

TOIN International Symposium on Biomedical Engineering Past Speakers / 2006-2017

1st TOIN International Symposium on Biomedical Engineering (2006)

Dr. Peter S. McFetridge
School of Chemical, Biological and Materials Engineering, University of Oklahoma, U.S.A.
- Functional Materials for Tissue Engineering Applications -

Dr. Xiongzhen Mu
Department of Plastic and Reconstructive Surgery, Shanghai Ninth Hospital
Shanghai Jiaotong University, China
- 3D Bone Biomaterial and Rapid Prototyping in Cranio-Maxillo-Facial Surgery -

Dr. Claude F. Meares
Department of Chemistry, University of California, U.S.A.
- New Bioconjugates for Molecular Imaging and Therapy -

Dr. Abraham J. Domb
Department of Medicinal Chemistry and Natural Products, The Hebrew University of Jerusalem,
Republic of Turkey
- Biodegradable Polymers for Cancer Therapy -

Dr. Masamitsu Haruna
Graduate School of Medicine, Osaka University, Japan
- Recent Development of Optical Coherence Tomography -

2nd TOIN International Symposium on Biomedical Engineering (2007)

Dr. Peter S. McFetridge
School of Chemical, Biological and Materials Engineering, University of Oklahoma, U.S.A.
- Cellular Function and Proliferation in Composite Materials for Tissue Regeneration -

Dr. Xiongzhen Mu
Department of Plastic and Reconstructive Surgery, Shanghai Ninth Hospital / Jiaotong University, China
- The Clinic Application of Digi-medicine in Plastic Surgery -

Dr. Charles A. Taylor
Department of Bioengineering, Mechanical Engineering and Surgery, Stanford University, U.S.A.
- Image-based modeling of blood flow in arteries: applications in disease research, device design and surgical planning -

Dr. Toshihiro Akaike
School and Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, Japan
- New Frontier of Biomedical Materials in Regenerative Medicine and Targetted Therapy -

Dr. Takayuki Ishida
Department of Clinical Radiology, Faculty of Health Sciences, Hiroshima International University, Japan
- Future in Radiological Technology: Computer-Aided Diagnosis on Chest Images -

3rd TOIN International Symposium on Biomedical Engineering (2008)

Dr. Leonard A. Herzenberg
Professor, Department of Genetics, Stanford University, U.S.A.
- AIDS, Cancer, Stem Cells: Breaking the Barrier -

Dr. Leonore A. Herzenberg
Professor, Department of Genetics, Stanford University, U.S.A.
- Harnessing the Computer for Biomedical Research -

Dr. Aftab Seth
Professor of Global Security Research Institute, Keio University / Former Ambassador of India, Japan
- India's Advanced Technical Education and the Economic Growth -

Dr. Shigehisa Hirose
Professor, Department of Biological Sciences, Tokyo Institute of Technology, Japan
- Zebrafish early cardiac connexin, Cx36.7/Ecx, regulates myofibril orientation and heart morphogenesis by establishing Nkx2.5 expression -

Dr. Peter S. McFetridge
School of Chemical, Biological and Materials Engineering, University of Oklahoma, U.S.A.
- Progress Towards Developing Functional Tissue Engineering Small Diameter Blood Vessels -

Dr. Tetsuji Okuno
Clinic Director, Clinica E.T., Japan
- Zebrafish early cardiac connexin, Cx36.7/Ecx, regulates myofibril orientation and heart morphogenesis by establishing Nkx2.5 expression -

4th TOIN International Symposium on Biomedical Engineering (2009)

Dr. Peter S. McFetridge
Associate Professor, School of Chemical, Biological and Materials Engineering, University of Oklahoma, U.S.A.
- Progress Towards Developing Functional Tissue Engineering Small Diameter Blood Vessels -

Dr. Julia Li Zhong
Professor, College of Bioengineering, Chongqing University, China
- A Role for Bach 1 and HO-2 in Suppression of Basal and UVA-induced HO-1 Expression in Human Keratinocytes -

