

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. Kazuo 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)

