm - 5:00pm</b>	<b>CONCURRENT WORKSHOP ACTIVITIES</b>	<b>R2 202</b>
1:00 pm – 2:45pm	<b>Session 1</b>	
<b>2:45 pm - 3:15 pm</b>	<b>BREAK (30 minutes)</b>	
3:15 pm - 5:00 pm	<b>Session 2</b>	
<b>5:00pm - 6:00 pm</b>	<b>PLENARY LECTURE</b>	<b>R2 101</b>
	<b>Membrane Remodeling through Membrane Trafficking in Live Animals</b> Roberto Weigert – NCI-CCR	
<b>6:00 pm - 7:00 pm</b>	<b>DINNER</b>	<b>R2 Lobby</b>
7:00 pm - 10:00 pm	<b>Individual projects by arrangement</b>	R2 202

**WEDNESDAY, April 12, 2017**

<b>7:30 am - 8:30 am</b>	<b>BREAKFAST</b>	<b>R2 Lobby</b>
8:30 am - 9:20 am	<b>Expanding the Toolbox for Intravital Imaging of Kidney Using Gene Delivery Techniques</b> Robert Bacallao– Indiana University	R2 101
9:20 – 10:10 am	<b>Optimizing Microscope Design for Multiphoton Excitation Studies</b> Warren Zipfel - Cornell University	R2 101
<b>10:10 am - 10:20 am</b>	<b>BREAK (30 minutes)</b>	<b>R2 Lobby</b>
10:20 am - 11:10 am	<b>3D Visualization and Analysis</b> Jeffrey Clendenon - Aeon Imaging	R2 101
11:10 am - 12:00 pm	<b>Forster Resonance Energy Transfer Microscopy and Fluorescence Lifetime Microscopy</b> Richard Day - Indiana University	R2 101
<b>12:00 -1PM</b>	<b>Lunch</b>	<b>R2 Lobby</b>
<b>12:10 -1:00pm</b> (lecture during lunch)	<b>Applications of Micropuncture Techniques and Fluorescence Lifetime Imaging for Intravital Studies</b> Takashi Hato – Indiana University	R2 101
<b>1:00 pm - 5:00pm</b>	<b>CONCURRENT WORKSHOP ACTIVITIES</b>	<b>R2 202</b>
1:00 pm – 2:45pm	<b>Session 1</b>	
<b>2:45 pm - 3:15 pm</b>	<b>BREAK (15 minutes)</b>	
3:15 pm - 5:00 pm	<b>Session 2</b>	
<b>5:00pm - 6:00 pm</b>	<b>Round Table</b>	R2 101
<b>6:00pm - 7:00 pm</b>	<b>DINNER</b>	<b>R2 Lobby</b>

**THURSDAY, April 13, 2017**

<b>7:30 am - 8:30 am</b>	<b>BREAKFAST</b>	<b>R2 Lobby</b>
8:30 am - 9:20 am	<b>Using Fluorescent Probes to Study Tubule Metabolism</b> Tim Sutton – Indiana University	R2 101
9:20 am - 10:10 am	<b>Building Your Own 2-Photon Microscope: Challenges, Advantages and Limitations</b> Roberto Weigert – NCI-CCR	R2 101
11:10 am – 12:00 pm	<b>Writing a Shared Instrumentation Grant</b> Ken Dunn – Indiana University	R2 101
<b>12:00 -1PM</b>	<b>LUNCH</b>	<b>R2 Lobby</b>
<b>1:00 pm - 5:00pm</b>	<b>CONCURRENT WORKSHOP ACTIVITIES</b>	<b>R2 202</b>
1:00 pm – 2:45 pm	<b>Session 1</b>	
<b>2:45 pm - 3:15 pm</b>	<b>BREAK (30 minutes)</b>	
3:15 pm - 5:00 pm	<b>Session 2</b>	
<b>6:00 pm - 9:00 pm</b>	<b>DINNER</b>	

**FRIDAY, APRIL 14, 2017**

**Open to individual studies on the microscopes**

