

# TBIC

## 2017 Awardees

### **“Designing and Testing a multi-parametric MRI protocol for independently measuring hepatic inflammation in patients with non-alcoholic steatohepatitis”**

Anil Chauhan, MD, Asst. Professor of Radiology  
Vandana Khungar, MD, Asst. Professor of Medicine

### **“Advanced motion correction for structural MRI-based biomarkers in prodromal and early-stage Huntington’s disease”**

Matthew Tisdall,  
Ipek Oguz, PhD, Research Associate  
Pedro Gonzalez-Alegre, MD, PhD, Associate Professor of Neurology

### **“Preeclampsia and Risk of Cardiac Dysfunction”**

Lisa Levine, MD, MSCE, Asst. Professor of Obstetrics and Gynecology  
Bonnie Ky, MD, MSCE, Asst. Professor of Medicine and Epidemiology

### **“Regional Placental T2 Mapping and Measurement of Oxygen Delivery Rate to the Fetus in Normal and Compromised Pregnancies”**

Michael Langham, PhD, Research Asst. Professor  
Nadav Schwartz, MD, Clinical Director, Maternal Fetal Medicine

### **“Vessel wall imaging and oxygen metabolism in patients with sickle cell anemia with and without infarction”**

Seyed Nabavizadeh, MD, Asst. Professor of Radiology  
Felix Wehrli, PhD, Professor of Radiologic Science, Biochemistry, and Biophysics  
Ronald Wolf, MD, PhD, Assoc. Professor of Radiology  
Robert Hurst, MD, Professor of Radiology and Director of Interventional Neuroradiology  
Arastoo Vossough-Modarress, MD, PhD, Assoc. Professor of Radiology  
Janet Kwiatkowski, MD, MSCE, Assoc. Professor of Pediatrics

### **“In vivo surrogate markers of clinically-relevant molecular characteristics of glioblastoma, based on multivariate machine learning and clinically-acquired MRI”**

Christos Davatzikos, PhD, Professor of Radiology and Electrical and Systems Engineering  
Constantinos Koumenis, PhD, Professor of Radiation Oncology  
Donald O’Rourke, MD, Assoc. Professor of Neurosurgery and Pathology and Laboratory Medicine

### **“Magnetic Resonance Imaging Analysis and Neurocognitive Function in Adolescents with Graves’ Disease”**

Andrew Bauer, MD, Assoc. Professor of Pediatrics & Director, The Thyroid Center  
Jeffrey Berman, PhD, Research Asst. Professor of Radiology

### **“Smart Nearinfrared Fluorophores for Intraoperative Detection of Lung Tumor Margins”**

Edward Delikatny, PhD, Research Professor of Radiology

David Holt, BVSc, Professor of Surgery  
Sunil Singhal, MD, Assoc. Professor of Surgery

## **2016 Awardees**

### **“Predicting Adriamycin and Trastuzumab Induced Heart Failure by PET Probe of Oxidative Stress”**

Rong Zhou, PhD, Associate Professor of Radiology  
Bonnie Ky, MD, MSCE, Asst. Professor of Medicine and Epidemiology

### **“Assessing response to bone-directed alpha particle therapy in castrate resistant prostate cancer using C-11 acetate”**

Daniel Pryma, MD, Associate Professor of Radiation Oncology  
John Christodouleas, MD, MPH, Adjunct Asst. Professor of Radiation Oncology

### **“Calibrated BOLD MRI for the Study of Neurometabolism in Obstructive Sleep Apnea”**

Felix Wehrli, PhD, Professor of Radiologic Science, Biochemistry, and Biophysics  
John Detre, MD, Professor of Neurology  
Richard Schwab, MD, Professor of Medicine

### **“Acoustic Radiation Forced Impulse Shear Wave Velocity for Clinical Hernia Risk Prediction”**

John Fischer, MD, Assistant Professor of Surgery and Director of Clinical Research (Plastic Surgery)  
James Gee, PhD, Assoc. Professor of Radiologic Science and Computer and Information Science  
Anil Chauhan, MD, Asst. Professor of Radiology

### **“AUTOMATED CHOROIDAL ASSESSMENT USING ENHANCED DEPTH IMAGING BASED OPTICAL COHERENCE TOMOGRAPHY (EDI-OCT)”**

James Gee, PhD, Assoc. Professor of Radiologic Science and Computer and Information Science  
Brian VanderBeek, MD, MPH, Asst. Professor of Ophthalmology

### **“Catalytic nanoparticles for the assessment of PD-1 tumor markers via optical imaging”**

David Cormode, DPhil, Asst. Professor of Radiology  
E. John Wherry, PhD, Professor of Microbiology

### **“Acetate PET as a marker of amyloid-induced neuroinflammation”**

Ilya Nasrallah, MD, PhD, Assistant Professor of Radiology  
Yvette Sheline, MD, Professor of Psychiatry, Radiology, and Neurology

### **“Watching brain injury unfold in real time: in vivo 2-photon imaging of brain activity, inflammation, and neural circuit reorganization after acute brain insults”**

Ramani Balu, MD, PhD, Instructor in Neurology  
Ethan Goldberg, MD, PhD, Assistant Professor of Neurology

### **“QUANTITATIVE MUSCULOSKELETAL IMAGING GENETICS”**

Ronnie Sebro, MD, PhD, Asst. Professor of Radiology  
Sarah Tishkoff, PhD, David and Lyn Silfen University Professor  
Paul Yushkevich, PhD, Assoc. Professor of Radiology

**“Utilizing Novel 3-Dimensional GluCEST Method to Identify the Seizure Focus”**

Kathryn Davis, MD, MTR, Asst. Professor of Neurology

Joel Stein, MD, PhD, Asst. Professor of Radiology

Sandhitsu Das, PhD, Research Asst. Professor of Neurology

Ravinder Reddy, PhD, Professor of Radiology

**“Integrated regional 4D MRI cardiac hemodynamic imaging and phenotyping of left ventricular endocardium following mitral annuloplasty”**

Peter Davies, PhD, Professor of Pathology and Laboratory Medicine and Bioengineering

Joseph Gorman, MD, Professor of Surgery

Robert Gorman, MD, Professor of Surgery

Walter Witschey, PhD, Asst. Professor of Radiology