Dr. Naomi Kitamura
Professor, Graduate School of Bioscience and Biotechnology/Biological Sciences, Tokyo Institute of Technology, Japan
- Intracellular Signaling in Antiproliferative Effect of HGF on Hepatocellular Carcinoma Cells -

Dr. Henry J. Snaith
RCUK Fellow in Photovoltaics, Department of Physics-Condensed Matter Physics,
University of Oxford, U.K.
- New Nanomaterials for Solid-State Dye-Sensitized Solar Cells -

5th TOIN International Symposium on Biomedical Engineering (2010)

Dr. Peter S. McFetridge

Assistant Professor, Department of Biomedical Engineering, University of Florida, U.S.A.

- Soft Tissue Regeneration: Progress Towards Functional Vascular Grafts -

Dr. Maria Nowakowska

Professor, Physical Chemistry, Nanotechnology of Polymers and biomaterials Research Group, Jagiellonian University, Poland

- Polymeric and Hybrid Functional Materials for Biomedical Applications -

Dr. Yuejun Zhang

Professor, School of Chemical Engineering, Nanjing University of Science and Technology, U.S.A.

- Mechanism and Application Researches of Polyquaternary Ammonium Salt PDMDAAC as Bactericide and Algicide -

Dr. Hitoshi Miyazaki

Professor, Graduate School of Life and Environmental Sciences, University of Tsukuba, Japan

- Prevention of Oxidative Stress-induced Diseases Using Olive Leaf Compounds -

6th TOIN International Symposium on Biomedical Engineering (2011)

Dr. Peter S. McFetridge

Assistant Professor, Department of Biomedical Engineering, University of Florida, U.S.A.

- Soft tissue regeneration: from the wound environment to functional tissues -

Dr. Elsie Effah Kaufmann

Head/Senior Lecturer, Department of Biomedical Engineering, Faculty of Engineering Sciences, University of Ghana, Ghana

- Biomedical Engineering at University of Ghana: Opportunities for Collaboration -

Dr. K. Kirk Shung

Professor, Department of Biomedical Engineering, University of Southern California, Director, NIH Resource on Medical Ultrasonic Transducer Technology, U.S.A.

Nanjing University of Science and Technology, China

- High Frequency Ultrasound -

Dr. Yutaka Tamaura

Professor, Research Center for Carbon Recycling and Energy, Tokyo Institute of Technology, Japan

- Solar Thermal Fuel Production by Light and Dark Reactions

7th TOIN International Symposium on Biomedical Engineering (2012)

Dr. Peter S. McFetridge

Associate Professor, Department of Biomedical Engineering, University of Florida, U.S.A.

- Soft Tissue Regeneration: From the Wound Environment to Functional Tissues -

Dr. Toshihiro Akaike

Professor, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, Japan

- Design of Cell-recognizable Nano-biomaterials for ES/iPS Cell Proliferation and Differentiation – Cadherin-based "Cell-Cooking Plate" – -

Dr. El Akrem Hayouni

Associate Professor, Laboratory of Bioactive Compounds, Center of Biotechnology at Borj-Cedria Ecopark, Tunisia

- Tunisian Natural Bioresources in Pharmaceutical and Biomedical Uses: New Opportunities -

Dr. Qifa F. Zhou

Professor, Department of Biomedical Engineering, University of Southern California, U.S.A.

- Integrated High Frequency Ultrasound/OCT system for IVUS Imaging Application -

8th TOIN International Symposium on Biomedical Engineering (2013)

Dr. Peter S. McFetridge

Associate Professor, Department of Biomedical Engineering, University of Florida, U.S.A.

- Human Birthing Tissues: Biomaterial Applications in Wound Healing -

Dr. Agung Pranoto

Professor, Faculty of Medicine, University of Airlangga, Indonesia

- Osteoporosis in Indonesia: Epidemiology and Research Activity -

Dr. Nobuhiro Nakamura

Associate Professor, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, Japan

- Control of Mitochondrial Morphology by Ubiquitination and Deubiquitination -

Dr. Kenichi Mitsui

Specially-appointed Research Associate, Department of Molecular Biology and Medicine, University of Southern California, U.S.A.

