

September 8-11
Providence, Rhode Island
Rhode Island Convention Center

Joint Molecular Imaging Conference 2007

We invite you to participate in the inaugural Joint Molecular Imaging Conference of the Academy of Molecular Imaging (AMI) and the Society for Molecular Imaging (SMI). By combining the AMI and the SMI conferences, we bring together technically distinct and separate research communities that have a shared vision in the molecular imaging sciences. The Joint Conference will showcase the latest advances in the field of molecular medicine and will convene the world's leading experts in molecular imaging bridging the gap between basic science and clinical applications. The annual meeting will encompass various *in vivo* and *in vitro* imaging methods, including discussion of optical imaging, ultrasound, CT, PET, SPECT, MRI, multi-modality imaging, new molecular imaging agents and probes and the application of imaging to drug development. Please make plans to join us for the conference and exhibition as we explore the present status and future of cellular and molecular studies in the context of the whole organism.

Featured Speakers



KEYNOTE SPEAKER

Professor Sir George Radda

Head of Department of Physiology, Anatomy and Genetics
University of Oxford

"Horizons for Molecular Imaging Using Hyperpolarized Carbon-13"

Professor Sir George Charles Radda has received numerous prestigious awards and honors for his pioneering efforts in using spectroscopic techniques for metabolic studies, including a CBE in June 1993 and a knighthood in June 2000. He is a Fellow of Merton College, Oxford, a

Fellow of the Royal Society and is the British Heart Foundation Professor of Molecular Cardiology. He has also been awarded many distinguished prizes throughout his scientific career including the Citation for International Achievement from the American Heart Association.

PLENARY SPEAKERS

Molecular Biology of Disease Session

- Robert Balaban, PhD, National Heart, Lung and Blood Institute, NIH
- Michal Neeman, PhD, The Weizman Institute of Science, Israel
- Michael Schäfers, PhD, Westfälische Wilhelms-University, Münster

Imaging and Drug Development Session

- Darrick Fu, MBA, Pharmaceutical Research & Manufacturers of America (PhRMA)
- John Kotyk, PhD, Washington University School of Medicine
- Scott D. Patterson, PhD, Amgen

Quantitative Imaging Session

- Steve Bacharach, PhD, Center for Molecular and Functional Imaging, UCSF
- John Frangioni, MD, PhD, Harvard Medical School
- Brian Rutt, PhD, Robarts Research Institute

Continuing Education Credit

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the Radiological Society of North America (RSNA), the Society for Molecular Imaging (SMI), and the Academy of Molecular Imaging (AMI). The RSNA is accredited by the ACCME to provide continuing medical education for physicians.

The Radiological Society of North America designates this educational activity for a maximum of 23.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Plenary Speakers



Stephen L. Bacharach, PhD – Dr. Bacharach is a Visiting Professor, Radiology Center for Molecular and Functional Imaging UC, San Francisco. He has received the Hermann Blumgart Award for contributions to cardiac imaging. Dr. Bacharach is on the editorial board of the Journal of Nuclear Cardiology and the Journal of Nuclear Medicine.



Robert Balaban, PhD, Principal Investigator, Lab of Cardiac Energetics, National Heart, Lung and Blood Institute in Bethesda, Maryland. Dr. Balaban has received prestigious honors for his work including a Gold Medal from the Society of Magnetic Resonance, a Public Health Service Superior Service Award, and most recently, an NIH Director's Award. He is on the editorial boards of Nuclear Magnetic Resonance in Biomedicine, Magnetic Resonance Quarterly, and Magnetic Resonance in Medicine.



John Frangioni, MD, PhD – John V. Frangioni, M.D., Ph.D. is an attending physician and Associate Professor in the Division of Hematology/Oncology, Department of Medicine at the Beth Israel Deaconess Medical Center. His academic appointments as an Associate Professor of Medicine and an Associate Professor of Radiology are at Harvard Medical School. Dr. Frangioni has been recognized as a for the NIH Director's Pioneer Award, Semi-finalist and Harvard Medical School Teaching Award, Best Guest Lecturer.



