

2016 Advances in Renal Imaging Symposium

Tuesday, November 15, 2016

Welcome & Overview of Symposium (1:00 - 1:10 PM)

Bruce A. Molitoris, MD – *Division of Nephrology, Department of Medicine, Indiana University School of Medicine*

Anantha Shekhar, MD, PhD, *Executive Associate Dean for Research Affairs, Indiana University School of Medicine; Director - Indiana Clinical and Translational Sciences Institute (CTSI)*

Session 1 (1:10 - 3:10 PM) Session Topic: Need for advances in renal imaging/Potential targets for renal imaging (Chair: Bruce A. Molitoris, MD)

- Talk 1.1 *"Role of Renal Imaging in the Kidney Precision Medicine Initiative"* (Michael F. Flessner MD, PhD – NIDDK, NIH)
- Talk 1.2 *"Assessment of Renal Fibrosis Using Magnetization Transfer MRI"* (Lilach O. Lerman, MD, PhD – Mayo Clinic)
- Talk 1.3 *"The Use of Cationic Ferritin to Quantify Glomeruli In Vivo"* (Jennifer R. Charlton, MD - University of Virginia)

Break (3:10 - 3:30)

Session 2 (3:30 - 5:30 PM) Session Topic: "Advances in in vivo microscopy: extending the reach of renal imaging" (Chair: Kenneth W. Dunn, PhD)

- Talk 2.1 *"Twice as good? Aspirational and Practical Aspects of Two-Photon Microscopy In Vivo"* (David W. Piston, PhD - Washington University in St. Louis)
- Talk 2.2 *"Label-free Optical Micro Imaging towards in vivo and in situ Assessment of Tissue Histology"* (Xingde Li, PhD - Johns Hopkins University)
- Talk 2.3 *"Intravital Fluorescence Lifetime Imaging Microscopy (FLIM): An Additional Dimension for Imaging Physiology"* (Richard N. Day, PhD - Indiana University)

Reception/Poster session (5:30 - 6:30 PM)

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Continental Breakfast (8:00 - 8:30 AM)

Session 3 (8:30 - 10:30 AM) Session Topic: Advances in molecular, perfusion, structural, ... renal imaging. (Co-chairs: Gary D. Hutchins, PhD & Mark R. Holland, PhD)

- Talk 3.1 *"Renal and Urinary Tract Imaging: Classic Approaches and Future Outlook"* (Brian S. Garra, MD - Washington DC VA Medical Center & FDA DIAM)
- Talk 3.2 *"Molecular Magnetic Resonance Imaging of Renal Fibrogenesis"* (Peter Caravan, PhD – Massachusetts General Hospital and Harvard Medical School)
- Talk 3.3 *"Nanotechnologies for Diagnosis and Therapy of Acute Kidney Injury"* (Samuel A. Wickline, MD - Washington University in St. Louis)