- Functional Reconstitution of Olfactory Receptor Complex on Baculovirus -

9th TOIN International Symposium on Biomedical Engineering (2014)

Dr. Peter S. McFetridge

Associate Professor, Department of Biomedical Engineering, University of Florida, U.S.A.

- In Viro and in Vivo Vascularization: The Formation of Capillaries and Functional Capillary Beds Using Human Placental Lysate -

Dr. Zoltan Krasznai

Associate Professor, Department of Biophysics and Cell Biology, Faculty of Medicine, University of Debrecen Medical and Health Science Center, Poland

- New Trends in Molecular Imaging: Multimodal Bioluminescence and Isotope Imaging Techniques in Cancer Research -

Dr. Loreto Feril, Jr.

Senior assistant Professor, Department of Anatomy, Fukuoka University School of Medicine, Japan

- Bioeffects of Ultrasound: Mechanisms Involved and Their Potential Therapeutic Applications -

Dr. Toshihiro Akaike

Director, Biomaterials Center for Regenerative Medical Engineering, Foundation for Advancement of International Science, Japan

Professor Emeritus, Tokyo Institute of Technology, Japan

- Cadherin-Matrix Engineering in Cell-Recognizable Biomaterials -

10th TOIN International Symposium on Biomedical Engineering (2015)

Dr. Peter S. McFetridge

Associate Professor, Department of Biomedical Engineering, University of Florida, U.S.A.

- Revascularization – capillaries to large vessels: current research, clinical applications and Viro and in future directions -

Dr. Ian Liao

Professor, Department of Applied Chemistry and Department of Biological Science and Technology, National Chiao Tung University, Taiwan

- Shedding Light on Cardiovascular Research Using Zebrafish as A Model Organism -

Dr. Sjeff Verbeek

Associate Professor, Department of Human Genetics, Leiden University Medical Center, The Netherlands

- Genome Engineering Today: The sky is the limit? -

Dr. Alfred Yu

Associate Professor, Department of Electrical and Computer Engineering, University of Waterloo, Canada

- Towards Beside Visualization of Complex Flow Dynamics Using High Frame Rate Ultrasound -

11th TOIN International Symposium on Biomedical Engineering (2016)

Dr. Peter A. Lewin

Richard B. Beard Distinguished University Professor, Electrical and Computer Engineering and Biomedical Engineering

Director, Biomedical Ultrasound Research and Education Center

Drexel University, U.S.A.

- Quality of Life Enhancement: Low Frequency (20 kHz), Low Intensity (100 mW/cm²) Ultrasound Treatment of Chronic Wounds -

Dr. Seyedeh Moosavi Nejad

Senior Researcher, Department of Anatomy, School of Medicine, Fukuoka University, Japan

- Current Trends in Reversible Cell Membrane Manipulation -

Dr. Khalid M. Lodhi

Associate Professor, Forensic Biology

Director, Forensic Science Program, Department of Biological Sciences

Fayetteville State University, U.S.A.

- Role of Biomedical Engineering in the Advancement of Forensic DNA Typing-Past, Present, and Future Directions -

Dr. Akira Kato

Associate Professor, Center for Biological Resources and Informatics, Tokyo Institute of Technology, Japan

- Diversity of Magnesium Transporters Involved in Magnesium Homeostasis -

12th TOIN International Symposium on Biomedical Engineering (2017)

Dr. Christopher Druzgalski

Professor, Department of Electrical Engineering, California State University, Long Beach, U.S.A.

- Bioengineering Human senses -Developments and Trends -

Dr. Xin Zhu

Senior Associate Professor, Biomedical Information Technology Lab, The University of Aizu, Japan

- Computer Simulation of Heart : from Cell to Beside -

Dr. Piotr Kielczynski

Professor, Institute of Fundamental Technological Research, Polish Academy of Sciences, Poland

- Love Surface Wave Biosensors -

Dr. Moo Joon Kim

Professor, Department of Physics, Graduate School, Pukyong National University, Korea

- Aqueous Ultrasonic Dispersion with Acoustic Streaming -