

Plenary lectures, and oral presentations on Nov. 29th (Tue)

Nov. 29th (Tue) 9:00-10:00

Plenary Lectures [Chairman: Yuichi Yamasaki]

PL9: BIORESPONSIVE NANOSYSTEMS FOR THERANOSTICS AND EXOGENOUS TRIGGERED DRUG DELIVERY

Jan Feijen [Soochow University and University of Twente]

PL10: Chemical evolution of sequence-defined carriers for nucleic acid and protein delivery

Ernst Wagner [Ludwig-Maximilians-Universität]

PL11: Local drug release from medical devices to improve implant performance

David W. Grainger [University of Utah]

Nov. 29th (Tue) 10:15-11:15

Oral Presentations [Chairman: Atsushi Maruyama]

OA11: Patient-derived Xenograft (PDX) clinical trials: are they capable of predicting clinical outcomes more accurately?

Margit-Maria Janat-Amsbury [University of Utah]

OA12: Ionic copolymers to enhance biopolymer assemblies and functions

Atsushi Maruyama [Tokyo Institute of Technology]

OA13: Emerging Polyrotaxanes with Supramolecular Frame as Advanced Biomaterials

Nobuhiko Yui [Tokyo Medical and Dental University]

OA14: Nanostructured Biomaterials for Medical and Biological Applications

Jackie Y. Ying [Institute of Bioengineering and Nanotechnology]

OA15: Molecularly imprinted nanogels for albumin acquire stealth property in vivo

Toshifumi Takeuchi [Kobe University]

Nov. 29th (Tue) 11:15-11:48

Oral Presentations [Chairman: Jun Nakanishi]

OB6: Magnetic hybrid nanoparticles carrying VEGF siRNA for gene silencing in breast cancer

Frederico Pittella [Federal University of Juiz de Fora (UFJF)]

OB7: Cell Apoptosis-Mimicking Responsive Asymmetric Polymersomes with a Triggered Flip-Flop of the Cell-Penetrating Inner Shells

Zhishen Ge [University of Science and Technology of China]

OB8: Development of photoactivatable substrates and their applications to collective cell migration studies

Jun Nakanishi [National Institute for Materials Science (NIMS)]

OB9: Development of Convenient and Efficient Methods for Detection and Capture of Circulating Tumor Cells in Blood

Shin Aoki [Tokyo University of Science]

Nov. 29th (Tue) 13:00-14:10

Plenary Lectures [Chairman: Kanjiro Miyata]

SL: Complexity of Human Cancer and Simplicity of Human Thinking. The EPR effect and Therapeutic Effect of P-THP in vivo tumor by Overcoming Multiple Barriers against the Targets

Hiroshi Maeda [Sojo University]

PL12–13: Ligand-directed Targeting and Molecular Imaging in Translational Medicine

Renata Pasqualini [University of New Mexico]

Wadih Arap [University of New Mexico]

Nov. 29th (Tue) 14:10-14:46

Oral Presentations [Chairman: Yoshiki Katayama]

OA16: Construction of Three-dimensional Vascularized Tissue Models using Layer-by-Layer Technique for Drug Development and Regenerative Medicine

Mitsuru Akashi [Osaka University]

OA17: Amphiphilic Self-Nanogel DDS for immunotherapy

Kazunari Akiyoshi [Kyoto University]

OA18: Enhancement of EPR effect in nanomedicine with nitric oxide-releasing liposome

Yoshiki Katayama [Kyushu University]

Nov. 29th (Tue) 15:06-15:46

Oral Presentations [Chairman: Takeshi Mori]

OB10: Sonodynamic Therapy using Epirubicin-incorporating Drug Delivery System and Focused Ultrasound

Masanori Maeda [Tokyo Women's Medical University]

OB11: A New Construction of Antibody-Epirubicin Conjugate

Jiyuan Yang [University of Utah]

OB12: Photo-fabricated semi-3D microstructures composed of hydrogel sheet

Kimio Sumaru [National Institute of Advanced Industrial Science and Technology]

OB13: Non-fouling and functional poly(carboxybetaine) coating via a photo-crosslinking process and its application in tissue engineering

Jiashing Yu [National Taiwan University]

OB14: A minimal mimic of transmembrane proteins

Takeshi Mori [Kyushu University]

Nov. 29th (Tue) 15:46-16:26

Oral Presentations [Chairman: Tomohiro Konno]

OB15: Cell function controllable, cytocompatible and reversible forming phospholipid polymer hydrogels

Tomohiro Konno [The University of Tokyo]

OB16: Smart nanofibers for stick-on anticancer treatment

Mitsuhiro Ebara [National Institute for Materials Science (NIMS)]

OB17: Simultaneous quantitative analysis of nanomedicines and free drugs by HPLC using a silica monolithic column

Masaru Kato [The University of Tokyo]

OB18: Polymer-concentrated surfaces that suppress platelet adhesion

Takashi Aoki [Kyoto Institute of Technology]

OB19: Small Volume Cultures Make a Big Difference on Cell Phenotype and Function

Alexander Revzin [Mayo Clinic]

Nov. 29th (Tue) 16:40-17:40
Plenary Lectures [Chairman: Kensuke Osada]

PL14: A Library-based Approach to Realize Intraoperative Rapid Imaging of Tiny Tumors by Novel Fluorogenic Probes for Aminopeptidases

Yasuteru Urano [The University of Tokyo]

PL15: Gas Generating Nanoparticles for Theragnosis

Ick Chan Kwon [Korea Institute of Science and Technology (KIST)]

PL16: Carbonate Apatite-Nano Particle is The Last Answer for GDS in Nanomedicine

Toshihiro Akaike [Foundation for Advancement of International Science]