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: * Each lecture includes time for Q & A. 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)

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

Nanoscale SICM/FRET insights into beta-adrenergic receptor distribution and cAMP

10:50 am to 11:20 am Lecture 2-1 Invited speaker, Prof Julia Gorelik (from Imperial College London)

compartmentation in cardiac myocytes

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		ted speaker, Prof Patrick Unwin (from University of Warwick) Nanoscale Imaging with Nanopipettes
02:30 pm to 02:50 pm		f Atsushi Hirao (from NanoLSI) of of cancer stemness
02:50 pm to 03:10 pm		Mark MacLachlan (from University of British Columbia/NanoLSI) Tystals: Materials for Photonic Structures
Tea break, Poster viewing 03:10 pm to 03:40 pm		
Session 4 - Chairperson: Prof Masanobu Oshima (from NanoLSI)		
-	Lecture 4-1 Invi	ted speaker, Prof David Klenerman (from University of Cambridge) e based methods for imaging single molecules
04:10 pm to 04:40 pm		ted speaker, Prof Bart Hoogenboom (from University College London) embrane perforation by immune proteins
04:40 pm to 05:00 pm		f Richard Wong (from NanoLSI) e complex: nanomachine as gatekeeper of molecular transport across anes
05:00 pm to 05:20 pm		^f Kunio Matsumoto (from NanoLSI) tide Technology Targeting HGF and MET receptor
05:20 pm to 05:30 pm 05:30 pm to 05:50 pm	-	Prof Korchev from Imperial College London
05:50 pm to 07:50 pm		Toast speech Seizo Morita, PhD Administrative Director of WPI-NanoLSI Closing Takeshi Fukuma, PhD Director of WPI-NanoLSI Kanazawa University