

2024年度 第3回 生命科学技术国際卓越講義



World-leading Innovative Lectures
in Life Science & Technology
The University of Tokyo



Curiosity-Driven Research: Constructing and deconstructing RNA granules

Professor Takanari Inoue, Ph.D.

Professor of Cell Biology;
Director Center for Cell Dynamics
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Date: Wednesday, 24th, July, 2024

Time: 15:30 registration

16:00-17:00 Lecture including Questions and Discussions

17:00-17:10 Break

*17:10-17:40 Interview with students and researchers

(*Attending an interview session needs another registration (see your e-mail))

Venue: Seminar room No.6, 13F Faculty of Medicine Experimental Research Bldg.

Hongo- Campus, The University of Tokyo (医学部教育研究棟 13階 第6セミナー室)

Please register by this QR code or clicking the following link

[Registration Form](#)



Abstract:



The function of proteins and nucleic acids within a cell is determined by their primary sequence. Recent work, however, has shown that within living cells the role of many proteins and RNA molecules can be influenced by the physical state in which the molecule is found. More specifically, proteins and RNA molecules can undergo condensation to form non-membrane-bound structures collectively known as RNA granules. Based on chemical and optical genetics schemes, our group recently developed two distinct molecular techniques to either construct or deconstruct RNA granules including stress granules and pathological condensates related to neurodegenerative diseases. I will introduce how we

designed, developed and implemented such techniques, and share biological insights obtained from the unique probing of these redefined subcellular organizations.

Organizer: World-leading Innovative Graduate Study Program for Life Science and Technology

Cooperation: Graduate Program for Leaders in Life Innovation, The University of Tokyo

Clinical Research Promotion Center, The University of Tokyo Hospital

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