Darrick Fu, MBA – Darrick Fu is Associate Vice President Scientific & Regulatory Affairs at the Pharmaceutical Research and Manufacturers of America (PhRMA) in Washington DC. In this position, he leads PhRMA's strategic initiatives to improve the biopharmaceutical R&D business model across industry to assure continued innovation in medicines. Mr. Fu has been responsible for the worldwide development of several new biopharmaceuticals including Lynx™ a vaccine against Lyme Disease, and more recently for Cervarix™ a novel vaccine that prevents cervical cancer.



John Kotyk, PhD – Washington University School of Medicine – Research Associate Professor Mallinckrodt Institute of Radiology, Associate Director Center for Clinical Imaging Research Mallinckrodt Institute of Radiology. Areas of interests include the development, implementation and validation of *in vivo* MRI technologies as target, mechanism and outcome biomarkers of disease and measures of drug efficacy/intervention. Specific oncological research interests include the development and application of dynamic-contrast-enhanced MRI methods to measure changes in tumor vascular permeability.



Michal Neeman, PhD – Professor Neeman has received numerous honors and awards most recently the ISMRM Fellowship Award. She is a Full Professor, Department of Biological Regulation, Weizman Institute of Science, Rehovot, Israel. Dr. Neeman is on the Editorial Board of several scientific journals and is a member of Academic and Professional committees of the International Society of Magnetic Resonance in Medicine (ISMRM) and the Weizman Institute.



Scott D. Patterson, PhD – Dr. Patterson is an Executive Director in Molecular Sciences leading the Medical Sciences department at Amgen Inc. in which key technologies such as proteomics, genomics, etc. are applied to early drug development. Dr. Patterson has received the Long Island Biological Association, New York, New Investigator Start-up award and the Barnett Lecturer, Barnett Institute, Northeastern University, Boston, MA. Within the Medical Sciences department at Amgen he led development of Biomarker Strategy document, dissemination of the strategy and formation of Biomarker Discovery Working Groups across all Therapeutic areas.



Brian Rutt, PhD – Dr. Rutt is a Scientist at the Robarts Institute, Ontario, Canada. He is also a Professor, Department of Diagnostic Radiology and Nuclear Medicine at the University of Western Ontario and a Professor, Department of Medical Biophysics at The University of Western Ontario. Dr. Rutt has received the Barnett-ley Endowed Research Chair, Heart and Stroke Foundation award. He is a peer reviewer of BME Panel, Medical Research Council of Canada and R&D Review Panel, Heart & Stroke Foundation of Ontario.



Providence, Rhode Island: Venue, Travel and Hotel Information

Venue

Located in the heart of downtown Providence, the Rhode Island Convention Center (RICC) will host all meetings, exhibits, welcome reception, pre-conference symposia, workshops and poster sessions.

Travel

One can access Providence from New York and Boston by train, automobile or plane (EE Green Airport) and the city is within a three hours drive of the second highest concentration of molecular imaging scientists in the USA. Boston is just a one hour drive to the Northeast and New York City is about three hours driving time to the Southwest. For additional transportation details, visit the website.

Hotels

To receive special discount rates, please reserve your room by June 5th and see our website for special reservation codes. Additional details at www.molecularimaging.org/07/conf

The Westin Providence

The Headquarters hotel is connected to the RICC and is within walking distance of many gourmet restaurants and historic attractions.
\$174 S/D 1-800-WESTIN-1

Providence Biltmore Hotel

The Biltmore, the epitome of charm and elegance, is located across the street from RICC.
\$164 S/D 800-294-7709

The Hotel Providence

The city's first European-style luxury boutique hotel and winner of the 2006 AAA Four Diamond Award. Thoughtful amenities include complimentary Wi-Fi, 27" large screen TVs, and pillow top beds. Conveniently located within easy walking distance of RICC.
\$175 S/D 1-800-861-8990

