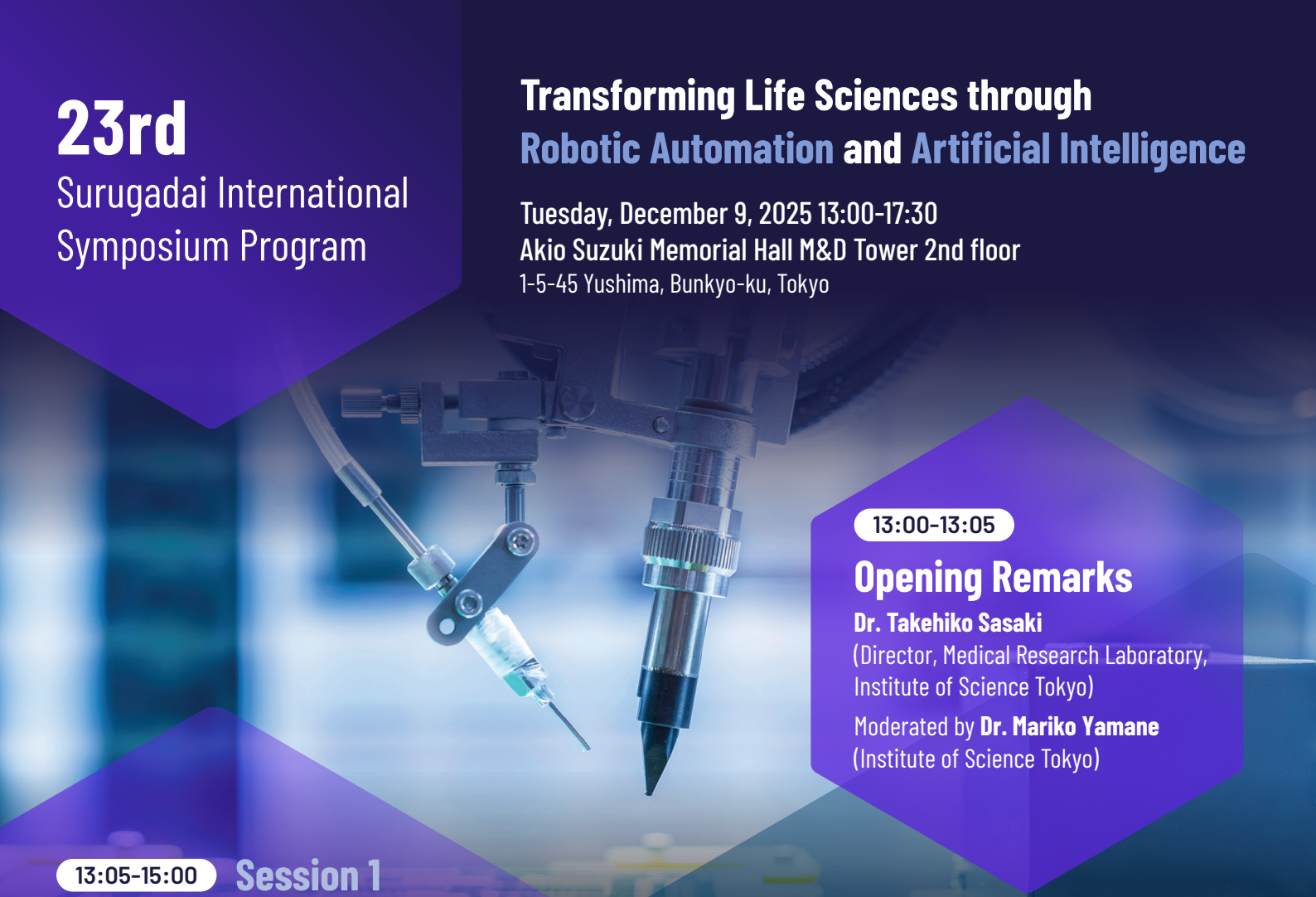
23rd
Surugadai International Symposium Program

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
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)

13:05-15:00 Session 1
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**

15:30-17:25 Session 2
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)

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