

23rd Surugadai International Symposium Program

“ Transforming Life Sciences through Robotic Automation and Artificial Intelligence ”

Tuesday, December 9, 2025 13:00-17:30

Akio Suzuki Memorial Hall M&D Tower 2nd floor, Science Tokyo (Yushima Campus)

1-5-45 Yushima, Bunkyo-ku, Tokyo

13:00-13:05	Opening Remarks Dr. Takehiko Sasaki (Director, Medical Research Laboratory, Institute of Science Tokyo)
Moderated by Dr. Mariko Yamane (Institute of Science Tokyo)	

Session 1: 13:05-15:00

Chaired by Dr. Itoshi Nikaido and Dr. Yuta Kochi (Institute of Science Tokyo)	
13:05-13:45 (40 min)	Gearing up for the acceleration: From High-Fidelity Organ-on-Chip Systems to the Self-Driving Human Organ Mimicry Platform Dr. Yimu Zhao (Staff Scientist and Principal Investigator, Acceleration Consortium/University of Toronto)
13:45-14:10 (25 min)	The Living Laboratory: Fully Automated Science Powered by AI Agents and Physical AI Dr. Genki Kanda (Professor, Medical Research Laboratory, Institute of Science Tokyo)
14:10-14:35 (25 min)	Machine Learning for Robots: From Perception to Action Dr. Asako Kanezaki (Associate Professor, Institute of Science Tokyo/RIKEN AIP)
14:35-15:00 (25 min)	Empowering Researchers with AI-Powered Automation Dr. Kazue Mizuno (Engineering Manager, Health & Wellness team, AI Products & Solutions division, Preferred Networks, Inc.)
15:00-15:30	Coffee break including group photo

Session 2: 15:30-17:25

Chaired by Dr. Yuta Kochi and Dr. Itoshi Nikaido (Institute of Science Tokyo)	
15:30-16:10 (40 min)	The Cutting Edge of AI in the Healthcare and Life Sciences Dr. Yurika Osuji (Clinical Specialist, Google for Health)
16:10-16:35 (25 min)	AI-Driven Insights into Protein Complexes and Dynamics Dr. Ryuichiro Ishitani (Professor, Medical Research Laboratory, Institute of Science Tokyo)
16:35-17:00 (25 min)	Closed-loop Protein Design with Generative AI and Molecular Dynamics Dr. Shuto Hayashi (Associate Professor, Medical Research Laboratory, Institute of Science Tokyo)
17:00-17:25 (25 min)	Automating Molecular Discovery with an Integrated Platform of AI, Robotics, and 3D-Phenomics Dr. Hideyuki Shimizu (Professor, M&D Data Science Center, Institute of Science Tokyo)
17:25-17:30	Closing Remarks Dr. Itoshi Nikaido (Professor, Medical Research Laboratory, Institute of Science Tokyo)