



ITMAT

**Institute for Translational Medicine
and Therapeutics**

Agenda for TBIC Retreat
Tuesday, May 29, 2007
BRB II/III Auditorium

- 8-8:30 *Continental Breakfast*
- 8:30 **Introduction / Role of Imaging in Translational Medicine**
Mitchell D. Schnall, MD, PhD
- Cancer**
- 8:45 **MRI/CT Approaches to Anatomic and Functional Imaging of Cancer**
Mark A. Rosen MD, PhD (Radiology)
- 9:00 **Molecular Imaging to Characterize and Guide Cancer Therapy**
Chaitanya Divgi, MD (Radiology)
- 9:15 **MRI Spectroscopy in the Characterization of Cancer and Cancer Response**
E. James Delikatny, PhD (Radiology)
- 9:30 **Imaging Assessment of Brain Tumors**
Elias R. Melhem, MD, PhD (Radiology)
- 9:45 **Imaging in Early Phase Cancer Clinical Trials**
Peter J. O'Dwyer, MD (Oncology)
- 10:00 **Imaging in Drug Development**
William M. Lee, MD, PhD (Oncology)
- 10:15 *Discussion*
- 10:30 *Coffee Break*
- Cardiovascular**
- 10:45 **Quantitative Imaging of Cardiac Anatomy and Function**
Harold I. Litt, MD, PhD (Radiology)
- 11:00 **Molecular Imaging in the Cardiovascular System**
Rong Zhou, PhD (Radiology)
- 11:15 **Vascular Plaque Characterization with Imaging**
Ronald L. Wolf, MD, PhD (Radiology)
- 11:30 *Discussion*
- 11:45 *Lunch*



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Optical Imaging:

- 12:45 **Optical Imaging in the Detection and Characterization of Breast Cancer**
Regine Choe, PhD (Physics)
- 1:00 **Overview of the Regional Laser and Biomedical Technology Laboratories**
Thomas Troxler, PhD (Chemistry)
- 1:15 **Optical Probes for Measuring Tissue Oxygenation**
Sergei Vinogradov, PhD (Biochemistry & Biophysics)
- 1:30 *Discussion*

Functional Neuro

- 1:45 **Functional Neuroimaging with MRI**
John Detre, MD (Neurology)
- 2:00 **Molecular Neuroimaging**
Andy Newberg, MD (Radiology)
- 2:15 **Quantitative Morphometrics**
James Gee, PhD (Radiology)
- 2:30 **Approaches to Imaging Psychiatric Disorders**
Ruben Gur, PhD (Psychiatry)
- 2:45 **Imaging Opportunities in Addiction Research**
Anna Rose Childress, MD (Psychiatry)
- 3:00 *Discussion and Conclusion*

Course Directors :

Mitchell D. Schnall, MD,
PhD
Chaitanya Divgi, MD
James Gee, PhD
Tim Roberts, PhD