

OIST x JST Act-X
Joint mini-symposium



“Life and Chemistry”

Monday, Jan 27th 2025

Lab5, Level D, Room L5D23, 13:00 ~ 17:30

Organizer:

Taka-aki Tsunoyama (Staff scientist, OIST, Membrane cooperativity unit)

Takeshi Sawada (Assistant professor, The University of Tokyo, Graduate school of medicine)

Yuuki Horii (Assistant professor, Gifu university, Faculty of applied biological sciences)

Contact to: taka-aki.tsunoyama@oist.jp

Advisory board:

Taisuke Tomita (Professor, The University of Tokyo, Graduate school of pharmaceutical sciences)

Atsuko Sehara (Professor Kyoto University, Institute for life and medical science)

Summary:

This is a joint mini-symposium between OIST and JST Act-X. Act-X is a JST grant program designed to support young researchers. The symposium features four speakers from Act-X's research area, "Life and Chemistry," and four speakers from OIST. While the symposium is titled "Life and Chemistry," the topics covered are quite diverse. The primary aim of this event is to foster meaningful interactions between researchers at OIST and those from outside institutions.

Schedule:

~ 10:30 Act-X attendees' arrival

10:50 ~ 11: 50 Lab tour for Act-X attendees

10:50 ~ 11:10: Masai unit, Zebra fish holding rooms

11:10 ~ 11:30: Imaging section, Common microscope stations

11:30 ~ 11:50: Kusumi unit, Single-molecule imaging stations

12:45 ~ 13:00 Registration

*Please make sure to sign the confidentiality agreement.

13:00 ~ 13:05 Opening remarks

Taisuke Tomita (Professor, The University of Tokyo, Graduate school of pharmaceutical sciences)

13:05 ~ 14:05 Talk session I

15 min presentation, 3 min discussion, 2 min exchanging time

The first bell at 13 min, the second bell at 15 min, and the third bell at 17 min

Chairperson: Takeshi Sawada

1: 13:05 ~ 13:25

Tomomi Kiyomitsu (Assistant Professor, OIST, Cell Division Dynamics Unit)

"Unexpected features of early embryonic division in medaka"

2: 13:25 ~ 13:45

Luis Carretero Rodriguez (Staff Scientist, OIST, Developmental Neurobiology Unit)

“Zebrafish MeCP2 mutation produce behavioral alterations reminiscent of Rett Syndrome”

3: 13:45 ~ 14:05

Yuuki Horii (Assistant Professor, Gifu University)

“Elucidation of hibernation mechanism and its application”

14:05 ~ 14:20 Break

14:20 ~ 15:20 Talk session II

Chairperson: Yusuke Aihara

4: 14:20 ~ 14:40

Mizuki Honda (Assistant Professor, Hiroshima University)

“Imaging-Guided Transcriptomics: A Revolutionary Approach for Targeted Gene Expression Analysis”

5: 14:40 ~ 15:00

Takeshi Sawada (Assistant Professor, The University of Tokyo)

“Prefrontal synaptic regulation of homeostatic sleep pressure”

6: 15:00 ~ 15:20

Tomoyuki Mano (Postdoctoral researcher, OIST, Computational Neuroethology Unit)

“Neural Mechanisms for Polarization Vision in Squid”

15:20 ~ 15:35 Break

15:35 ~ 16:15 Talk session III

Chairperson: Tomoyuki Mano

7: 15:35 ~ 15:55

Yusuke Aihara (Associate Professor, Kobe University)

“Unveiling the multi-functionality of “Plant modification molecules” for their tailor-made regulation”

8: 15:55 ~ 16:15

Saacnicteh Toledo-Patino (Buribushi Fellow, OIST, Molecular Bioengineering Lab)

“From Sunlight to Fuel: Optimizing Photosynthesis Through Protein Engineering”

16:15 ~ 16:30 Break

16:30 ~ 17:10 Poster session

1: Momo Morikawa (Assistant Professor, University of Tsukuba, Institute of Medicine)

“Mitochondrial derived vesicle dynamics in Charcot-Marie-Tooth disease”

2: Naoki Komatsu (Assistant Professor, Department of Histology, Graduate School of Biomedical Sciences, Tokushima University)

“Development of chemogenetic tools for manipulating mTORC1 activity in living cells”

3: Taka-aki Tsunoyama (Staff scientist, OIST, Membrane cooperativity unit)

“iTRVZ: Liquid-like nanoscale signaling platform on the plasma membrane that integrates receptor signals leading to cancer promotion”

4: Saahil Acharya (Postdoc t, OIST, Membrane cooperativity unit)

“SynGAP LLPS Condensates as the Basic Platform for Recruiting PSD95 and Receptor Oligomers for Generating Neuronal Excitatory Synapses”

5: Takahiro Yamamoto (Postdoc, OIST, Cell Division Dynamics Unit)

“KIFC1 function of bipolar spindle formation in early medaka embryos”

6: Kostas Tsaridis (Ph.D. student, OIST, Computational Neuroethology Unit)

“XXX”

7: Peng Zhou (OIST)

“XXX”

8: Iwata-san (xxx)

“XXX”

17:10 ~ 17:20 Closing remarks

Saacnicteh Toledo-Patino (Buribushi Fellow, OIST, Molecular Bioengineering Lab)

18:00 ~ 17:20 Taxi at Lab5

18:20 ~ 20:20 Networking dinner

Izakaya Tarano Me (Ishikawa)

<https://tabelog.com/en/okinawa/A4703/A470302/47006947/>

