



National Institute of
Biomedical Imaging
and Bioengineering

**Workshop on
Clinical Translation of Molecular Imaging Probes and Technology**

August 2, 2013
Lister Hill Auditorium
National Institutes of Health
Bethesda, Maryland

Agenda

7:45 – 8:00 a.m. **Registration**

8:00 – 8:10 a.m. **Welcoming Remarks**
Roderic Pettigrew, Ph.D., M.D., Director, NIBIB

8:10 – 8:15 a.m. **Introduction**
Christina Liu, Ph.D., P.E., NIBIB

Session I: Current Challenges and Needs for Clinical Research and Patient Care
Chair: Steven Krosnick, M.D., NIBIB

8:15 – 8:35 a.m. **Development of New Imaging Probes for CVD: Challenges and Possible Benefits**
Lynne Johnson, M.D., Columbia University/New York - Presbyterian Hospital

8:40 – 9:00 a.m. **Clinical Needs for Molecular Imaging in Diabetic and Metabolic Diseases**
Maren Laughlin, Ph.D., NIDDK, NIH

9:05 – 9:25 a.m. **Molecular Imaging Needs in Translational and Clinical Neuroscience**
Kirk Frey, M.D., Ph.D., University of Michigan

9:30 – 9:50 a.m. **Imaging Chemokine Receptors: The Case of CXCR4**
Joshua Farber, M.D., NIAID, NIH

9:55 – 10:15 a.m. BREAK

Session II: Advances and Potential in Molecular Probe Design
Chair: Richard Conroy, Ph.D., NIBIB

10:15 – 10:35 a.m. **Recent Advances in MR Probes: Are We There Yet?**
Thomas Meade, Ph.D., Northwestern University

10:40 – 11:00 a.m. **Unmet Needs in PET Imaging of Neurodegenerative Diseases**
Chester Mathis, Ph.D., University of Pittsburgh

- 11:05 – 11:25 a.m. **Ultrasound-based Molecular Imaging: Advantages, Limitations and Outlook**
Stanislav Emelianov, Ph.D., University of Texas at Austin
- 11:30 – 11:50 a.m. **Multi-modality and Multi-functional Molecular Imaging Agents**
Martin Pomper, M.D., Ph.D., Johns Hopkins University
- 11:55 – 12:15 p.m. **Panel Discussion / Moderator: Richard Conroy, Ph.D., NIBIB**
All Session I and Session II Speakers
- 12:15 – 1:05 p.m. LUNCH**

Session III: Current Challenges and Needs for Industry and Pharmaceutical Companies
Chair: Christina Liu, Ph.D., P.E., NIBIB

- 1:05 – 1:25 p.m. **NCI Programs in Translational Molecular Imaging Research**
Paula Jacobs, Ph.D., NCI, NIH
- 1:30 – 1:50 p.m. **The Expanding Use of PET Molecular Imaging, the Current Trends and Challenges for Pharmaceutical Companies**
Kevin Maresca, Ph.D., Pfizer, Inc.
- 1:55 – 2:15 p.m. **Use of Exploratory IND for Early Phase Clinical Trials Using PET or SPECT Imaging**
Gilles Tamagnan, Ph.D., Molecular Neuroimaging, Inc.
- 2:20 – 2:40 p.m. BREAK**

Session IV: Clinical Translation of Molecular Imaging Probes
Chair: Antonio Sastre, Ph.D., NIBIB

- 2:40 – 3:00 p.m. **Clinical Translation of Hyperpolarized Carbon-13 MRI Technology: Successes and Challenges**
Dan Vigneron, Ph.D., University of California, San Francisco
- 3:05 – 3:25 p.m. **The Use of Imaging in Clinical Trials: CDER's Perspective**
Libero (Louis) Marzella, M.D., Ph.D., DMIP/CDER/FDA
- 3:30 – 3:50 p.m. **Medicare Coverage of Molecular Imaging**
Louis Jacques, M.D., CMS
- 3:55 – 4:20 p.m. **Panel Discussion / Moderator: Antonio Sastre, Ph.D., NIBIB**
All Session I, II, III, IV Speakers
- 4:20 – 4:30 p.m. **Concluding Remarks**
Belinda Seto, Ph.D., Deputy Director, NIBIB