GEORGE M O'BRIEN CENTER

FOR ADVANCED RENAL MICROSCOPY AND ANALYSIS

TENTATIVE COURSE SCHEDULE – April 10 – April 14, 2017

| MONDAY, April 10, 2017 | | | | | |
|-------------------------------|--|----------|--|--|--|
| 7:30 am - 8:30 am | BREAKFAST – R2 Lobby | | | | |
| 8:30 am -9:20 am | Overview: Advancing Nephrology through Intravital Imaging: Achievements and | | | | |
| | Challenges | R2 101 | | | |
| | Bruce Molitoris – Indiana Center for Biological Microscopy | | | | |
| 9:20 am -10:10 am | Intravital Multiphoton Microscopy | | | | |
| | Ken Dunn – Indiana Center for Biological Microscopy | | | | |
| 10:10 am - 10:20 am | BREAK (10 minutes) | R2 Lobby | | | |
| 10:20 am - 11:10 am | Practical Intravital Imaging | R2 101 | | | |
| | Ruben Sandoval - Indiana Center for Biological Microscopy | | | | |
| 11:10 am - 12:00 pm | Use of an Abdominal Imaging Window for Intravital Microscopy | | | | |
| | Saskia Ellenbroek - Cancer Biophysics, Hubrecht Institute, Utrecht Netherlands | R2 101 | | | |
| 12:00 PM | LUNCH | R2 Lobby | | | |
| 12:30 pm - 1:00 pm | Bruce Molitoris | | | | |
| | Introduction to Workshops | R2 101 | | | |
| 1:00 pm - 5:00pm | CONCURRENT WORKSHOP ACTIVITIES | R2 202 | | | |
| 1:00 pm – 2:45 pm | Session 1 | | | | |
| 2:45 pm - 3:15 pm | BREAK (30 minutes) | | | | |
| 3:15 pm - 5:00 pm | Session 2 | | | | |
| 5:00pm - 6:00 pm | ROUND TABLE | R2 101 | | | |
| | Bruce Molitoris – Indiana Center for Biological Microscopy | | | | |
| 6:00 pm - 7:00 pm | DINNER | R2 Lobby | | | |
| 7:00 pm - 10:00 pm | Individual projects by arrangement | R2 202 | | | |

| TUESDAY, April 11, 2017 7:30 am - 8:30 am | DDFAVEACT | DO Labb |
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| | BREAKFAST | R2 Lobby |
| 8:30 am - 9:20 am | Large Scale Deep Tissue Imaging and SPIM Tarek Ashkar - Indiana University | R2 101 |
| 9:20 am - 10:10 am | Use of Digital Image Analysis for Studies of Renal Physiology | R2 101 |
| 5.20 am 10.10 am | Ed Delp – Purdue University | |
| 10:10 am - 10:20 am | BREAK (10 minutes) | R2 Lobby |
| 10:20 am - 11:10 am | Fluorescent Proteins and Biosensors | R2 101 |
| | Richard Day – Indiana University | |
| 11:10 am - 12:00 pm | Using Fluorescent Probes to Study Acute Kidney Injury | R2 101 |
| | Pierre Dagher – Indiana University | |
| 12:00 -1 PM | LUNCH | R2 Lobby |
| 1:00 pm - 5:00pm | CONCURRENT WORKSHOP ACTIVITIES | R2 202 |
| 1:00 pm – 2:45pm | Session 1 | |
| 2:45 pm - 3:15 pm | BREAK (30 minutes) | |
| 3:15 pm - 5:00 pm | Session 2 | |
| 5:00pm - 6:00 pm | PLENARY LECTURE | R2 101 |
| | Membrane Remodeling through Membrane Trafficking in Live Animals | |
| | Roberto Weigert – NCI-CCR | |
| 6:00 pm - 7:00 pm | DINNER | R2 |
| | | Lobby |
| 7:00 pm - 10:00 pm | Individual projects by arrangement | R2 202 |
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| 7:30 am - 8:30 am | BREAKFAST | |
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| | Expending the Toolbox for Intravital Imaging of Kidney Using Gene Delivery | R2 101 |
| 3:30 am - 9:20 am | Techniques | |
| | Robert Bacallao– Indiana University | |
| 9:20 – 10:10 am | Optimizing Microscope Design for Multiphoton Excitation Studies | |
| | Warren Zipfel - Cornell University | |
| 10:10 am - 10:20 am | BREAK (30 minutes) | R2 Lobby |
| 10:20 am - 11:10 am | 3D Visualization and Analysis | R2 101 |
| | Jeffrey Clendenon - Aeon Imaging | |
| | Forster Resonance Energy Transfer Microscopy and Fluorescence Lifetime | R2 101 |
| 11:10 am - 12:00 pm | Microscopy | 101 |
| | Richard Day - Indiana University | |
| L2:00 -1PM | Lunch | R2 Lobby |
| 12:10 -1:00pm | Applications of Micropuncture Techniques and Fluorescence Lifetime Imaging for | D2 404 |
| lecture during lunch) | Intravital Studies | R2 101 |
| L:00 pm - 5:00pm | Takashi Hato – Indiana University CONCURRENT WORKSHOP ACTIVITIES | R2 202 |
| 1:00 pm – 3:45pm | Session 1 | NZ ZUZ |
| 2:45 pm - 3:15 pm | BREAK (15 minutes) | |
| 3:15 pm - 5:00 pm | Session 2 | |
| 5:00pm - 6:00 pm | Round Table | R2 101 |
| 6:00pm - 7:00 pm | DINNER | R2 Lobby |
| 7.00 pm | Divide. | NE LODDY |

| THURSDAY, April 13, 2017 | | |
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| 7:30 am - 8:30 am | BREAKFAST | R2 Lobby |
| 8:30 am - 9:20 am | Using Fluorescent Probes to Study Tubule Metabolism | |
| | Tim Sutton – Indiana University | |
| 9:20 am - 10:10 am | Building Your Own 2-Photon Microscope: Challenges, Advantages and Limitations | R2 101 |
| | Roberto Weigert – NCI-CCR | |
| 11:10 am – 12:00 pm | Writing a Shared Instrumentation Grant | R2 101 |
| | Ken Dunn – Indiana University | |
| 12:00 -1PM | LUNCH | R2 Lobby |
| 1:00 pm - 5:00pm | CONCURRENT WORKSHOP ACTIVITIES | R2 202 |
| 1:00 pm – 2:45 pm | Session 1 | |
| 2:45 pm - 3:15 pm | BREAK (30 minutes) | |
| 3:15 pm - 5:00 pm | Session 2 | |
| 6:00 pm - 9:00 pm | DINNER | |
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FRIDAY, APRIL 14, 2017

Open to individual studies on the microscopes