Hilton Providence

In the heart of downtown Providence, the hotel has just completed a \$40 million renovation and has an indoor pool and health club.
\$169 S/D 1-800-HILTONS

Renaissance Providence Hotel

Providence's newest luxury hotel opened this year and built from a converted historic landmark across from the State House. Easy walk to RICC past the city's largest mall – Providence Place. Be one of the first guests to experience this 21st century hotel with a celebrated past.
\$169 S/D 1-800-468-3571

Courtyard Providence Downtown

Situated in the historic Union Station Plaza close to the RICC, this hotel offers free high-speed Internet access, indoor pool with whirlpool, and fitness center.
\$149 S/D 1-888-887-7955

S/D = single/double

Register Online Today www.molecularimaging.org/07/conf

For additional questions: (310) 267.2614 ami@mednet.ucla.edu

Join us before the Joint Molecular Imaging Conference for the Imaging in Molecular Medicine Symposium and Exhibition co-sponsored by AMI, RSNA, SNM and SMI. The Symposium will provide an introduction and overview of molecular imaging to radiologists, nuclear medicine physicians, oncologists, cardiologists, administrators, technologists and other physicians and trainees with a clinical interest in molecular imaging.

Register by
June 25th and
save up to
\$100

Registration and Information
www.molecularimaging.org/07conf

DEADLINES

Early Registration: June 25, 2007
Regular Registration: August 22, 2007

Program Chairs and Steering Committee

Program Co-Chairmen

Thomas Budinger (Co-Chair), University of California Berkeley
Sanjiv (Sam) Gambhir (Co-Chair), Stanford University

Steering Committee

James Basilion, Case Western Reserve University
Simon Cherry, University of California, Davis
Johannes Czernin, University of California, Los Angeles
Marcelo Di Carli, Brigham and Women's Hospital
Joseph Frank, National Institutes of Health
Robert Gillies, University of Arizona, Tucson, USA
Robert Lenkinski, Beth Israel Deaconess Medical Center
Timothy McCarthy, Pfizer Global R&D
Thomas Meade, Northwestern University
Brian Ross, University of Michigan
Markus Schwieger, Technische Universität München, München, Germany
Bertrand Tavitian, CEA (Commissariat à l'Énergie Atomique), Orsay, France
Wolfgang Weber, University of California, Los Angeles
Ralph Weissleder, Massachusetts General Hospital

Molecular Imaging Fundamentals in Medicine

PROGRAM CHAIR: RALPH WEISSLEDER, MD, PhD

Introduction and Welcome: Overview
Ralph Weissleder, MD, PhD

Molecular Cell Biology
Sunil Pandit, PhD

Microarray Analysis: Overview and Potential Applications to Neuroscience
Ed Herskovits, MD, PhD

Introduction to Molecular Imaging Including Recent Significant Advances
Sanjiv S. Gambhir, MD, PhD

The Role of Nanotechnology in Molecular Imaging
Jason McCarthy, PhD

MICAD - Molecular Imaging and Contrast Agent Database
Ann Menkens, PhD

Fluorescence Imaging
Christoph B. Bremer, MD

Intraoperative Imaging
Umar Mahmood, MD, PhD

High-resolution Photoacoustic Imaging
Lihong Wang, PhD

Intravital Immunology: Visualizing T-cell Function *In-Vivo*
Thorsten Mempel, MD, PhD

Ultrasound in Molecular Imaging: Methods and Early Results
Katherine Ferrara, PhD

Simultaneous PET and MRI: A New Tool for Molecular Imaging?
Simon Cherry, PhD

Optical Imaging in Cancer Detection and Disease Management
Michael Seiden, MD, PhD

Diffusion MRI: A New Emerging Tumor-response Biomarker
Anwar Padhani, MD

Cancer Treatment Response by PET
Steven M. Larson, MD

Potential Use of Biological Images for Radiotherapy Treatment Planning
Clifton Ling, PhD

Characterization of Plaque Vulnerability Using MRI Contrast Agents
Bruce Wasserman, MD

