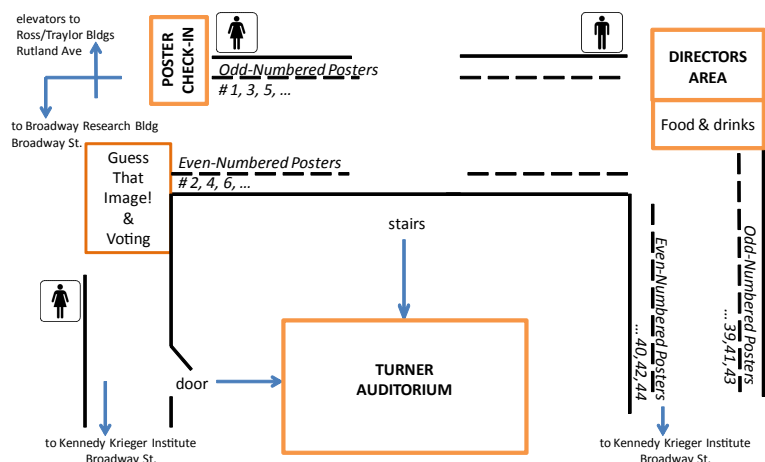


## Map of Turner Concourse: Poster Presentation Happy Hour



Questions? Ask a volunteer with a red name tag or go to the Directors Area.

### HOPKINS IMAGING INITIATIVE (HI<sup>2</sup>)

<http://imaging.jhu.edu>

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

### CONFERENCE AWARDS

- Best Posters: 1st place \$400, 2nd place \$300, 3rd place \$200, 4th place \$100
- Peer Choice: Vote for your favorite posters! Fill in your ballots (inside this program) with your three favorite posters and turn in to the voting table at the end of the poster session.
- Power PI: Congratulations to Dr. Daniel Herzka for having the most abstracts!
- "Guess That Image!" Competition: Identify the most images for a chance at a \$50 prize.
- Registrant Raffle: Awarded to a pre-registrant at the Awards Ceremony.

### 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>

#### Special thanks to:

- Dr. Elliot McVeigh, Joyce Bankert, the Turner staff, and abstract reviewers and poster judges
- BME department, LCSR, and BCMB department for the loan of their easels and posters
- Issel Anne Lim for her expertise and transfer of knowledge

### HOPKINS IMAGING CONFERENCE PLANNING COMMITTEE

Director: Lindsay Wendel

MC: Jennifer Xu

Organizers: Geran Kosteci, Bradley Harden, Jaymin Patel, Kwame Kuttan, Di Xu

Volunteers: Hao Dang, Elizabeth Postell, Shiva Razavi, Grace Gang, Liheng Guo, Janaka Senarathna, Alan Huang

# Hopkins Imaging Initiative

<http://imaging.jhu.edu>

16 November 2012

Turner Building: 720 Rutland Ave  
Johns Hopkins Hospital  
East Baltimore Campus

## The Second Annual Hopkins Imaging Conference

### 1:00pm - 1:15pm: Turner Auditorium: Introductory Lecture

- "The Hopkins Imaging Initiative: A Collaborative Resource for Imaging Researchers"  
Lindsay Wendel, on behalf of The Hopkins Imaging Initiative
- "Introduction to Imaging Research"  
Elliot McVeigh, PhD: Massey Professor, Director, Biomedical Engineering

### 1:20pm - 3:00pm: Turner Auditorium: Lectures Session I

- 1:20pm: "Measuring, Monitoring, and Manipulating Morphogenesis with Light"  
Denise Montell, PhD: Professor and Director, Department of Biological Chemistry  
Director, Center for Cell Dynamics
- 1:55pm: "FINCH holographic super-resolution fluorescence microscopy"  
Gary Brooker, PhD: Research Professor, Biomedical Engineering  
Microscopy Center, Montgomery County Campus, JHU
- 2:30pm: "Quantitative Endoscopy"  
Gregory Hager, PhD: Professor, Computer Science  
Director, Computational Interaction and Robotics Lab

### 3:10pm - 4:10pm: Turner Concourse: Poster Presentation Happy Hour

Vote for your favorite posters and enjoy light refreshments!

### 4:20pm - 6:00pm: Turner Auditorium: Lectures Session II

- 4:20pm: "Advanced Magnetic Resonance Data Acquisition and Analysis for Neuroimaging"  
Susumu Mori, PhD: Professor, Department of Radiology  
F.M. Kirby Research Center for Functional Brain Imaging, KKI
- 4:55pm: "Quantitative Single Photon Emission Computed Tomography and Applications to Radiopharmaceutical Therapy Treatment Planning"  
Eric Frey, PhD: Professor, Department of Radiology, EHS, ECE  
Division of Medical Imaging Physics
- 5:30pm: "Next Generation X-Ray CT"  
Katsuyuki (Ken) Taguchi, PhD: Associate Professor, Department of Radiology  
Division of Medical Imaging Physics

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

Concluding remarks from the Hopkins Imaging Initiative.  
Poster session awards will be announced at this time.



