

Plenary Speakers

Yusuke Abe



Control of the Artificial Heart

Research Foci: Artificial heart, Assist circulation, Hybrid artificial organs
Emergency life support system, IT in medicine

The University of Tokyo, Japan
www.bme.gr.jp

David J. Beebe



Microscale Environments for Understanding Cell Biology

Research Foci: Cellular scale phenomena from both a physical and biological sciences perspective. We engineer cellular scale systems in order to better understand basic cellular processes relevant to cancer and development.

University of Wisconsin, Madison, USA
www.mmb.bme.wisc.edu

Søren M. Bentzen



Radiation Oncology: Medical Physics meets Molecular Biology

Research Foci: Theragnostic radiation oncology; translational radiation research; side effects of therapy; clinical outcome studies; bioeffect modeling; integration of data from genomics, proteomics and molecular imaging into novel strategies for radiation therapy

University of Wisconsin School of Medicine and Public Health, Madison, USA
www.humonc.wisc.edu/modules/mediawiki/index.php/Søren_M_Bentzen

Thomas Bortfeld



Protonic Prospects

Research Foci: optimization of radiation therapy; multi-objective treatment planning; motion management in radiation therapy; intensity modulated proton therapy; dose imaging for proton therapy

Massachusetts General Hospital Boston, USA
www.partners.org

Peter Fratzl



Biomaterials, Cellular and Tissue, Engineering, Artificial Organs

Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
www.mpikg.mpg.de

Apostolos Georgopoulos



Neuroprosthetics and Neurobiomarkers

Research foci: Neural mechanisms of spatial cognition, neural networks, neuroprosthetics, neurobiomarkers.

University of Minnesota Medical School, Minneapolis, USA
www.brain.umn.edu/bios/Apostolos_G.htm

Willi Kalender



X-Ray Computed Tomography: State of the Art and Future Directions

Friedrich Alexander Universität Erlangen-Nuremberg, Germany
www.imp.uni-erlangen.de

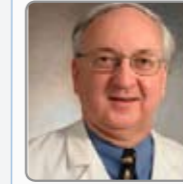
Ron Kikinis



Open Source Software as Enabler of Science

Harvard Medical Hospital School, Boston, USA
www.harvard.edu

Michael Vannier



Cancer, Trauma and Stroke- Imaging Biomarkers are changing them all

University of Chicago Medical Center, Chicago, USA
www.uchicago.edu

Peter Waegemann



Status and Future of EHR/EMR

Medical Record Institute, Newton, USA
www.medrecinst.com