18th Surugadai International Symposium & Joint Usage/Research Program of Medical Research Institute Symposium

“The Future of Biomedical Research Pioneered by Advanced Technologies”

Monday, November 18, 2019  13:00 - 17:55
Akio Suzuki Memorial Hall M&D Tower 2F

13:00 - 13:05 Opening Remarks
Dr. Fumitoshi Ishino (Director, Medical Research Institute, TMDU)

Session 1  The Frontier of Genome Editing Technology
13:05 - 14:40
Chair: Dr. Kohichi Tanaka (Medical Research Institute, TMDU)

13:05 - 13:40  Dr. Hiroshi Nishimasu
(Department of Biological Sciences, Graduate School of Science, The University of Tokyo)
Title: Structure and engineering of CRISPR-Cas9

13:40 - 14:10  Dr. Keiichiro Suzuki
(Institute for Advanced Co-Creation Studies, Osaka University)
Title: Development of in vivo genome-editing technologies and application for genome-editing therapy

14:10 - 14:40  Dr. Tomomi Aida
(1) McGovern Institute for Brain Research, Massachusetts Institute of Technology,  
(2) Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard)
Title: Evidence, molecular basis, and cellular dynamics of genomic self-repair in mammalian zygotes

14:40 - 15:00 Coffee Break

Session 2  The Frontier of Single Cell Biology and Technology
15:00 - 16:30
Chair: Dr. Itoshi Nikaido (RIKEN)

15:00 - 15:30  Dr. Saskia Freytag
(Lister Lab, Harry Perkins Institute of Medical Research)
Title: Addressing computational challenges of the analysis of single cell RNA-sequencing data

15:30 - 16:00  Dr. Hironobu Fujiwara
(RIKEN Center for Biosystems Dynamics Research)
Title: A new model for coordinated hair follicle morphogenesis and stem cell induction
16:00 - 16:30  Dr. Naganari Ohkura  
(Immunology Frontier Research Center, Osaka University)  
**Title:** Regulatory T cell manipulation for enhancing anti-tumor immune activity

16:30 - 16:50 Coffee Break (Group Photo at Foyer)

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**Session 3**  The Frontier of iPS Technology  
16:50 - 17:50  
**Chair:** Dr. Tetsushi Furukawa (Medical Research Institute, TMDU)

16:50 - 17:20  Dr. Hideki Masaki  
(Department of Stem Cell Therapy, Institute of Medical Science, University of Tokyo)  
**Title:** Creating human organs in animal body

17:20 - 17:50  Dr. Jun K. Takeuchi  
(Medical Research Institute, Tokyo Medical and Dental University)  
**Title:** The Next Generation for Heart Research with Direct-Programming/Reprogramming Technologies

17:50 – 17:55  **Closing Remarks**  
Dr. Toshiaki Ohteki (Division Chief, Medical Research Institute, TMDU)