Cardiovascular Imaging
David E. Sosnovik, MD

Molecular Imaging of Neurodegenerative Diseases
Dima A. Hammoud, MD

In-Vivo Imaging of Stem Cells in Neurological Diseases
Joseph Frank, MD

Imaging of Pancreatic Inflammation in Type 1 Diabetes
Jason Gaglia, MD

Rheumatoid Arthritis
Bryce Binstadt, MD, PhD

Molecular Neuroimaging: From Conventional to Emerging Techniques
Martin G. Pomper, MD, PhD

Clinical PET/CT Imaging

PROGRAM CHAIR: JOHANNES CZERNIN, MD

Introduction
Johannes Czernin, MD

Elucidating the Neurobiology of Addiction
Edythe London, PhD

Sex Hormones in the Brain
Susan Resnick, PhD

Advances in Brain Tumor Imaging
Alex Spence, MD

Clinical Cardiac PET/CT
Marcelo DiCarli, MD

Role of Metabolic Imaging in Cardiovascular Disease
Robert Gropler, MD

Imaging Protocols
Homer Macapinlac, MD

Design of Clinical Trials Evaluating PET/CT as an Imaging Biomarker in Oncology
Wolfgang Weber, MD

National Harmonizing Criteria
Malik Juweid, MD

Slice-by-Slice Interpretation: Head and Neck
Marc Seltzer, MD

Slice-by-Slice Interpretation: Chest, Abdomen and Pelvis
Marc Seltzer, MD

2007 Peter Walk Distinguished Clinical Scientist Award

Steven Larson, MD, Memorial Sloan-Kettering Cancer Center

Molecular Imaging of Endocrine Malignancies
Heiko Schöder, MD

Imaging Cell Therapy: Can it Be Done?
Joseph Wu, MD, PhD

Inflammation
TBA

PET/MRI: A New Generation of Multimodality Imaging
Bernd Pichler, PhD

F-Bone Imaging
Ora Israel, MD

2007 Distinguished Basic Scientist Award

Simon Cherry, PhD, University of California, Davis

Molecular Imaging of Post-infarct LV Remodeling
Albert Sinusas, MD

Quantitative Image Analysis in Neurology
Dan Silverman, MD

Quantitative Image Analysis in Oncological PET/CT
Wolfgang Weber, MD

Imaging Biomarkers for Breast Cancer
Johannes Czernin, MD

The Use of Imaging-based Biomarkers in Drug Development
Timothy J. McCarthy, PhD

The Symposium will also feature additional tracks and workshops sponsored by AMI. Included are:

- Administrators Track with Industry Forum
- Technologist Track
- Biomarker Workshop
- MicroPET Workshop

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CO-SPONSORED BY



Joint Molecular Imaging Conference 2007

and Pre-Conference Symposium: Imaging in Molecular Medicine 2007

September 7-11

Providence, Rhode Island, Rhode Island Convention Center

Updated
Information
Inside

Joint Conference Highlights

Abstract-Driven Breakout Sessions

In addition to the invited plenary speakers, the breakout sessions will be abstract driven this year. Twenty-seven breakout sessions will be created after careful review of abstracts submitted within the various categories of oncology, neurology, cardiology and instrumentation.

Marketplace Exhibition

This year's expanded technical exhibition will create a "one-stop" educational and technological showcase bringing together various imaging methods, new molecular imaging agents and probes for both the pre-clinical market in research and drug development as well as clinical applications. The Exhibit Hall will feature a welcome reception, refreshments, cyber stations, and unmatched opportunities for networking.

Evening Networking Events

Spend your daytime hours hearing the latest developments in molecular imaging, but once the sun goes down, fill your evenings with fun, excitement and informal networking. From the energizing Welcome Reception kick-off to the elegant gala reception featuring foods and beverages with local New England flavor, you won't want to miss these opportunities to reconnect with old friends and get to know colleagues and industry leaders better while enjoying the gracious hospitality and charm of Rhode Island.

Registration and Information

www.molecularimaging.org/07conf

For additional questions:

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