

Plenary keynote, plenary lectures, and oral presentations on Nov. 28th (Mon)

Nov. 28th (Mon) 9:05-10:25

Plenary Keynote & Plenary Lectures [Chairman: Akihiko Kikuchi]

PLK1: Cell Sheet Tissue Engineering from Basic to Clinical

Teruo Okano [Tokyo Women's Medical University]

PL1: Supramolecular Nanostructures for Regeneration and Systemic Therapies

Samuel I. Stupp [Northwestern University]

PL2: Interfacial Proteins and Surface Characterization

Buddy D. Ratner [University of Washington]

Nov. 28th (Mon) 10:40-11:48

Oral Presentations [Chairman: Masaru Tanaka]

OA1: Thermoresponsive core-corona type nanoparticles for diagnosis and controlled phagocytosis

Akihiko Kikuchi [Tokyo University of Science]

OA2: Fluorescence Imaging of Human Cancer Tissues Using Nanobiotechnology

Kohsuke Gonda [Tohoku University]

OA3: Design of Blood Compatible Polymers Based on the Biomimetic Intermediate Water Concept

Masaru Tanaka [Kyushu University and Yamagata University]

OA4: Preparation of Polymeric Scaffolds and Biomimetic Matrices for Tissue Engineering

Guoping Chen [National Institute for Materials Science]

OA5: Temperature-responsive Biodegradable Injectable Polymer Systems Exhibiting Longer Duration Time of Gel State

Yuichi Ohya [Kansai University]

OB1: Analysis of Extracellular Matrix Roles on Chemoresistance Acquisition during Tumor Progression Using Staged Tumorigenesis-Mimicking Matrices

Takashi Hoshiba [Yamagata University]

Nov. 28th (Mon) 13:00-14:00

Plenary Lectures [Chairman: Yukio Nagasaki]

PL3: The Evolution of Non-fouling Surfaces

Allan S. Hoffman [University of Washington]

PL4: Very High Capacity Polymeric Micelles for Drug Delivery

Alexander Kabanov [University of North Carolina at Chapel Hill]

PL5: Replenishable Bioinert Surfaces

Ronald A. Siegel [University of Minnesota]

Nov. 28th (Mon) 14:00-15:00

Oral Presentations [Chairman: Kazuo Sakurai]

OA6: Novel Synthesized Radical-Containing Nanoparticles Limits Infarct Size Following Ischemia and Reperfusion in Canine Hearts – Role of Nitric Oxide

Masafumi Kitakaze [National Cerebral and Cardiovascular Center]

OA7: A Novel Polysaccharide Carrier for Functional Oligonucleotides: Immunocytes Targeting through Dectin-1

Kazuo Sakurai [University of Kitakyushu]

OA8: Design of Responsive Gels Using Dynamic Crosslinks and Their Biomedical Applications

Takashi Miyata [Kansai University]

OA9: Programmed 5-Aminolevulinic Acid Prodrug Nanocarriers for Targeted Photodynamic Cancer Therapy

Jian Ji [Zhejiang Univeristy]

OA10: Bifunctional Platinated Nanoparticles for Photo-Induced Tumor Ablation

Huabing Chen [Soochow University]

Nov. 28th (Mon) 15:10-15:42

Oral Presentations [Chairman: Naoya Takeda]

OB2: Reversible Controls of Wettability and Cell Adhesion of Photoresponsive Surface via Dynamic Conformational Change of Spiropyran-conjugated Block Copolymer

Naoya Takeda [Waseda University]

OB3: Multimeric Alpha Helical Amphipathic Peptides Can Penetrate Cells at Nanomolar Concentrations with Therapeutic Cargos

Yan Lee [Seoul National University]

OB4: Polypept(o)ides: Combining Polypeptoids with Polypeptides

Matthias Barz [Johannes Gutenberg-Universität]

OB5: Zwitter-Ionic Hydrogels as Anti-Fouling Coatings

Hsi-Min Chan [Institute of Bioengineering and Nanotechnology]

Nov. 28th (Mon) 16:00-17:00

Plenary Lectures [Chairman: Atsushi Harada]

PL6: Nanoparticle Oral Delivery by Bile Acid Transporter Mediation

You Han Bae [University of Utah]

PL7: Multifunctional Envelope-type Nano Device for gene delivery: Concept and Application for Nanomedicine

Hideyoshi Harashima [Hokkaido University]

PL8: Nanoparticle Exploration of Tumor Microenvironment

Leaf Huang [University of North Carolina at Chapel Hill]