IUPUI IMAGING RESEARCH SYMPOSIUM – 2013

Wednesday, October 9, 2013
IUPUI University Library, Lilly Auditorium
10:00am – 4:30pm

Welcome & Introductory Remarks
10:00 - 10:10 AM  Gary D. Hutchins, PhD
                  (Chair, Imaging Research Initiative Council)

                  Kody Varahramyan, PhD
                  (IUPUI Vice Chancellor for Research)

IUPUI Imaging Resources (Moderator: Mark R. Holland, PhD)
10:10 - 10:30 AM  Gary D. Hutchins, PhD  “Indiana Institute for Biomedical Imaging Sciences”
10:30 - 10:50 AM  Kenneth W. Dunn, PhD  “Indiana Center for Biological Microscopy”
10:50 - 11:10 AM  Christoph A. Naumann, PhD  “Nanoscale Imaging Center”
11:10 - 11:30 AM  Katherine S. Kula, MS, DMD, MS  “Three-Dimensional Imaging of the Craniofacial Complex Center”
11:30 - 11:50 AM  Vincent H. Gattone II, PhD  “Electron Microscopy Center”

11:50AM -1:30 PM  Lunch and Poster Viewing  (Lilly Auditorium Lobby)

Invited Speakers (Moderator: Gary D. Hutchins, PhD)
1:30 - 2:15 PM  Daniel C. Sullivan, MD  “Quantitative Imaging in Medicine”
                 (Duke University Medical Center)
2:15 - 3:00 PM  Andrew J. Bowling, PhD  “Imaging & Crop Development”
                 (Dow AgroSciences, Indianapolis)

3:00 - 4:30 PM  IUPUI Imaging Laboratory Tours
Guided tours through several IUPUI imaging laboratories will be available. Limited capacity – please sign up during Lunch & Poster Viewing time.
2013 IUPUI Imaging Research Symposium Posters

IUPUI Imaging Resources:

1. “IUPUI Imaging Research Initiative”, Mark R. Holland, Gary D. Hutchins
2. “IIBIS Research Development Initiative (RDI) Provides Funding Opportunities for IIBIS Core Services”, Courtney R. Robbins, Gary D. Hutchins
3. “Indiana Center for Biological Microscopy”, Ken Dunn, Malgorzata Kamocka and Seth Winfree
4. “Electron Microscopy Center”, Caroline A. Miller and Vincent H. Gattone II
33. “Possibilities and Challenges of Small Animal Imaging on a 3T Clinical MRI System”, Chen Lin, Jun Xu, Paul R. Territo and Gary D. Hutchins (ePoster)

Cancer Imaging:

7. “Performance of a 62Zn/62Cu Parent/Daughter Generator System, and a Kit-Based Radiopharmaceutical Synthesis Method, for PET Imaging with 62Cu”, Yen Ng, Carla J. Mathias, Jeffrey Lacy,* and Mark A. Green
8. “Preparation of 68Ga-DOTA-NOC for Somatostatin-Receptor-Targeted PET/CT Tumor Imaging Under an Expanded Access IND”, Mark A. Green, Carla J. Mathias, and James W. Fletcher
30. “Clinical Evaluation of Breast DCE-MRI with TWIST-Dixon Sequence”, Yuan Le, Randall Kroeker, Hal D. Kipfer, Shadie S. Majidi, Stephanie Holz, Brian Dale, Chen Lin (ePoster)
31. “Comparison of Artifacts Caused by Biopsy Markers on Breast MRI with Different Fat Suppression Techniques”, Yuan Le, Hal D. Kipfer, Shadie S. Majidi, Stephanie Holz, Chen Lin (ePoster)
32. “The Impact of Dixon Fat Suppression on Liver T1 and DCE Perfusion Quantification” Yuan Le, Fatih Akisik, Brian Dale, Karen Koons, Chen Lin (ePoster)

Cardiovascular & Pulmonary Imaging:

12. “Pulmonary Nodule CAD as a Second Reader: Influence on Radiology Residents”, George Trilikis & Shawn Teague

Cellular Imaging:

5. “Imaging the HP1a Protein Interaction Network Inside Living Cells”, Amanda Siegel, Nicole Hays and Richard N. Day
Craniofacial Imaging:


Neuroimaging:


Remote Sensing:

18. “Relating Socio-Spatial Variations to Heat Induced Mortality in Chicago, IL During the 1995 Extreme Heat Event”, Austin Stanforth, Jeremy Webber, Dan Johnson, and Vijay Lulla

19. “Urban Tree Canopy and Plantable Space Within NESCO”, Dan Johnson, Steven M. King, Nan Ye, and Amanda Kabat

20. “IUPUI Campus Tree Canopy 2012”, Dan Johnson, Steven M. King, Nan Ye, and Amanda Kabat


Signal & Image Processing:


10. “Enhanced Non-Rigid Registration for Motion Artifact Reduction Within Microscopy Volumes”, Kevin S. Lorenz, Paul Salama, Kenneth W. Dunn, and Edward J. Delp

11. “Extracting Models from Biological Data”, Steve Pressé

29. “Autostereoscopic 3D Imaging for Bronchoscopy and Neurosurgery, Research in Imaging Methods and New Cameras”, Lauren A. Christopher (ePoster)