

Thursday, 24th November, 2016

9:00 **Opening Remark**

Masako YUDASAKA, AIST Japan

Nobutaka HANAGATA, NIMS Japan

9:10 KN1-1 **Fuyuhiko TAMANOI**, UCLA USA

Recent Progress in the Development of Mesoporous Silica Nanoparticles for Cancer Therapy: *Tuning Biodegradability of Mesoporous Silica Nanoparticles*

9:40 KN1-2 **Zdenka KUNCIC**, The Univ. Sydney Australia

A Novel Nanotheranostic Platform For Hybrid PET/MRI

10:10 **Break**

10:20 I1-01 **Chikashi NAKAMURA**, AIST Japan

Functionalized Nanoneedles for Intracellular Analysis of Single Living Cells

10:40 I1-02 **Hideaki YOSHIMURA**, The Univ. Tokyo Japan

Single Molecule Imaging in Living Cells to Reveal the Relationship between Motions and Functions of Biological Molecules

11:00 I1-03 **Kohki OKABE**, The Univ. Tokyo Japan

Thermal Biology by Imaging and Manipulation of Temperature in Single Living Cells

11:20 I1-04 **Takakazu NAKABAYASHI**, Tohoku Univ. Japan

Application of Spectroscopic and Photochemical Techniques to Nanomedicine

11:40 I1-05 **Hideaki KANO**, Univ. Tsukuba Japan

Label-free, Multi-color Imaging of Live Cells and Tissues Using a White-Light Laser Source

- 12:00 **Lunch**
- 13:00 KN1-3 **Peilin CHEN**, Academia Sinica Taiwan
Detection and Isolation of Circulating Tumor Cells
- 13:30 I1-06 **Takashi OHTSUKI**, Okayama Univ. Japan
Photochemical Internalization of Cell Penetrating
Peptide-Cargo-Photosensitizer Conjugates
- 13:50 I1-07 **Chie HOSOKAWA**, AIST Japan
Laser-Induced Perturbation into Molecular Dynamics in
Neuronal Networks
- 14:10 KN1-4 **Koji SHIBASAKI**, Gunma Univ. Japan
TRPV4, a Thermo-Sensor, Regulates Neuronal Excitability in
Brain Temperature Dependent Manner
- 14:40 KN1-5 **Keon-Wook KANG**, Seoul National Univ. Korea
Albumin as Natural Nanoparticles for in Vivo Imaging and Drug
Delivery
- 15:10 **Break**
- 15:20 I1-08 **Takashi UEGUCHI**, NICT Japan
High-field MR Imaging of the Human Brain: Advantages and
Technical Challenges
- 15:40 I1-09 **Tomomi NEMOTO**, Hokkaido Univ. Japan
Two-photon Microscopy improved by Adaptive optics and new
laser technology
- 16:00 I1-10 **Yusuke KATAOKA**, Shimane Univ. Japan
Photofunctional Properties of Cyclometalated Iridium Complexes
Prepared via Postsynthetic Modification

16:20 I1-11 **Eiji NAKATA**, Kyoto Univ. Japan
The Rational Design Strategy for Latent Ratiometric Fluorescent
pH Probes Based on the Self-Assembled SNARF Derivatives

