

# Program

## Friday, August 22, 2014

### 8:40 Opening Remarks

**Masako Kato** (Hokkaido Univ.)

**Huang-Xian Ju** (Nanjing Univ.)

### Oral Session 1 Chair: **Huang-Xian Ju**

- 9:00-9:20 O-1 **Koichiro Ishimori**  
Key Interactions for Electron Transfer from Cytochrome c to Cytochrome c Oxidase in Respiratory Chain
- 9:20-9:40 O-2 **Shou-Jun Xiao**  
DNA/RNA Nanostructures Based on Small Circular DNA Molecules
- 9:40-10:00 O-3 **Kazuyasu Sakaguchi**  
Amino Acid Substitution in Tetramerization Domain of Tumor Suppressor Protein p53 in Tumorigenesis and Evolution
- 10:00-10:20 O-4 **Jian-Xin Li**  
Ursolic Acid Analogs Targeted to Tryptophan Hydroxylase 1 (Tph-1) as Bone Anabolic Agents

Coffee Brake (15 min)

### Oral Session 2 Chair: **Kei Murakoshi**

- 10:35-10:55 O-5 **Kazuki Sada**  
Metal-Organic Framework with Fractal Surface
- 10:55-11:15 O-6 **Huang-Xian Ju**  
Design of Nanoprobes for In Situ Analysis of Cellular Functional Biomolecules and Cancer Therapy
- 11:15-11:35 O-7 **Tetsuya Taketsugu**  
Theoretical Elucidation of Excited-State Elementary Processes: Reaction, Vibration, and Tunneling
- 11:35-11:55 O-8 **Jian-Wei Zhao**  
Computer model simulation study of nanocrystalline silver

Group Photo and Lunch

Oral Session 3 Chair: **Sadamu Takeda**

- 13:30-13:50 O-9 **Zhen Shen**  
Core-Modified Rubyrins Containing Dithienylethene Moieties
- 13:50-14:10 O-10 **Atsushi Miura**  
Dual laser-induced extended phase separation of thermoresponsive poly(N-isopropylacrylamide) in solution under laser trapping
- 14:10-14:30 O-11 **Wei-Wei Zhao**  
Recent advances in photoelectrochemical bioanalysis
- 14:30-14:50 O-12 **Atsushi Kobayashi**  
Syntheses of Flexible Porous Coordination Polymers Composed of Multifunctional Metalloligands

Coffee Brake (15 min)

Oral Session 4 Chair: **Masako Kato**

- 15:05-15:25 O-13 **Goro Maruta**  
Solid-State High-Resolution NMR of Paramagnetic Crystals
- 15:25-15:45 O-14 **Dan-Ke Xu**  
Nanoparticle Probe Fabrication and Application for Aptasensor Arrays
- 15:45-16:05 O-15 **Tamotsu Inabe**  
Soluble Organic-Inorganic Hybrid Semiconductors
- 16:05-16:25 O-16 **Zheng Hu**  
Carbon-based Nanostructures for Energy Conversion and Storage: Synthesis, Performance and Mechanism

Coffee Brake (15 min)

Oral Session 5 Chair: **Jian-Xin Li**

- 16:40-17:00 O-17 **Wei Wang**  
Study of Electrochemical Oxidation of Single Nanoparticles with Plasmonic-based Electrochemical Imaging
- 17:00-17:20 O-18 **Kei Murakoshi**  
Novel Route for Effective Photoexcitation of Nanomaterials
- 17:20-17:40 O-19 **Xing-Hua Xia**  
Bio-inspired Synthesis of Electrocatalysts for Oxygen Reduction
- 17:40-18:00 O-20 **Kohei Uosaki**  
Boron Nitride as Highly Active Electrocatalyst for Oxygen Reduction Reaction - Theoretical Prediction and Experimental Proof

Banquet @ Sapporo Aspen Hotel (19:00-21:00)

## **Saturday, August 23, 2014**

10:30-17:00 Free discussion on projects & mutual collaborations

18:30-20:00 Banquet @ Rusutsu Resort

20:00-22:00 **Poster session**

- P-1 **Shuo Yang**  
Interfacial Electronic Structure of CO Absorbed on Pt Surface in Electrochemical Environment Probed by Double-resonant Sum Frequency Generation Spectroscopy
- P-2 **Yasuhiro Shigeta**  
Ligand Substitution Effects on Vapochromic Diimine Platinum(II) Complexes
- P-3 **Tomonari Ikegami**  
Aliphatic Carboxylic Acid Mediated Growing of Helical Assemblies Composed of Oleate: Mechanistic Study Using pH-Titration
- P-4 **Md. Sirajul ISLAM**  
Motility System for In Vitro Observation of Treadmilling and Elongation of Microtubules by TIRF Microscopy
- P-5 **Gao-Chao Fan**  
A new signal amplification strategy of photoelectrochemical immunoassay for highly sensitive interleukin-6 detection based on TiO<sub>2</sub>/CdS/CdSe dual co-sensitized structure
- P-6 **Tanjina Afrin**  
Cargo Transportation by Biomolecular Motor along Deformed Microtubule Track In Vitro
- P-7 **Pan-Pan Gai**  
NADH Dehydrogenase-like Behavior of Nitrogen-Doped Graphene
- P-8 **Kana Sawaguchi**  
Surface Ligands Dependence of Photocatalytic Hydrogen Evolution Ability of a Combined System of 3d Metal Complex Catalysts and Photosensitizing Quantum Dots
- P-9 **Wen-Jing Bao**  
Surface enhanced infrared absorption spectroscopy as a powerful tool for interfacial bioanalysis
- P-10 **Yukari Sekine**  
Iron Metabolism by Heme Degradation Enzyme, HutZ, in *Vibrio cholera*

- P-11      **Yunlong Chen**  
Protein-Specific Raman Imaging of Cell-Surface Glycans Based on An Ortho SERS Effect
- P-12      **Yuta Kurokome**  
Change of the Intermolecular Interactions and Transformation of the Macroscopic Structures of Oleate Self-Assemblies Triggered by Photoisomerization of Azobenzene Derivatives
- P-13      **Qiu-Mei Feng**  
Disposable paper-based bipolar electrode for sensitive electrochemiluminescence detection of cancer biomarker
- P-14      **Riku Nohara**  
Simultaneous laser-induced microparticle formation and extraction in thermoresponsive polymer/alcohol/water ternary system
- P-15      **Yosuke Sumiya**  
Kinetics Calculation of Global Reaction Route Map: Unimolecular Decomposition of 1,3-Butadiene
- P-16      **Jing Wu**  
Oleanolic Acid Derivatives as Inhibitors of Osteoclast Formation for Osteoporosis
- P-17      **Junya Wada**  
Destabilization of p53 Tetramer Formation by Arginine Methylation
- P-18      **Zhonghui Li**  
Simultaneous Detection of Multiple Harmful Substances in Milk Using a Visual Microarray Screening Assay
- P-19      **XiaoWei Li**  
Enhanced Photo-electrochemical Response of PbS Quantized Nanoparticles excited by Localized Surface Plasmon Resonance
- P-20      **Junqiong Wu**  
Graduate Education and International Exchange at Nanjing University