



# “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	(TBC)		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-Hüttinger
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		