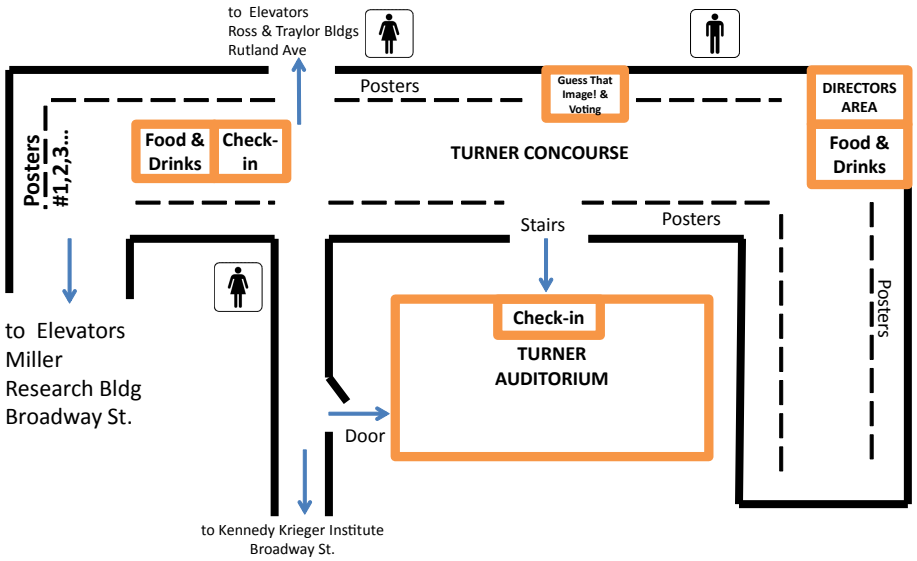
Map of Turner Concourse: Poster Presentation Happy Hour



HOPKINS IMAGING INITIATIVE (HI^2) *http://imaging.jhu.edu*

A collaborative resource for all imaging researchers affiliated with Johns Hopkins University. Featuring engineering and clinical classes, opportunities to volunteer for an imaging study, short online imaging tutorials on basic concepts, seminars with informal chalk-talks, researcher profiles, community outreach, and more!

CONFERENCE AWARDS

Best Posters: *1st place $100, 2nd place $75, 3rd place $50*

"Guess That Image!" Competition: *Identify the most images for a chance at a prize.*

New this Year: *The three highest scoring proffered abstracts are invited to give an oral presentation and receive a $125 prize.*

ACKNOWLEDGEMENTS

Funding

Training Program for Translational Imaging (TPTRI): *http://imagingtraining.jhu.edu*

Department of Biomedical Engineering (BME): *http://www.bme.jhu.edu*

Homewood Graduate Representative Organization (GRO): *http://gro.jhu.edu*

Resources

Dr. Elliot McVeigh and Dr. Jeff Siewerdsen

Joyce Bankert, Melanie Mossman, and the Turner staff

Abstract reviewers and poster judges

BME department, LCSR, and BCMB department for the loan of their easels & poster boards.

HOPKINS IMAGING CONFERENCE PLANNING COMMITTEE

Director: *Steven Tilley II*

Organizers*: Bradley Harden, Jaymin Patel, Jennifer Xu, Kwame Kutten, Lindsay Wendel*

Volunteers: *Hao Dang (Photography), Guan Wang (Graphics Design), Fay Wong (Outreach)*

Hopkins Imaging Initiative

http://imaging.jhu.edu

21 November 2013

Turner Building: 720 Rutland Ave

Johns Hopkins Hospital

East Baltimore Campus

The Third Annual Hopkins Imaging Conference

10:00am - 10:15am: Turner Auditorium: Opening Remarks

"Introduction to Imaging Research"

Elliot McVeigh, PhD: Massey Professor, Director, Biomedical Engineering

10:15pm - 12:40pm: Turner Auditorium: Lectures Session I

10:15pm: "The Diagnosis and Treatment of Atherosclerosis"

Zahi Fayad, PhD: Director, Translational and Molecular Imaging Institute, Icahn School of Medicine, Mt. Sinai Hospital

10:55am: "Using Optical Microscopy to Understand the Cellular and Molecular Basis of Disease Processes"

Andrew Ewald, PhD: Assistant Professor, Department of Cell Biology, JHU

11:35am: "MR guided Sclerotherapy of Low Flow Vascular Malformtions Using T2-weighted Interrupted bSSFP"

Di Xu, Proffered Presentation

12:00pm: "Computer Vision Methods in Surgery and Neuroimaging"

