

Keio University International Symposium on

Advanced Technologies for Mechano-biology and Regenerative Medicine

DATE: Sep. 21st, 2018

PLACE: MMR, Yagami Campus, Keio University, Japan

<https://www.keio.ac.jp/en/maps/yagami.html>

(3-14-1 Hiyoshi, Kouhoku, Yokohama, Kanagawa, 223-8522, Japan)

PROGRAM

September 21st (Fri) 9:30 – 20:00

9:30– 9:40 **Opening Remarks:** Hiroaki Onoe, Keio University

[Invited Lecture session 1] Session chair: Shogo Miyata, Kenjiro Takemura

9:40 – 10:15 **Jun Fujita, Keio University**
Regenerative therapy for heart failure with iPS-derived cardiac spheroid

10:15 – 10:50 **James Friend, University of California, San Diego**
Nanoscale Acoustofluidics

[Invited Lecture session 2] Session chair: Jun Fujita, Kenjiro Takemura

11:05 – 11:40 **Tomas Zwaka, Icahn School of Medicine at Mount Sinai**
Stem Cells and Brain organoids: opportunities and limitations for the study of neurodevelopmental abnormalities

11:40 – 12:15 **Kazuya Kabayama, Osaka University**
Live cell imaging by input control system

[Photo Time & Lunch]

[Invited Lecture session 3] Session chair: Noriko Hiroi, Hiroaki Onoe

13:30 – 14:05 **John Lock, University of New South Wales**
Systems Microscopy analysis of phenotypic plasticity in the actin cytoskeleton based on large-scale compound screening

14:05 – 14:40 **Michinao Hashimoto, Singapore University of Technology and Design**
Additive Manufacturing for Fabrication of Microfluidic Devices

[Poster Session & Coffee Break]

14:45– 16:15 **Poster Session**

[Invited Lecture session 4] Session chair: Kenjiro Takemura, Yuta Kurashina

- 16:20 – 16:55 **Hyung-Suk Lee, Yonsei University**
Multi-scale Biomechanics of Actin: Single Molecule to Cross-linked Network
- 16:55 – 17:30 **Noriko Hiroi, Tokyo University of Science, Yamaguchi**
Quantitative analysis of sensitivity to Wnt3a gradient in determination of the pole-to-pole axis of mitotic cells by using a microfluidic device
- 17:30 – 17:35 **Closing Remarks:** Yuta Kurashina, Keio University
- 18:00 – 20:00 **Banquet & Award Ceremony**