

OIST Mini Symposium**“Current Trends and Emerging Technologies in Nanofluidics and Nanofabrications”**

DATE: Friday, October 30, 2015 – Sunday, November 1, 2015

LOCATION: OIST Main Campus, Seminar Room C209

Program**Day 1 (Oct. 30) Venue: C209 (9:00-Noon), C210 (After lunch)**

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| 9:00–9:30 | Opening remarks (Prof. Amy Shen and Dr. Robert Baughman) |
| 9:30–10:30 | “Micro/nanotechnologies for sensing and cell analysis”
(Prof. Albert van den Berg) |
| 10:30–10:45 | Coffee Break |
| 10:45–11:45 | “High-volume microfluidics for cell-based diagnostics and therapeutics”
(Prof. Jongyoon Han) |
| Noon–14:00 | Lunch and Campus Tour (Speakers/Organizers only) |
| 14:00–15:00 | “Using Nanofluidics to Experimentally Probe the Electric Double Layer”
(Prof. Sumita Pennathur) |
| 15:00–15:15 | Coffee Break |
| 15:15–16:15 | “Electro-microfluidics: a platform for fabrication, characterization and printing”
(Prof. Anderson Shum) |
| 16:15–16:30 | Coffee break |
| 16:30–17:20 | “Development and Application of New Micro and Nanotechnologies to Study Cell Navigation” (Dr. Sébastien Ricoult) |
| 18:00–19:00 | Dinner (Speakers/Organizers only) |

Day 2 (Oct. 31) Venue: C209

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| 9:00–10:00 | “Extended-nano Fluidics and its Unique Characteristics and Applications”
(Prof. Takehiko Kitamori) |
| 10:00–10:15 | Coffee Break |
| 10:15–11:15 | “Microfluidic platforms for biomedical applications” (Prof. Amy Shen) |

- 11:15–11:45 “Opportunities for microfluidics in DNA sequencing” (Prof. Alexander Mikheyev)
- 11:45–12:20 “DNA and RNA Aptamers as Molecular Sensors” (Prof. Yohei Yokobayashi)
- 12:20–13:00 Lunch (Speakers/Organizers only)
- 13:00–14:00 “Fracture Fabrication & Nanoscale Squeezing of Cells, DNA and Chromatin” (Prof. Shuichi Takayama)
- 14:00–15:00 “Nanofabrication for nanorobot propulsion in biofluids” (Prof. Peer Fischer)
- 15:15–18:15 Excursion (Speakers/Organizers only)
- 18:15–19:15 Dinner (Speakers/Organizers only)

Day 3 (Nov. 1) Venue: C209

- 9:30–10:30 “NanoBiodevices for Cancer Diagnosis, Cancer Therapy, and iPS Cell Based Regenerative Medicine” (Prof. Yoshinobu Baba)
- 10:30–11:00 “Effect of Nanoscale Confinement on the Stability of Covalently-grafted, Polymeric Surface Coatings” (Dr. Casey Galvin)
- 11:15–12:15 R&D Discussion
- 12:15–13:15 Interaction Lunch (Speakers/Organizers only)

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