International Symposium on Advanced Biomaterials
<Go Beyond the Limits of Current Biomedical Applications>

Nomi, Ishikawa, Japan Advanced Institute of Science and Technology (JAIST)
November 24th, 2022

JAIST will organize an international symposium on Advanced Biomaterials with a subtheme of <Go Beyond the Limits of Current Biomedical Applications>. Over the last few decades, advances in biomaterials have made a great impact on all aspects of medicine, tissue engineering, drug delivery, immune engineering, and medical devices, according to progress in medicine, biochemistry, material science, and pharmaceutics. Scientists have been vigorously challenging the unmet needs of the current therapies by deliberating innovative designs for promising therapies and improved treatment. Renowned speakers will share their recent achievements in the symposium and provide the opportunity to discuss the current state-of-the-art design and application of biomaterials and their limitations to be resolved.

The symposium will be held in a hybrid way, including onsite (MS hall, JAIST) and on WEBEX online platform. The registration fee is waived. However, participants need to be registered before 18th November 2022 so that the details, such as WEBEX link, can be sent. Please click the register link below to proceed.

Click here to register!

Motoichi Kurisawa
Chair, International Symposium on Advanced Biomaterials 2022
Professor, Graduate School of Advanced Science and Technology,
Japan Advanced Institute of Science and Technology

Symposium Programme

Symposium open 8:00

Opening Remark 8:30-8:40
Motoichi Kurisawa, JAIST

KL1: Keynote Lecture 8:40-9:20
Myron Spector (Harvard Medical School, USA)

Injectable Biopolymer Gels for the Treatment of Central Nervous System Problems: Stroke, Spinal Cord Injury, and Retinal Disease

IL1: Invited Lecture 9:20-9:50
Hak Soo Choi (Harvard Medical School, USA)

Shine a Light on Cancer: Bioengineering and Nanomedicine

Break 9:50-10:10

IL2: Invited Lecture 10:10-10:40
Akihiko Kikuchi (Tokyo University of Science)

Stimuli-Responsive Particles as Biomaterials

Il3: Invited Lecture 10:40-11:10
Kazuaki Matsumura (JAIST)

Self-degradable hydrogels for biomedical applications

IL4: Invited Lecture 11:10-11:30
Yuki Nagao (JAIST)

Pressure Sensitive Lyotropic Liquid Crystal

Lunch break -13:00

KL2: Keynote Lecture 13:00-13:40
Ki Dong Park (Ajou University, Korea)

Enzyme-Mediated Modification of Biomaterial Surfaces for Therapeutic Applications

IL5: Invited Lecture 13:40-14:10
Tetsuji Yamaoka (National Cardiovascular Center)

High Pressure Engineering in Regenerative Medicine

IL6: Invited Lecture 14:10-14:40
Yuichi Ohya (Kansai University)

Biodegradable Injectable Polymer Systems Exhibiting Temperature-Responsive Covalent Gelation for Biomedical Materials

Break 14:40-15:00

IL7: Invited Lecture 15:00-15:30
Kang Moo Huh (Chungnam National University, Korea)

Glycol Chitosan Thermogels and Their Biomedical Implications

IL8: Invited Lecture 15:30-16:00
Nobuhiro Nishiyama (Tokyo Institute of Technology)

Novel Core-Shell Design for Smart Polymeric Micelles

IL9: Invited Lecture 16:00:-16:30
Eijiro Miyako, JAIST

Bio Symphonic System Using Functional Materials

Closing Remark 16:30