Rene Vidal, PhD: Director, Vision Dynamics and Learning Lab, Associate Professor, Department of BME, CS, and ECE, JHU

12:40pm - 3:00pm: Turner Concourse: Poster Session & Happy Hour

3:00pm - 6:00pm: Turner Auditorium: Lectures Session II

3:00pm: "Relationships between Quantitative Spinal Cord MRI and Retinal Layers in Multiple Sclerosis"

Jiwon Oh, Proffered Presentation

3:25pm: "Siemens and Medical Imaging"

James Williams, PhD: CEO, Business Unit Molecular Imaging, Siemens Healthcare

4:05pm: "Three Decades of CNS Molecular PET/SPECT Imaging of Preclinical and Human Neuropsychopharmacology"

Dean Wong, MD, PhD: Director, Section of High Resolution Brain PET Imaging, Division of Nuclear Medicine.

4:45pm: "Cerenkov Molecular Imaging: Bench to Bedside and Back"

Daniel Thorek, Proffered Presentation

5:10pm: "Super-Resolution Fluorescence Microscopy: the Small and the Big"

Scot Kuo, PhD: Director, School of Medicine Microscope Facility, Associate Professor, BME & Cell Biology, JHU

6:00pm: Turner Concourse: Awards and Concluding Remarks

Concluding remarks from the Hopkins Imaging Initiative.

Poster session awards will be handed out at this time.

