

SNU-RIKEN Young Investigator Workshop on Molecular Nanospectroscopy

Jan 6, 2017
2F Seminar Room, Nanoscience Building,
RIKEN



09:30 – 09:40	Opening Remarks	Chair Person: Dr. Junepyo Oh
09:40 – 10:00	Dr. Emiko Kazuma (Kim Lab, RIKEN) STM investigation of visible-light-induced molecular photodissociation on metal surfaces	
10:00 – 10:20	Dr. Hiroshi Imada (Kim Lab, RIKEN) Real-space investigation of intermolecular resonance energy transfer	
10:20 – 10:40	Mr. Kensuke Kimura (Kim Lab, RIKEN & Univ. Tokyo) Electron transport via a charged molecule on an ultrathin insulating film	Chair Person: Mr. Inhae Zoh
10:40 – 11:00	Ms. Jooyoun Kang (SNU) In situ observation of charge trap in degraded organic light emitting diode using transient electroluminescence	
11:00 – 11:20	Dr. Norihiko Hayazawa (Kim Lab, RIKEN) Seeing the molecular fingerprints in the nanoscale by tip-enhanced nanospectroscopy	
11:20 – 11:40	Dr. Shinya Tahara (Tahara Lab, RIKEN) Watching the excited-state structural distribution dynamics by femtosecond stimulated Raman spectroscopy	
11:40 – 13:00	Photo & Lunch	Chair Person: Dr. Francesca Celine Insetto Catalan
13:00 – 13:20	Dr. Yasuyuki Yokota (Kim Lab, RIKEN) Development of tip-enhanced Raman spectroscopy based on electrochemical scanning tunneling microscopy	
13:20 – 13:40	Dr. Ken-ichi Inoue (Tahara Lab, RIKEN) Femtosecond hydrogen-bond dynamics of interfacial water revealed by interface-specific ultrafast vibrational spectroscopy	
13:40 – 14:00	Mr. Jong Woo Lee (SNU) Live bio-imaging with a novel pair of fully bio-compatible fluorophores and their anticarcinogenic effect	Chair Person: Mr. Doyk Hwang
14:00 – 14:20	Mr. Keewon Sung (SNU) Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease	
14:20 – 14:40	Ms. Seunghyun Sim (Aida Lab, RIKEN & Univ. Tokyo) Engineering protein nanostructure towards a bio-functional cargo	
14:40 – 15:00	Dr. Young-Jin Kim (Maeda Lab, RIKEN) Development of microRNA detection method with a power-free microfluidic chip	
15:00 – 15:20	Dr. Chia-Chen Chang (Maeda Lab, RIKEN) Colorimetric detection of allergen through catalytic target recycling	
15:20 – 18:00	Lab Tour	
18:00 – 18:30	Poster installation	
18:30 – 21:00	Dinner and Poster session	

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Poster Presentations

- 1 Mr. Eunhak Lim (SNU)
Selective thiolation and photoswitching mechanism of Cy5 studied by time-dependent density functional theory
- 2 Ms. Gi Rim Han (SNU)
Ultrafast dynamics of quinophthalone
- 3 Dr. Rafael Jacubia (Kim Lab, RIKEN)
Towards single molecule nanospectroscopy in LT-UHV environment using STM-TERS
- 4 Dr. Holly Walen (Kim Lab, RIKEN)
Sulfur-induced structural motifs on Cu(111) and Au(111)
- 5 Ms. Sohyeon Bae (SNU)
Photo-degradation of Iridium complex in OLED device
- 6 Mr. Bo Yang (Kim Lab, RIKEN & Saitama University)
Fabrication of sharp Au tips by electrochemical etching and their applications
- 7 Dr. Celine Catalan (Kim Lab, RIKEN)
Temporal and spatial variations in boron-doped diamond surface due to electrolytic corrosion
- 8 Mr. Seiji Kasahara (Kim Lab, RIKEN & Keio University)
Effect of anodic and cathodic treatments on the electrochemical properties of boron-doped diamond electrodes
- 9 Mr. Raymond Wong (Kim Lab, RIKEN & Tokyo Institute of Technology)
Utilizing XPS to probe the electrode-electrolyte interface
- 10 Ms. Jihee Hwang (SNU)
RecO induced Single-strand DNA binding protein(SSB) displacement in Deinococcus radiodurans