

The University of Osaka Symposium
 4th WPI-PRIME International
 Symposium

Feb.6 (Fri) 9:00-18:15



"AI and Metaverse Frontiers in Biomedical Innovation"

Opening

9:30- 9:35 **Opening remarks by Atsushi Kumanogoh (President, The University of Osaka)**

9:35- 9:40 **Congratulatory speech by Akira Ukawa (WPI Promotion Center, JSPS)**

9:40- 9:50 **Opening by Kohji Nishida (Center Director)**

Session 1	AI Frontier 1 - Metaverse	Chairperson: Ai Shinobu
10:00-10:25	Development and Implementation of a Metaverse-based Rework Program: Current Practice and Future Perspectives	Masayo Matsumura
10:25-10:50	Toward the Human Metaverse: A Collaborative, Instructive, and Synchronized Biomedical Digital Twin Platform.	Shingo Tsukada
Keynote Lecture 1 10:50-11:35	Next-Generation Medical DX: Integrating Real-World Data, Generative AI, and Wearables for a Total Healthcare Solution	Yuichiro Yano Chairperson: Hajime Nagahara
11:35-11:50	Flash Talk by Poster Presenters	
11:50-13:30	Lunch Break/ Poster Session	
Session 2	AI Frontier 2 - AI for Medicine	Chairperson: Elisa Domínguez-Hüttiger
13:30-13:55	Developing Medical AI via a Human-in-the-Loop Approach	Kazuma Kobayashi
13:55 -14:20	Artificial Intelligence for spatial omics	Emmanuel Barillot
Keynote Lecture 2 14:20-15:05	AI, Foundation Models, and Digital Twins: Redefining Biomedical Innovation for Precision Health	Eiryo Kawakami Chairperson: Vivian Hwa
15:05-15:25	BREAK	
Session 3	AI Frontier 3 - AI for Science	Chairperson: Ayako Yachie
15:25-15:50	Automating DNA Design Using Conversational AI	Hideto Mori
15:50-16:15	Accelerating Antibody Discovery with Experiment-Informed Large Language Models and Autonomous AI Agents	Satoshi Tamaki
16:15-16:30	BREAK	
Session 4	AI Frontier 4 - Human-AI Coexistence	Chairperson: Kazuto Kato
16:30-16:55	Toward Secure Utilization of Human Genome Data	Kana Shimizu
16:55-17:20	The Power and Risks of AI in Medical Research	Eiji Aramaki
Keynote Lecture 3 17:20-18:05	The Nobel Turing Challenge: Creating Autonomous AI Systems as the Engine of Scientific Discovery for Human Metaverse Medicine	Hiroaki Kitano Chairperson: Takanori Takebe
Closing		
18:05-18:15	Closing remarks by Takao Onoye (Executive Vice President, The University of Osaka)	
18:15-19:00	Exchange event @Saji Keizo Memorial Hall	

*Contents are subject to change.