The 2nd NanoLSI Symposium in London
- Towards Establishment of New Research Field: Nanoprobe Life Science -

Date: Monday, November 19, 2018
Venue: The Cumberland Hotel
Address: Great Cumberland Place, London W1H 7DL, UK

Timetable:

08:30 am to 09:00 am  Registration and Arrival tea

(MC: Kenji Nakashima, Head of WPI-NanoLSI Administrative Office, Kanazawa University)

09:00 am to 09:05 am  Opening remarks  Yoshihiro Fukumori, PhD  
Vice President of Kanazawa University,  
Deputy Administrative Director of WPI-NanoLSI  
09:05 am to 09:10 am  Opening remarks  Takeshi Fukuma, PhD  
Director of WPI-NanoLSI Kanazawa University

• Session 1 - Chairperson: Assoc. Prof Yasufumi Takahashi (from NanoLSI)
  09:10 am to 09:40 am  Lecture 1-1  Prof Yuri Korchev (from Imperial College London/NanoLSI)  
Nanopipette biosensors for single-cell analysis

  09:40 am to 10:00 am  Lecture 1-2  Assoc. Prof Mikihiro Shibata (from NanoLSI)  
High-speed atomic force microscopy for nano-scale imaging of biological samples

  10:00 am to 10:20 am  Lecture 1-3  Assist. Prof Shinji Watanabe (from NanoLSI)  
Development of High-Speed Ion Conductance Microscope

Tea break, Poster viewing 10:20 am to 10:50 am

• Session 2 - Chairperson: Prof Rikinari Hanayama (from NanoLSI)
  10:50 am to 11:20 am  Lecture 2-1  Invited speaker, Prof Julia Gorelik (from Imperial College London)  
Nanoscale SICM/FRET insights into beta-adrenergic receptor distribution and cAMP compartmentation in cardiac myocytes

  11:20 am to 11:40 am  Lecture 2-2  Prof Takeshi Fukuma (from NanoLSI)  
Three-Dimensional Atomic Force Microscopy for Visualizing Distribution of Water and Molecular Chains at Solid-Liquid Interfaces

  11:40 am to 12:00 pm  Lecture 2-3  Prof Adam S. Foster (from Aalto University/NanoLSI)  
Probing molecular processes at solid-liquid interfaces

12:00 pm to 12:10 pm  Photo Session

Lunch, Poster viewing 12:10 pm to 01:30 pm

• Session 3 - Chairperson: Prof Shigehisa Akine (from NanoLSI)
  01:30 pm to 02:00 pm  Lecture 3-1  Invited speaker, Prof Joshua Edel (from Imperial College London)  
Novel strategies in molecular sensing
02:00 pm to 02:30 pm  Lecture 3-2  Invited speaker, Prof Patrick Unwin (from University of Warwick)
*Multifunctional Nanoscale Imaging with Nanopipettes*

02:30 pm to 02:50 pm  Lecture 3-3  Prof Atsushi Hirao (from NanoLSI)
*Metabolic control of cancer stemness*

02:50 pm to 03:10 pm  Lecture 3-4  Prof Mark MacLachlan (from University of British Columbia/NanoLSI)
*Cellulose Nanocrystals: Materials for Photonic Structures*

**Tea break, Poster viewing**  03:10 pm to 03:40 pm

- **Session 4** - Chairperson: Prof Masanobu Oshima (from NanoLSI)
  03:40 pm to 04:10 pm  Lecture 4-1  Invited speaker, Prof David Klenerman (from University of Cambridge)
*New fluorescence based methods for imaging single molecules*

04:10 pm to 04:40 pm  Lecture 4-2  Invited speaker, Prof Bart Hoogenboom (from University College London)
*Assembly and membrane perforation by immune proteins*

04:40 pm to 05:00 pm  Lecture 4-3  Prof Richard Wong (from NanoLSI)
*The nuclear pore complex: nanomachine as gatekeeper of molecular transport across nuclear membranes*

05:00 pm to 05:20 pm  Lecture 4-4  Prof Kunio Matsumoto (from NanoLSI)
*Macrocyclic Peptide Technology Targeting HGF and MET receptor*

05:20 pm to 05:30 pm  **Closing remarks**  Prof Korchev from Imperial College London
05:30 pm to 05:50 pm  **Break**
05:50 pm to 07:50 pm  **Banquet**  **Toast speech**  Seizo Morita, PhD
Administrative Director of WPI-NanoLSI
**Closing**  Takeshi Fukuma, PhD
Director of WPI-NanoLSI Kanazawa University