

PIBM 2009

The 8th International Conference on Photonics and Imaging in
Biology and Medicine

DATE August 8-10, 2009

CONFERENCE LOCATION

Huazhong University of Science and Technology
Wuhan, P.R.China

CELEBRATE 10TH ANNIVERSARY

REGISTRATION

Link to [POEM Website](#)



PIBM 2009 Topics

Tissue Optics and Diffuse Optical Imaging

Optical Molecular Imaging

Multiphoton Microscopy in Biomedical Sciences

Photonic Therapeutics, Diagnostics and Instrumentations

Multimodal and Hybrid Biomedical Imaging

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Tissue Optics and Diffuse Optical Imaging

Diffuse Optical and Spectroscopic Imaging
Functional Brain Imaging and Mammography
Image Reconstruction Methods
Optical Interaction with Tissue and Cells: Theory and Applications
Thermal Treatment of Tissue
Control of Tissue Optical Properties

Optical Molecular Imaging

Molecular Beacons, Probes and Dyes for Biomedical Applications
Tissue-targeting or Tumor-seeking Agents
Nanoparticles, Colloidal Quantum Dots for Biomedical Applications
Nano/Biophotonics and Biomedical Applications
Optical Probes for Molecular and Cellular Imaging
3-D and Multidimensional Microscopy
Functional Imaging and Optical Manipulation of Biomolecules, Live Cells and Tissues
Molecular Optical Coherence Tomography
Fluorescence Molecular Tomography
Optical Imaging of Gene Expression and Protein-Protein Interaction
Functional Monitoring and Drug-tissue Interaction

Multiphoton Microscopy in Biomedical Sciences

Multiphoton Microscopy (MP) Theory and System Development
Fluorescence Resonance Energy Transfer Imaging (MP-FRET)
Fluorescence Lifetime Imaging (frequency- and time- domain) (MP-FLIM)
Fluorescence Correlation Spectroscopy (MP-FCS)
Second Harmonic Generation Microscopy (SHG)
Fluorescence Recovery after Photobleaching (MP-FRAP)
MP in Photodynamic Therapy (MP-PDT) and Clinical Imaging

Photonic Therapeutics, Diagnostics and Instrumentations

Lasers in Medicine
Optical Biopsy
Optical Coherence Tomography in Biomedicine
Optical Techniques in Neurosurgery and Brain Imaging
Optical Methods for Tumor Treatment and Detection: Mechanisms and Techniques in

Photodynamic Therapy
Optical Sensors and Systems for Medical Diagnostics and Treatment
Mechanisms for Low-Intensity-Light Therapy
Novel Endoscopic Technologies

Multimodal and Hybrid Biomedical Imaging

Multimodal Imaging Integrating Structural and Functional Information
Photoacoustic/Thermoacoustic Imaging
2D, 3D, 4D Tomographic and /or Multi-spectral Imaging
Combination of Optical Imaging with Other Modalities (MR, X-ray, PET)
Image Analysis, Computational Methods and Reconstruction Approaches
Visualization, Segmentation and Registration for Optical Imaging
Biomedical Image Display and Human Perception
Digital Radiography, Digital Fluoroscopy and Digital Mammography
Teleradiology and Telemedicine, Picture Archiving and Communication Systems
Other Novel Imaging Techniques