

## Program

08:30 - 09:00	Registration
09:00 - 09:15	Opening: Prof. Hidenobu Murata/ Dr. Kaito Takahashi
<i>Session Chair</i>	<i>Kaito Takahashi</i>
09:15 - 09:30	Duc-Long Nguyen <i>Strain induced superconductivity of Li intercalated bilayer Boron Phosphide by first principles study</i>
09:30 - 09:45	Kiriko Ishii <i>Development of backflow correlation factor toward accurate anharmonic vibrational state analyses</i>
09:45 - 10:00	Ya-Fen Hsiao <i>High-efficiency photonic memory based on electromagnetically induced transparency</i>
10:00 - 10:30	Break and Group Photo
<i>Session Chair</i>	<i>Hidenobu Murata</i>
10:30 - 10:45	Masahiro Asahara <i>Elucidation of photo-induced trans-cis isomerization of <math>Ru(dbb)_2(CN)_2</math></i>
10:45 - 11:00	Satyanarayana Samireddi <i>Lower symmetry of binary-metal macrocycle-N4 derived electrocatalyst for oxygen reduction reaction</i>
11:00 - 11:15	Hiroki Shiozaki <i>Synthetic studies of polyamine natural product as a possible neurotoxin</i>
11:15 - 11:30	Break
<i>Session Chair</i>	<i>Shinji Nonose</i>
11:30 - 11:45	Shirley Wen-Yu Chiu <i>Determination and Quantification of Biomolecules Responsible for the Biomarkers in the Surface-Enhanced Raman Spectra of Bacteria</i>
11:45 - 12:00	Yu Usui <i>Steric Structures and Proton Transfer Reactions of Insulin and Insulin Chain B Ions</i>

12:00 - 12:15 Be-Ming Chang  
*Fluorescent Nanodiamond-Superparamagnetic Iron Oxide  
Nanohybrids for Dual-Modality Imaging of Human Glioblastoma in  
Mice*

12:15 - 14:00 Lunch

*Lab Tours and Poster Session*

14:00 - 14:45 Lab Tour 1

14:45 - 15:00 Break

15:00 - 15:45 Lab Tour 2

15:45 - 16:00 Poster Preparation (Dr. Poe Lecture Hall)

16:00 - 17:30 Poster Presentation

18:00 - 20:00 Banquet

Poster Presentation

No.	Name	Title
1	Anthony Y. Wu	Subcellular and Whole Animal Imaging of Extracellular Vesicles with Engineered Fluorescent and Bioluminescent Reporters
2	Yuki Kaseya	Effect of amino acid addition on the ion yields of hemoglobin in MALDI MS
3	Shih-Pei Huang	The use of simple principals on Gal-Gal database to identify the structure of oligosaccharides
4	Hoshiyuri Oji	Time-and temperature-resolved proton transfer reactions of multiply-charged cytochrome c Ions
5	Ching-Ya Cheng	Background Estimation and Correction for High-Precision Localization Microscopy
6	Shuntaro Tsukamoto	Studies on Asymmetric Synthesis of Neuroactive Glutamate Analogs
7	Ryo Ishii	Studies on collision induced dissociation of peptide ions in gas phase
8	Sheng Yuan Tzeng	High-resolution laser ionization spectroscopy of titanium and chromium mixed cyclopentadienyl complexes
9	Kaito Dohi	Theoretical analysis of H/D isotope effect on the positron binding to acetaldehyde molecule
10	Yen Hsiu Lin	Direct kinetic measurement of the reaction rate of Criegee intermediates with alcohol
11	Shiho Fujishima	Analysis of Positive- and Negative-ion Water Cluster by Atmospheric Pressure Corona Discharges
12	Atsuki Ichikawa	Theoretical analysis of H/D isotope effect on squaric acid crystals using path integral molecular dynamics method
13	Meng-Ling Liu	Absolute IR absorption cross section of the simplest Criegee intermediate at 1285.7 cm <sup>-1</sup>
14	Shunpei Katagiri	Cooling Effect for Side Chain Lengths of Thermo-Responsive Brush Copolymers
15	Hiroaki Kumada	Theoretical investigation of ice II structure using path integral molecular dynamics method
16	Toshiaki Oku	Cooling Effect based on Bonding Variation of <i>N</i> -Isopropyl Acrylamide with Methyl Methacrylate

17	Benjamin K. Chang	First-Principles Studies of Cubic Sb-Doped GeTe for Thermoelectric Applications
18	Takuya Koide	Theoretical study on the stability of self-assembled water-soluble gear-shaped amphiphile molecules