

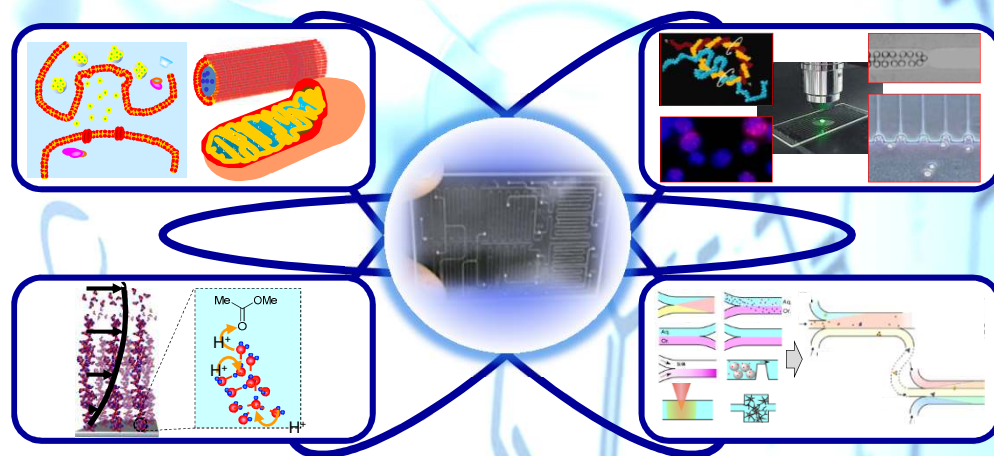
Micro and Extended-Nano Space Chemistry and Perspective of Next-Generation Analytical Devices

Integration of various chemical functions in the micrometer-scale space has developed worldwide and has been widely applied. Kitamori laboratory, School of Engineering, The University of Tokyo, is focusing on extended-nano space located between micro- and nano, and aims at creation of a new academic research field focusing on the transitional area of molecules and continuous fluid. The objectives of this Core-to-Core Program and Specially Promoted Research are elucidation of basic phenomena in physical chemistry and application to analytical chemistry. For these objectives, basic technologies including nanofabrication, fluidic control and detection techniques were developed. As a result, ultimate analytical chemistry such as a single cell and single molecule analysis moves toward fruition and cell biophysics became a target of its application. In this symposium, researchers in the frontier fields of micro- and nano, analytical chemistry, interfacial chemistry, biotechnology and neuroscience are invited to transmit and discuss the latest results for human resource development and international exchange.

Date March 26 (Tue) to 27 (Wed), 2013

Venue Fukutake Hall, The University of Tokyo

Participation: Free of Charge
(Registration required, banquet: ¥1,000)



Program

March 26 (Tue)

Opening	9:00-9:15
Micro- and Nano Analysis	9:15-10:35
Prof. Takehiko Kitamori (Tokyo Univ.) Dr. Hideki Kambara (Hitachi) Dr. Hisashi Shimizu (Tokyo Univ.)	
Micro- and Nano Fluidics	10:50-12:00
Prof. Thomas Laurell (Lund Univ.) Dr. Craig Priest (Univ. South Australia) Dr. Yuriy Pihosh (Tokyo Univ.)	
Extended-Nano Space Fluid Physics	13:30-14:50
Prof. Patrick Tabeling (ESPCI ParisTech) Prof. Kazue Kurihara (Tohoku Univ.) Prof. Yutaka Kazoe (Tokyo Univ.)	
Extended-Nano Space Solution Chemistry	15:05-16:25
Prof. John Ralston (Univ. South Australia) Prof. Tetsuo Okada (Tokyo Tech.) Prof. Takehiko Tsukahara (Tokyo Tech.)	

March 27 (Wed)

Single Cell Analysis Device	9:00-10:30
Prof. Yoshinobu Baba (Nagoya Univ.) Prof. Petra Dittlich (ETH Zurich) Prof. Erik Ullerås (Uppsala Univ.) Dr. Philip Kollmannsberger (ETH Zurich)	
Nanofabrication and Basic Technologies	10:45-11:55
Prof. Ai Qun Liu (Nanyang Technological Univ.) Dr. Sufi Zafar (IBM T.J. Watson Research Center) Dr. Chenxi Wang (Tokyo Univ.)	
Cell Biophysics	13:30-14:50
Prof. Kazuyuki Aihara (Tokyo Univ.) Prof. Hiroyuki Noji (Tokyo Univ.) Prof. Kazuma Mawatari (Tokyo Univ.)	
Short Presentation for Posters	15:05-16:05
Poster Session	16:05-17:35
Closing	17:35-17:50
Banquet and Award Ceremony	18:30-20:30

* All lectures are in English. * Please see the below website for registration.

<http://park.itc.u-tokyo.ac.jp/kitamori/project/>

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