Kyoto University On-site Laboratory: IFOM-KU Joint Research Laboratory



General Information

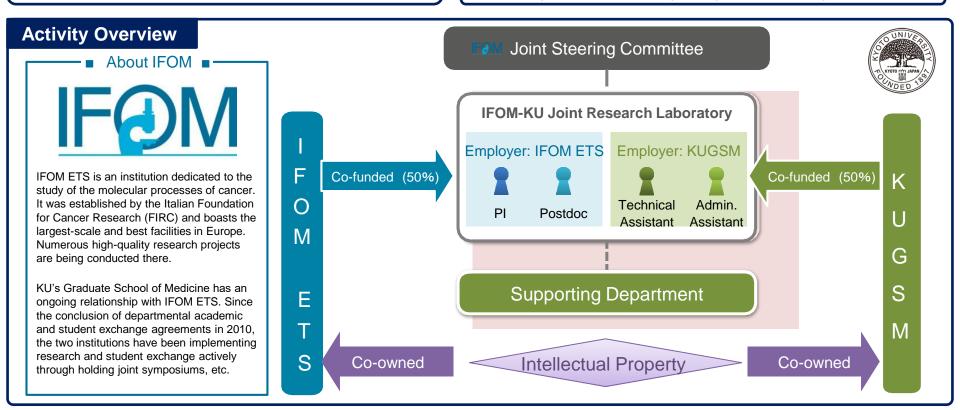
- ◆ Approved in FY 2018
- ◆ Established in April 2020
- Established by the Graduate School of Medicine
- Partner institution: The AIRC Institute of Molecular Oncology (IFOM ETS), Italy
- Location: Kyoto University, Kyoto, Japan (inbound)
- Purposes: Promotion of international research collaboration through the establishment of an international joint laboratory on the campus of the KU Graduate School of Medicine, co-funded by IFOM ETS and Kyoto University.
- ◆ Functions: Advanced cancer biology research and training of graduate students and early-career researchers.

Positive ripple effects on the university's activities

- Boost research activity by bringing together the knowledge and expertise of both institutions.
- Foster global human resources by internationalizing the research environment
- Create innovation through interdisciplinary academic collaboration

[FY 2025]

- Promotion of research collaboration and publication of internationally co-authored academic papers.
- Development of international joint research through the hosting of multiple international students including a MEXT scholarship student and JSPS Research Fellowship for Young Scientists recipient, and foreign researchers.
- Hosting multiple international students through the AMGEN Scholars Program and Kyoto University's General Exchange Special Research Student system etc., to contribute to the university's internationalization efforts.
- Deepening of international exchange through short-term hosting at IFOM ETS.



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Main Activities in FY 2024

Research outcomes

Articles

Diana Romero-Zamora#, Samuel Rogers#, Ronnie Ren Jie Low, Andrew B. Robinson, Scott G. Page, Blake JE Lane, Noa Lamm, Fuyuki Ishikawa, Makoto T. Hayashi* and Anthony J. Cesare*, A CPC-shelterin-BTR axis regulates mitotic telomere deprotection, Nature Communications, 2025, March 17, "Equal contribution, "Co-corresponding authors

Conference presentations

Yuki Sato and oMakoto T. Hayashi, Micronucleus Derived from Chromosome Fusion Is Not a Potent Inducer of cGAS-STING Pathway, EMBO Workshop Telomere function and evolution in health and disease, Roma, Italy, May 6-11, 2024;

Yuki Sato and Makoto T. Hayashi, Micronucleus Derived from Chromosome Fusion Is Not a Potent Inducer of cGAS-STING Pathway (invited lecture), 96th Annual Meeting of the Genetics Society of Japan, Kochi, September 4-6, 2024

Diana Romero-Zamora, Placide Niyonshuti, Samuel Rogers, Anthony J Cesare, Makoto T. Hayashi, RECQ Regulatory Mechanisms of M-phase Telomere Deprotection by Factors, the 42nd Chromosome Workshop, the 23rd Nuclear Dynamics Workshop, Oita, January 29–31, 2025

Acquisition of external funding

Grant-in-Aid for Challenging Research (Exploratory), Takeda Research Grant (Cancer Category), Enzyme Research Grant FY 2024

Time-lapse

Analysis of the fate of X chromosome fusion by the chromatid fusion visualization system (FuVis)

2 Education, internationalization, and outreach

Education and internationalization

The laboratory hosted:

IFOM ETS post-docs: 1 (Nigerian)

Research assistants: 3 (1 Mexican, 2 Japanese)

Researchers/master's/doctoral students: 5 (2 Rwandan, 1 Mexican, 1 Chilean, 1 Japanese)

Short-term international students (AMGEN Scholars Program): 1 (Kazakhstan) Meetings with IFOM ETS

PI chalk-talk meetings (online or onsite, once per month), PI meetings (online, once per month), PI retreat (Italy, October 7-9, 2024)

 Education and outreach IFOM-KU Joint Graduate Student Symposium (Milan, Italy, February 19, 2025)



The IFOM-KU Joint Research Laboratory