Conference  
Website  
QR Code

Join Our



Mailing  
List

Conference  
Posters  
QR Code



Poster #	Title of Poster. [Corresponding Author]
1	MR-Guided Sclerotherapy: Intra-procedural Visualization Vascular Malformations using Contrast-Prepared SSFP. [Di Xu]
3	Genetic Variation in CYP450 Alters Human Brain Function. [Jeran Trangle]
5	Frequency and Susceptibility Mapping in the Spinal Cord with WASSR at 3 Tesla. [Jssel Anne Lim]
7	A Papillary Muscle Guided Motion Estimation Method for Gated Cardiac Imaging. [Jizhe Wang]
9	Evaluation of Image-Derived and Arterial Blood sampled Input Functions for PET Imaging of the Angiotensin II Subtype I Receptor. [Tao Feng]
11	Navigator-Free Self-Gated Dynamic Cine Imaging Using 2D Cartesian Golden Step Phase Encoding. [Liheng Guo]
13	Interventional MRI Using a Transmit/Receive Loopless Antenna at 7 Tesla. [Mehmet Arcan Erturk]
15	Resting State Preprocessing and Motion Artifacts. [John Muschelli]
17	Spectral Response Compensation for Photon Counting X-ray CT and Application to Coronary Vulnerable Plaque Detection. [Jochen Cammin]
19	Cortical thickness differences in Heschl's gyrus of hearing impaired and normal hearing infants. [Daniel Tward]
21	DXA Material Decomposition from a Limited Number of Projections. [Alia Khaled]
23	Motion correction in intravascular MRI using projection reconstruction. [Shashank Hegde]
25	Motivational Saliency Signal in Ventral Striatum is Modulated by Genetic Variation in the ARC Gene Region. [Caroline Zink]
27	Developmental Changes in Cognitive Control and Network Connectivity. [Anita Barber]
29	OASIS is Automated Statistical Inference for Segmentation with applications to multiple sclerosis lesion segmentation in MRI. [Elizabeth Sweeney]
31	Collimator Optimization in Myocardial Perfusion SPECT. [Michael Ghaly]
33	A RAT EAE Model by Opening the BBB using VEGF. [Jasper Chen]
35	Molecular CEST Imaging of Tumor Cells Expressing Underglycosylated MUC-1. [Xiaolei Song]
37	Towards Truly Quiet MRI: An Animal Scale Gradient Test Platform for Acoustic Noise Reduction. [Abdel-Monem El-Sharkawy]
39	Regional Cardiac Function Estimation From Ultra-Low Dose CT Acquisitions Using Iterative Model-based Image Reconstruction: A Phantom Study. [Amir Pourmorteza]
41	Evaluation of CT Reconstruction Methods using the XCAT phantom and Model Observer Studies. [Fatma ElShahaby]
43	Automated Quality Assessment for Structural Magnetic Resonance Brain Images. [Xi Cheng]
	Analysis and methodology for novel cone beam projection x-ray cineradiography. [Mark Mentzer] - Not presenting

Poster #	Title of Poster. [Corresponding Author]
2	High Contrast, High Resolution Imaging With Non-Redundant Mask Interferometry. [Alexandra Greenbaum]
4	Homotopic Group ICA. [Juemin Yang]
6	Left-Lateralized Increases in Diffusivity in Autism Spectrum Disorder. [Daniel Peterson]
8	High-Throughput Microfluidic Preparation of Imaging-Visible Embolic Beads. [Cyrus Beh]
10	MR T2 mapping enables hemorrhage visualization after acute myocardial infarction in swine. [Daniel Herzka]
12	Changes in Resting Connectivity between Functional Networks in a Patient with Significant Recovery from Complete Cervical Spinal Cord Injury. [Ann Choe]
14	Development and Evaluation of Collimator-Detector Response Compensation Method for Multi-pinhole Small Animal SPECT. [Yinfeng Dong]
16	Cardiac function analysis with four dimensional CT image. [Qiulin Tang]
18	Tolcapone modulates the connectivity strength of brain regions. [Daniel Weinberger]
20	Shape Analysis of Hippocampus and Amygdala in BIOCARD Cohort Study. [Thomas Reigel]
22	The asymmetric partitioning of mTORC1 activity during cell division facilitates CD8+ effector vs memory T cell generation. [Jonathan Powell]
24	Automatic Cell Counting Using Fiber-Optic Fluorescence Endomicroscope. [Jaepyeong Cha]
26	Joint Deformation Estimation and Penalized-Likelihood CT Reconstruction using Previously Acquired Studies. [Hao Dang]
28	Effects of Working Memory Maintenance on Neural Mechanisms of Motor Response Selection and Control. [Stewart Mostofsky]
30	Eddy-current-induced Artifact Suppression for b-SSFP via Through-slice Dephasing. [Ozan Sayin]
32	3D Quantitative T2 Mapping in the Human Heart. [Daniel Herzka]
34	3D Determination of Area-at-Risk in Acute Myocardial Infarction. [Daniel Herzka]
36	Optimization and Evaluation of Compensation Methods and Reconstruction Parameters for Tc-99m MIBI Parathyroid SPECT. [Tawatchai Ekjeen]
38	Association between Anomalous Brain Development and Motor Control in Autism. [B. Dirlikov]
40	Generation of Realistic Simultaneous Cardiac and Respiratory Gated SPECT Datasets Using the 4D XCAT Phantom and Mote Carlo Simulation. [Taek-Soo Lee]
42	A Miniaturized Platform for Laser Speckle Contrast Imaging. [Janaka Senarathna]
44	3D High-Resolution Diffusion Tensor Imaging of Heart ex-vivo after Myocardial Infarction. [Farhad Pashakhanloo]