

The 5th Global COE International Symposium Program

“Frontier in Biomaterials Science and Technology for Regenerative Medicine and Gene/Drug Delivery”

September 10th	
9:50-10:00	Opening remark by Toshihiro Akaike and Tomoya Kitazume
10:00-10:40	Detection and characterization of elementary events underlying force generation in neuronal lamellipodia Vincent Torre (Italian Institute of Technology, Italy)
10:40-11:10	Periostin in tissue regeneration, which promotes cell migration in cardiac healing, and enhances collagen cross-linking in bone formation Akira Kudo (Tokyo Institute of Technology, Japan)
11:10-11:20	Break
11:20-12:00	Intelligent Surface for Cell Sheet Tissue Engineering Teruo Okano (Tokyo Women's Medical University, Japan)
12:00-12:40	Cadherin-Matrix Engineering for Control of ES/iPS Cells Proliferation and Differentiation Toshihiro Akaike (Tokyo Institute of Technology, Japan)
12:40-13:50	Lunch
13:50-14:30	Generation of Blood from Pluripotent Stem Cells Hiromitsu Nakauchi (The University of Tokyo, Japan)
14:30-15:10	Supramolecular Structures of Block Copolymers as Smart Nanodevices for Gene and Drug Delivery Kazunori Kataoka (The University of Tokyo, Japan)
15:10-15:20	Break
15:20-16:00	Targeted Drug Delivery : The next advances to be made Kinam Park (Purdue University, U.S.A.)
16:00-16:30	Polysaccharide nanogel engineering for protein delivery Kazunari Akiyoshi (Kyoto University, Japan)
16:30-17:10	A Novel Protein Delivery Platform based on Single – Protein - Nanocapsules Yunfeng Lu (University of California Los Angeles, U.S.A.)

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September 11th	
10:00-10:40	Strategies toward regeneration of damaged CNS using iPS cells Hideyuki Okano (Keio University, Japan)
10:40-11:10	Liver stem/progenitor cells and their niche cells Atsushi Miyajima (The University of Tokyo, Japan)
11:10-11:20	Break
11:20-12:00	Tunable Elastin-like Polypeptides for Biomedicine and Biotechnology Dong Woo Lim (Hanyang University, Korea)
12:00-12:30	Design and Construction of Multifunctional Proteins for Tissue Engineering Eiry Kobatake (Tokyo Institute of Technology, Japan)
12:30-13:40	Lunch
13:40-14:20	Tailored Dendritic and Protein-based Hybrid Materials for Drug Delivery and Bioimaging Applications Tanja Weil (Ulm University, Germany)
14:20-14:50	Cationic Comb-Type Copolymer to Manipulate DNA and Peptide Assemblies Atsushi Maruyama (Kyusyu University, Japan)
14:50-15:00	Break
15:00-15:30	High hepatic Potentials in Liver tissue Flow-culture system using murine or human ES/iPS cell Yoh-ichi Tagawa (Tokyo Institute of Technology, Japan)
15:30-16:00	Preservation of Hematopoietic Stem Cells from Umbilical Cord Blood Stored in a Surface Derivatized with Polymeric Nanosegments Akon Higuchi (National Central University, Taiwan)
16:00-16:30	DNA and siRNA Delivery Using Degradable Poly(amino ester)s <i>in vitro</i> and <i>in vivo</i> Chong-Su Cho (Seoul National University, Korea)
16:30-16:40	Closing remark by Makio Tokunaga