The 6th International Symposium on Smart Biomaterials

September 9th, 2019

Opening **Chair: M. Ebara**

10:30 - 10:35 Welcome addresses
Tomonobu Nakayama, Deputy Director, MANA, NIMS

10:35 - 10:40 Scope
Mitsuhiro Ebara, Group Leader, MANA, NIMS

Plenary 1: **Chair: M. Ebara**

10:40 - 11:25 *Biomaterials and Biotechnology--Now and in the Future*
Allan S. Hoffman, Department of Bioengineering, University of Washington

11:25 - 11:35 **Group Photo**

11:35 - 12:30 **Lunch**

Plenary 2: **Chair: G. Chen**

12:30 - 13:15 *Engineering Polymer Therapeutics for Infectious Disease and Global Health*
Patrick S. Stayton, Department of Bioengineering, University of Washington

Session 1:

13:15 - 13:45 *MPC Polymers as Smart Biomaterials*
Kazuhiko Ishihara, Department of Bioengineering, University of Tokyo

13:45 - 14:15 *Design of Molecular Self-assembling Drugs*
Yukio Nagasaki, Department of Materials Science, University of Tsukuba

14:15 - 14:45 *Strategical Design of Smart Biomaterials Using Dynamic Structures*
Takashi Miyata, Department of Chemistry & Materials Engineering, Kansai University

14:45 - 14:55 **Coffee Break**

Plenary 3: **Chair: K. Uto**

14:55 - 15:40 *Formulation of Biomedical Nanoassembly for Cancer Immunotherapy and Anti-inflammation*
In-Kyu Park: Department of Biomedical Sciences, Chonnam National University

Session 2:

15:40 - 16:10 *Thermoresponsive Degradable Polymers for Preparation of Organic-inorganic Composite Capsules*
Akihiko Kikuchi, Department of Materials Science & Technology, Tokyo University of Science

16:10 - 16:40 *Evolution of Self-oscillating Polymer Gels as Smart Softmaterials*
Ryo Yoshida, Department of Materials Engineering, University of Tokyo

16:40 - 17:10 *Ligand Strategies for Tumor-Targeted Nanomedicines*
Horacio Cabral, Department of Bioengineering, University of Tokyo

17:10 - 17:30 *Regulation of Stem Cell Functions by Micropatterned Surfaces*
Guoping Chen, NIMS

17:30 -17:40 **Closing: Takashi Miyata**

17:45 -19:15 **Banquet**