

**OIST Mini Symposium****“Science and Technology at the Interface of Bio-Nano-systems: Challenges and Opportunities”**

DATE: Monday, April 25, 2016 – Wednesday, April 27, 2016

LOCATION: OIST Main Campus, Seminar Room C209 (April 25-26) and C210 (April 27)

Program**Day 1 (Monday, April 25) Venue: C209**

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| 9:15–9:30   | Opening remark (Prof. Amy Shen)  |
| 9:30–10:30  | “Taking Cell Adhesion to the Third Dimension: Photochemistry and Biofunctionalization for defined 3D Cell Culture Scaffolds”<br>(Prof. Martin Bastmeyer) |
| 10:30–10:45 | Coffee Break   |
| 10:45–11:45 | “3D Printed Bionic Nanomaterials” (Prof. Michael McAlpine)   |
| Noon–13:30  | Lunch and Campus Tour (Speakers/Organizers only)   |
| 13:30–14:30 | “Life in the shock wave: Controlling DNA reactions with electric fields”<br>(Prof. Juan Santiago)  |
| 14:30–15:30 | “Sensing with CMOS nanocapacitor arrays: from nanoparticles to living cells”<br>(Prof. Serge Lemay)  |
| 15:30–15:45 | Coffee break   |
| 15:45–16:45 | A new use of sound waves to enhance inhaled stem cell, gene and drug delivery” (Prof. Leslie Yeo)  |
| 16:45–17:15 | “Extensional flow of hyaluronic acid solutions in an optimized microfluidic cross-slot device” (Dr. Simon Haward)  |
| 18:00–19:00 | Dinner (Speakers/Organizers only)  |

**Day 2 (Tuesday, April 26) Venue: C209**

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| 9:00–10:00  | “Microfluidics and carbon dioxide” (Prof. Eugenia Kumacheva) |
| 10:00–10:10 | Coffee Break   |

- 10:10–11:10 “Microfluidic platforms for biomedical applications” (Prof. Amy Shen)
- 11:15–12:10 “Microfluidic devices for biophysical studies and engineering applications of motor proteins” (Prof. Ryuji Yokokawa)
- 12:20–13:00 Lunch (Speakers/Organizers only)
- 13:00–14:00 “Engineering imaging probes and molecular machines for nanomedicine” (Prof. Gang Bao)
- 14:00–14:40 “Imaging neuronal activity in awake mice” (Prof. Bernd Kuhn)
- 15:15–18:15 Excursion (Speakers/Organizers only)
- 18:15–19:15 Dinner (Speakers/Organizers only)

**Day 3 (Wednesday, April 27) Venue: C210**

- 9:30–10:30 “Centrifugal microfluidic device for Raman Imaging and beating motion analysis study of single Cardiomyocytes” (Prof. Eiichi Tamiya)
- 10:30–11:30 “Fully Integrated Lab-on-a-disc for Biomedical Applications” (Prof. Yoon-Kyoung Cho)
- 11:45–13:00 R&D Discussion
- 13:00–14:00 Lunch (Speakers/Organizers only)
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