

APBP`15

5th Asian and Pacific-Rim Symposium on Biophotonics

Date : 22-24 April 2015

Venue : Pacifico Yokohama (Yokohama, Japan)

Sponsored by the Optical Society of Japan



Call for Papers

Paper Due Date: **12th December 2014**

Conference Topics

1. Optical Microscopy and Nanoscopy

super-resolution optical imaging / multiphoton microscopy / SHG, THG, CARS, SRS, FWM microscopies / nonlinear optical microscopy / endoscopic microscopy / optical trapping, manipulation and tweezers / novel techniques in microscopy and nanoscopy / application to cell biology

2. Novel Spectroscopy and Molecular Probes

quantum dots / nanoparticles / Raman scattering / single molecule technique / molecular and functional imaging

3. Optical Coherence Imaging

optical coherence tomography (OCT) - theory and modeling / OCT technology development / light sources and MEMS probes / image processing and segmentation / speckle analysis and reduction / biomedical and Clinical applications of OCT

4. Photoacoustic Methods

photoacoustic theory and modeling / photoacoustic imaging and tomography / functional photoacoustic imaging / clinical applications of photoacoustic techniques

5. Diffuse Spectroscopy and Imaging

photon migration - theory and modeling / diffuse optical spectroscopy / multi-spectral imaging / speckle imaging / diffuse optical tomography and diffuse fluorescence tomography / functional imaging techniques in neuroscience / novel instrumentation and applications

6. Photo Therapeutics and Laser Tissue/Cell Interactions

modeling of laser-tissue/cell interactions / cellular micro- and nano-effects of laser radiation / tissue ablation / low-level laser therapy / photodynamic therapy / minimally invasive laser surgery / fluorescence guided procedures / preclinical and clinical studies

7. Novel Biophotonics Techniques and Applications

optical devices for biophotonics / multimodal techniques / integration of diagnostic and therapeutic photomedicine / hybrid approaches in photomedicine / holography and micro-holography / biomimetics

Conference Chair: Toshiaki Iwai, Tokyo University of Agriculture and Technology, Japan



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Pacifico Yokohama
Yokohama, Japan

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