

# World Molecular Imaging Society

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World Molecular Imaging Society  
Discover. Visualize. Learn. Cure.

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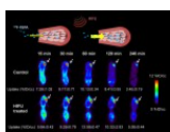
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## Find Your Place in WMIS: Step Up and Join an Interest Group

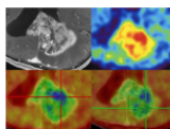
- [Imaging of Infections \(IOI\)](#)
- [Optical Surgical Navigation \(OSN\)](#)
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- [Managers of Molecular Imaging Laboratories \(MOMIL\)](#)
- [Ultrasound Molecular Imaging and Drug Delivery \(UMIDD\)](#)
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- [Early Stage Professionals in Molecular Imaging Sciences \(ESPMIS\)](#)

### In the Journal



**Pulsed high-intensity focused ultrasound (pulsed- HIFU) may enhance microPET scans.**

...  
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**18F-FRP170 represents viable hypoxic tissues in glioblastoma.**

...  
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### Upcoming WMIC Meetings

### Other Upcoming MI Meetings

### News and Announcements

**Jack Hoppin, Ph.D., Co-Founder and Managing Director of inviCRO, LLC, joins the Board of Trustees of the World Molecular Imaging Society (WMIS)**  
Continued close alliance between inviCRO...

**PerkinElmer Partners with Sofie Biosciences to Deliver Benchtop PET In Vivo Imaging Systems to Preclinical Research Professionals**  
Preclinical PET Imaging Instruments in...

**New PET Probes: A new way**

### Interest Group Highlights

[Click here](#) to read the WMIS IG Article: *Women in Leadership Roles in Imaging*, an interview with Drs. Bhujwala and Wu by Helen McBride.

## About WMIS

The World Molecular Imaging Society (WMIS) is an international scientific educational organization dedicated to the understanding of biology and medicine through multimodal in vivo imaging of cellular and molecular events involved in normal and pathologic processes and utilization of quantitative molecular imaging in patient care.

The World Molecular Imaging Society (WMIS) was established in 2011 by integrating the Academy of Molecular Imaging and the Society for Molecular Imaging into a single streamlined society focused on advancing the field of molecular imaging (MI). Within a relatively short time, the WMIS has significantly expanded its global footprint in this field by building and expanding upon existing strengths and infrastructures of these two organizations.

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## 2014 WMIC Annual Congress

학회기간: September 17-20, 2014

장소: Seoul, Korea



### Plenary Speakers

“Stem Cell Imaging – Translational Approaches”, Heike Daldrup-Link, M.D., Ph.D., Associate Professor of Radiology, Stanford University, USA

“The Role of Molecular Imaging in Nanotheranostics”, Ick Chan Kwon, Ph.D., Director of Global RNAi Carrier Initiative at Center for Theragnosis, Korea Institute of Science and Technology, Korea

“New Strategies for Imaging Infections and Oxidative Stress”, Niren Murthy, Ph.D., Professor of Bioengineering, University of California at Berkeley, USA,

“PET: Time to Go Back to Basics”, Michael E. Phelps, Ph.D., Norton Simon Professor; Chair, Department of Molecular and Medical Pharmacology; Director, Crump Institute for Molecular Imaging, UCLA, USA,

“Imaging of the Epithelial-Mesenchymal Transition in Biological Development and Cancer”, Jean Paul Thiery, Ph.D., Head of the Yong Loo Lin School of Medicine Biochemistry Department, National University of Singapore, Singapore.

### Spotlight Sessions

Multiscale Molecular Imaging: From Microscopy to Mouse to Man

Transformative Technologies for Molecular Imaging

Molecular Imaging: Spotlight on Neurosciences

Molecular Imaging: Spotlight on Cardiology

Reporter Gene Imaging

Molecular Imaging of Metabolism and Metabolic Diseases

Quantitative Molecular Imaging

Molecular Imaging Goes Viral: Spotlight on Infectious Diseases

## **Selected Presentations**

### **Chemistry & Imaging Probes**

Glucan particles as a new platform for multimodal imaging of monocytes/macrophages (Francesca Garello)

New gadolinium-based contrast agent for sensitive detection of Zn(II) in the prostate with MRI (Veronica Jordan)

Cerenkov radiation energy transfer (CRET) by gold nanoclusters as a novel strategy for tumor imaging and delineation (Olga Volotskova)

Localized antitumor drug activation and early stage tumor fluorescent imaging through NIR light mediated upconversion nano-platforms (Bengang Xing)

Peptide-lipid based fluorescent nanoprobe for theranostics of nasopharyngeal carcinoma in mice (Zhihong Zhang)

Anti-HER2 nanobodies: novel theranostic tools (Catarina Xavier)

Gold encapsulated polyphosphazene nanospheres as biodegradable contrast agents for computed tomography (Rabee Cheheltani)

Labeling monocytes with gold nanoparticles to track their recruitment to infarcted myocardium (Peter Chhour)

Theranostic tissue engineering: MR imaging of USPIO-labeled collagen scaffolds and vascular grafts (Marianne Mertens)

MR-Based assessment of small molecule diffusion following release from thermosensitive liposomes (Amanda Aleong)

Discoidal polymeric nanoconstructs for multi-modal PET-MR-optical imaging of cancer (Jaehong Key)

Near-infrared fluorescent and PET dual-modal imaging of a pancreatic cancer biomarker using a site-specific, enzyme-mediated labeling approach (Jacob Houghton)

Technological advances in dynamic contrast enhanced multispectral optoacoustic tomography (DCE-MSOT) for in vivo tracer imaging (Stefan Morscher)

Photosensitizer-doped silica-coated gold nanorods as multimodal theranostic agents for intravascular characterization and treatment of atherosclerotic plaques (Doug Yeager)

Photoacoustic imaging of fluorophores using excited state lifetime modulation (Julia Maerk)

### **Technology & Software Developments**

A novel rapid, circumferential-scanning Raman-based device to detect tumor-targeting Raman nanoparticles in hollow lumens (Ellis Garai)

Automatic fluorescence-enhanced detection of rheumatoid arthritis in human hand joints (Pouyan Mohajerani)

Improving the sensitivity of X-ray fluorescence molecular imaging by anisotropic detection  
(Moiz Ahmad)

Molecular imaging using combined system of fluorescence molecular tomography and micro-computed tomography (Xiaoquan Yang)

A proof-of-concept quintuple modality system for in vivo imaging of small animals (Hui Hui)

## Future Meetings

WMIC 2015

September 2-5, 2015

Honolulu, USA



WMIC 2016

September 7-10, 2016

Vienna, Austria



## Related Publications

Molecular Imaging and Biology

