

OIST-Keio Showcase talk Series 7

# Science meets Society: Frontiers in Interdisciplinary Approaches to Life Sciences

January 31st, 2025

## PROGRAM

9:15 15 Welcome Coffee +Registration

### OPENING

9:30 5 Welcome remarks by Dr. Amy Shen, OIST Provost

9:35 5 Opening remarks by Dr. Satoshi Mitarai, OIST Dean of Research

9:40 15 Introduction of KGRI (Keio university Global Research Institute) by Dr. Teruo Nakatsuma, KGRI Director

### TALK SESSION 1 "Dynamics of Cellular and Molecular Mechanisms"

10:00	20+5	Dr. Tomomi Kiyomitsu	Assistant Professor, OIST	Unexpected features of early embryonic division in medaka	Chair: Dr. KUHN
10:25	20+5	Dr. Kunimichi Suzuki	Junior Principal Investigator, Keio	In situ structural biology: deciphering multi-organ interactions	
10:50	10	Short Break			
11:00	20+5	Dr. Midori Ohta	Principal Investigator, OIST	Mechanisms of centrosome assembly and activation ensuring mitotic fidelity	
11:25	20+5	Dr. Mayumi Oda	Senior Assistant Professor, Keio	Establishment of stable human hepatocyte organoids: epigenomic insights for restoring hepatocyte metabolic function in vitro	
11:50	10	Discussion			
12:00	60	Lunch			

### TALK SESSION 2 "Diversity and Expansion of Life Sciences"

13:00	20+5	Dr. Simone Pigolotti	Professor, OIST	Exponential growth in biology: from microbial cultures to human epidemics	Chair: Dr. HASE
13:25	20+5	Dr. Saacnicteh Toledo Patiño	Principal Investigator, OIST	From Sunlight to Fuel: Optimizing Photosynthesis Through Protein Engineering	
13:50	10	Short Break			
14:00	20+5	Dr. Yoshihiro Itaguchi	Associate Professor, Keio	Tool and body: behavioral approach to embodiment	
14:25	20+5	Dr. Michiyuki Kawakami	Associate Professor, Keio	Development and social implementation of central motor paralysis treatment	
14:50	10	Discussion			
15:00	30	Break			

### TALK SESSION 3 "Advanced Neuroscience and Brain Science"

15:30	20+5	Dr. Bernd Kuhn	Professor, OIST	Imaging neuronal activity with two-photon microscopy in behaving mice	Chair: Dr. AMAGAI
15:55	20+5	Dr. Hiroshi Makino	Professor, Keio	Learning in intelligent systems	
16:20	20	Discussion			

### CLOSING

16:40 5 Closing remarks by Dr. Masayuki Amagai, Keio Vice President for Research

*\*This program is subject to change without prior notice.*