18:00 **Dinner Party**

Friday, 25th November, 2016

- 9:00 PL2-1 **Kazuhiko ISHIHARA**, The Univ. Tokyo Japan
Cytocompatible and Functional Polymer Nanoparticles for
Nanomedicine Molecular Science
- 9:30 I2-01 **Daisuke MIYOSHI**, Konan Univ. Japan
Pseudo-cellular Environmental Systems for Design of
Functional Molecules
- 9:50 I2-02 **Hiromu KASHIDA**, Nagoya Univ. Japan
Synthesis of Serinol Nucleic Acid (SNA) Exhibiting Unique
Functions
- 10:10 I2-03 **Yuzuru IKEHARA**, AIST Japan
Understanding to Develop Treatments for Pancreatic Cancer
Using Cutting-Edge Technologies of Disease Models,
Hemostasis with Cold Atmospheric Plasma, and
Spectrophotometric Imaging in Over-1000nm Near Infrared
- 10:30 **Break**
- 10:40 KN2-1 **Michihiro NAKAMURA**, Yamaguchi Univ. Japan
Photo-biomedical Application of Multifunctional Organosilica
Nanoparticles
- 11:10 I2-04 **Hemanth NOOTHALAPATI**, Shimane Univ. Japan
Recent Advances in Biomedical Applications of Raman
Spectroscopy
- 11:30 I2-05 **Yoshihiro UTO**, Tokushima Univ. Japan
Development of Sonodynamic Therapy for Breast Cancer using
5-aminolevulinic Acid
- 11:50 KN2-2 **Giyoon TAE**, GIST Korea

Tumor Targeted Phototherapy And Imaging Using Various Nanosystems

12:20 **Lunch**

13:20 **Poster Session**

14:50 KN2-3 **Tetsushi SAKUMA**, Hiroshima Univ. Japan
Current Advances and Future Prospects of Genome Editing Technology

15:20 **Break**

15:30 I2-06 **Tomohiro KONNO**, The Univ. Tokyo Japan
Cytocompatible and Reversible Phospholipid Polymer Matrix for Cell Engineering

15:50 I2-07 **Toshihisa MIZUNO**, NITech Japan
Synthesis of Novel Peptide Gemini-surfactants and Application to Membrane Protein Researches

16:10 I2-08 **Hideaki YAMAMOTO**, Tohoku Univ Japan
Structure-function Relationships in Living Neuronal Networks: a Surface Engineering Approach

16:30 I2-09 **Lin JIE**, Shimane Univ. Japan
LSP Effects for Second Harmonic Generation in Silica Coated ZnO Particles

17:30 **Banquet**

Saturday, 26th November, 2016

- 9:00 KN3-1 **Tsuneo URISU**, Nagoya Univ. Japan
Neuronal Network High Throughput Screening
Device-Importance of Micro-Nano Fabrication in Nanomedicine-
- 9:30 I3-01 **Yoko MATSUMOTO**, Sojo Univ. Japan
Inhibitory Effects of Trehalose Liposomes on the Growth of Lung
Carcinoma Cells along with Apoptosis
- 9:50 I3-02 **Yusuke ARIMA**, Kyoto Univ. Japan
Control of Multicellular Aggregate Structure Using Cell Surface
Modification with Recombinant Proteins
- 10:10 I3-03 **Tomohiko YAMAZAKI**, NIMS Japan
Improved Immunostimulatory Activity of Phosphodiester CpG
Oligodeoxynucleotides by G-quadruplex Formation
- 10:30 **Break**
- 10:40 I3-04 **Toshiyuki IKOMA**, Tokyo Institute of Technology Japan
Functionalized Luminescent Hydroxyapatite Nanorods for
Bioimaging
- 11:00 I3-05 **Motohiro TAGAYA**, Nagaoka Univ. of Technology Japan
Surface-engineering of Nanobioceramics for Cell Therapeutics
- 11:20 I3-06 **Masaki MISAWA**, AIST Japan
Cellular Uptake of Gold Nanoparticles for Radiosensitization in
MV- X-ray Radiotherapy
- 11:40 I3-07 **Yuko ICHIYANAGI**, Yokohama National Univ. Japan
Functional Theranostic Magnetic Nanoparticles
- 12:00 I3-08 **Toshihiro AKAIKE**, Biomaterials Center for Regenerative
Medical Engineering Japan

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

12:30 Closing Remark

Masako YUDASAKA, AIST Japan

Nobutaka HANAGATA, NIMS Japan

Intorduction of ISNM11 in Sendai

Kohsuke GONDA, Tohoku Univ. Japan