#	Title of Poster. [*Corresponding Author*]	#	Title of Poster. [*Corresponding Author*]
1	Robust Iterative Most Likely Point Registration. [Seth Billings]	32	Using Phantom Imaging Data to Improve Estimation in Multi-Center Longitudinal Studies. [Jaroslaw Harezlak]
2	Medial Temporal Lobe Changes Preceding Symptom Onset of Mild Cognitive Impairment: the BIOCARD Study. [Timothy Brown]	33	Signal detection in diffuse optical tomography: An ideal-observer framework. [Abhinav Jha]
3	Direct three-dimensional ultrasound to video registration using photoacoustic markers. [Alexis Cheng]	34	Information content of LM scattered-photon data in SPECT for joint estimation of activity and attenuation distribution. [Abhinav Jha]
4	To be Announced. [Michael Corvelli]	35	Whole-body parametric PET imaging using direct 4D nested reconstruction. [Nikolaos Karakatsanis]
5	Sterile Manipulation Image Viewer in the Operating Room. [Sandra DiBrito]	36	Enhancing Islet Transplantation Using Fluorocapsules and Fibrin. [Mangesh Kulkarni]
6	Quantitative T2 mapping Visualizing Hemorrhage and Edema after Acute Myocardial Infarction in Swine. [Haiyan Ding]	37	Dependence of the in-plane Modulation Transfer Function on Acquisition Geometry and Reconstruction Parameters in Tomosynthesis. [Brian Lee]
7	Evaluation of Sinogram Affirmed Iterative Reconstruction using the XCAT phantom in a Model Observer Study. [Fatma Elshahaby]	38	Multiframe Blind Deconvolution of Atmospherically Distorted Images. [Matthias Lee]
8	Simultaneous T2 Prep and Motion Tracking Using Volume Projections in MRI. [Liheng Guo]	39	Effect of Noise Level, Administered Activity and Body Habitus on Detection of Renal Function Defect in Pediatric Diagnostic Imaging of 99mTc-Dimercaptosuccinic Acid. [Taek-Soo Lee]
9	Localizing Surgical Tools with an Ultrasound-based Active Reflector Tracking System. [Xiaoyu Guo]	40	Fiber-Optic Multiphoton Endomicroscopy for Translational Imaging of Biological Tissues. [Wenxuan Liang]
10	Modeling Heart Motion Using Muscle Fiber Orientation. [Saurabh Jain]	41	Quantitative T1 Map Estimation using Clinical MR Images. [Amanda Mejia]
11	Freehand Spatial-Angular Compounding of Photoacoustic Images. [Hyun Jae Kang]	42	Parametric Myocardial Perfusion PET Imaging using Physiological Clustering. [Hassan Mohy-ud-Din]
12	BrainCloud: A Clinical Database for High-Throughput Imaging Neuroinformatics. [Kwame Kutten]	43	Joint Estimation of Tissue Types and Linear Attenuation Coefficients for Photon Counting CT. [Kento Nakada]
13	Geodesic Volumetry of Temporal Lobe Structures in Preclinical Alzheimer's Disease. [David Lee]	44	In vivo two-photon imaging of cortico-cerebellar mossy fiber synapses: structural and functional properties. [Daria Rylkova]
14	Assessing tumor vasculature using a liposomal CT/MRI bimodal contrast agent. [Yuguo Li]	45	Automated Measurement of Nerve Fiber Density Using Line Intensity Scan Analysis. [Aaron Sathyanesan]
15	A Statistical Approach to Archaeological Surveys Using Remotely Sensed Data. [Zachary Lubberts]	46	Rotation Invariant Features for HARDI. [Evan Schwab]
16	Coupling of Excitable Signaling and Oscillatory Cytoskeletal Networks Mediates Cell Migration. [Ming Tang]	47	19F MR Assessment of Inflammation and Subsequent Tumor Growth in Murine Model of Inflammatory Bowel Disease. [Soo Hyun Shin]
17	Detecting occlusion inside the ventricular catheter using photoacoustic imaging. [Behnoosh Tavakoli]	48	Automatic Annotation of Axoplasmic Reticula in Pursuit of Connectomes using High-Resolution Neural EM Data. [Ayushi Sinha]
18	Bayesian Image Matching via Momentum-Conserved Diffeomorphic Mapping. [Daniel Tward]	49	A comparison of supervised machine learning algorithms and feature vectors for MS lesion segmentation using multimodal structural MRI. [Elizabeth Sweeney]
19	Quantitative 19F MRI and CT tracking of the Microencapsulated Stem Cells in Peripheral Arterial Disease Model. [Guan Wang]	50	Tracking spontaneous recovery of digit individuation after stroke with a novel task and multivariate functional imaging. [Jing Xu]
20	89Zr-Radiolabeled For Quantitative and Longitudinal PET Imaging of Immune Cell Trafficking. [Diane Abou]	51	Empirical Bayesian Estimation Improves Analysis of Task and Resting-State Multi-Echo BOLD fMRI. [Feng Xu]
21	Calibration Methods for Improving Ultrasound Driven Image Guided Surgery. [Martin Ackerman]	52	Cerebellar shape analysis for cerebellar ataxia classification and functional score prediction. [Zhen Yang]
22	Coherence-based Beamforming of Ultrasound and Photoacoustic Data. [Muyinatu Bell]	53	Parametrization of white matter manifold-like structures using principal surfaces. [Chen Yue]
23	Compartment Specific Redox Changes in Menkes Disease Fibroblasts. [Ashima Bhattacharjee]	54	Hyperpolarization of drugs using signal amplification by reversible exchange (SABRE). [Haifeng Zeng]
24	Evaluation of CT image reconstruction algorithms using a biological phantom. [Jochen Cammin]	55	Spectroscopy with linear algebraic modeling (SLAM): speed and quantification in brain tumor studies. [Yi Zhang]
25	Standardization and optimization in 18F-AV45 PET with MRI for quantitative beta-amyloid brain imaging. [Haoyin Cao]	56	The effect of reward dependence and impulsivity and their underlying fronto-striatal circuitry on nicotine addiction. [Moxi Zhou]
26	A trimodality BLI-CT-MRI imaging platform for cell tracking in vivo. [Moussa Chehade]	57	Retrodeformation of an Oligocene (33mya) skull of Parapithecus grangeri (Primates: Parapithecidae) using CT imaging. [Heather Kristjanson]
27	Maximum likelihood based joint 4D motion vector field estimation and image reconstruction in 4D PET. [Tao Feng]	58	X-Ray-Visible Transmyocardial CatheterBased Microencapsulated Mesenchymal Stem Cell Delivery for Cardiac Regenerative Therapy. [Charles Hu]
28	High-resolution, three-dimensional microscopy of enteric nervous system. [Ya-Yuan Fu]	59	An Interventricular Sulcus Guided Cardiac Motion Estimation Method. [Jizhe Wang]
29	Task-Based Imaging Performance in 3D X-Ray Tomography: Noise, Detectability, and Implications for System Design. [Grace Gang]	60	Improved PET Imaging Task Performance through Partial Resolution Modeling. [Saeed Ashrafinia]
30	To differentiate dopaminiergic from noradrenergic responses of stimulants. [Noble George]	61	Localized High Spatial and Angular Resolution Diffusion MRI of the Live Mouse Brain. [Dan Wu]
31	Spatial analysis of relapse in Myocbacterium tuberculosis-infected mice using co-registered PET and CT imaging. [Saumya Gurbani]	62	Stem Cell Delivery to the Central Nervous System in Small and Large Animals; Tracking Cells on a Time Scale of Seconds Using GE-EPI Sequence. [Miroslaw Janowski]