

Unit Name

Cell Proliferation and Gene Editing Unit
Assistant Professor Franz X Meitinger

Research Personnel

Feng Ying Esther Ng, Postdoctoral Scholar
Md Hazrat Belal, Postdoctoral Scholar
Carmen Sparr, Research Unit Technician
Orie Arakawa, Research Unit Technician
Junho Lee, PhD Student
Muhammad Hamzah, PhD Student
Anna Pavlovska, PhD Student
Haruka Nakamura, Research Intern

Scholarly Contributions and Creative Productions (by Faculty)

Journal Article

1. Belal, H.; Ng, E. F. Y.; Ohta, M.; Meitinger, F.
Cancer-Associated USP28 Missense Mutations Disrupt 53BP1 Interaction and p53 Stabilization. *Nature communications* 2025, 16, 10310.
2. Bellaart, A.; Brambila, A.; Xu, J.; Mendez Diaz, F.; Deep, A.; Anzola, J.; Meitinger, F.; Ohta, M.; Corbett, K. D.; Desai, A.; Oegema, K.
TRIM37 Prevents Ectopic Spindle Pole Assembly by Peptide Motif Recognition and Substrate-Dependent Oligomerization. *Nature structural & molecular biology* 2025, 32, 1800–1811.
3. Hamzah, M.; Meitinger, F.; Ohta, M.
PLK4: Master Regulator of Centriole Duplication and Its Therapeutic Potential. *Cytoskeleton (Hoboken, N.J.)* 2025, 82, 747–763.
4. Sparr, C.; Meitinger, F.
Prolonged Mitosis: A Key Indicator for Detecting Stressed and Damaged Cells. *Current opinion in cell biology* 2025, 92, 102449.
5. Ng, E. F. Y.; Meitinger, F.
Genetic Engineering and Screening Using Base Editing and Inducible Gene Knockout. *Methods in molecular biology (Clifton, N.J.)* 2025, 2872, 167–187.

Scholarly Contributions (by Unit Members)

Name of Unit Member	Type	Title	Outlet
Junho Lee	Poster Presentation at Conference	SIP & Connect Exploring Suntory's Research Innovation	OIST Innovation

Name of Unit Member	Type	Title	Outlet
Hazrat Belal	Poster Presentation at Conference	Cancer-Associated USP28 Missense Mutations Disrupt 53BP1 Interaction and p53 Stabilization	Emerging Concepts in Cell Division Cycles 2026 From Early Development to Cancer and Aging
Junho Lee	Poster Presentation at Conference	Identification of PIDDosome Regulators in Centrosome Amplification Response	Emerging Concepts in Cell Division Cycles 2026 From Early Development to Cancer and Aging
Anna Pavlovska	Poster Presentation at Conference	Identification of PIDDosome Regulators in Centrosome Amplification Response	Emerging Concepts in Cell Division Cycles 2026 From Early Development to Cancer and Aging
Md. Hazrat Belal	Poster Presentation at Conference	Cancer-Associated USP28 Mutants Disrupt Mitotic Stress Signaling by Impairing 53BP1 Binding and p53 Activation	The 48th Annual Meeting of the Molecular Biology Society of Japan
Muhammad Hamzah	Poster Presentation at Conference	A genome-wide screen reveals novel regulators of centriole-independent spindle assembly	The 48th Annual Meeting of the Molecular Biology Society of Japan (MBSJ) 2025
Muhammad Hamzah	Poster Presentation at Conference	A genome-wide screen reveals novel regulators of centriole-independent spindle assembly	Emerging Concepts in Cell Division Cycles 2026 From Early Development to Cancer and Aging
Esther Feng Ying Ng	Poster Presentation at Conference	Stable PLK1-Dependent Phosphorylation Marks on 53BP1 Encode Mitotic Stress Memory	Emerging Concepts in Cell Division Cycles 2026 From Early Development to Cancer and Aging
Muhammad Hamzah	Presentation at Conference	A genome-wide screen reveals novel regulators of centriole-independent spindle assembly	The 48th Annual Meeting of the Molecular Biology Society of Japan (MBSJ) 2025
Md. Hazrat Belal	Presentation at Conference	Cancer-Associated USP28 Mutants Disrupt Mitotic Stress Signaling by Impairing 53BP1 Binding and p53 Activation	The 48th Annual Meeting of the Molecular Biology Society of Japan
Midori Ohta	Presentation at Conference	Mechanisms of centrosome assembly and activation ensuring mitotic fidelity	OIST-Keio Showcase talk Series 7
Hazrat Belal	Presentation at Conference	Cancer-Associated USP28 Missense Mutations Disrupt 53BP1 Interaction and p53 Stabilization	Emerging Concepts in Cell Division Cycles 2026 From Early Development to Cancer and Aging

Honors, Awards & Fellowships [By Unit Members Only]

Term 1 2025 - Term 1 2025 Muhammad Hamzah, EMBO Molecular Medicine Poster Award, -, 2025, European Molecular Biology Organization (EMBO) 5th December 2025, - [Fiscal Year: 2025-12-05]

Term 2 2026 - Term 2 2026 Esther Feng Ying Ng, Poster Award, -, 2026, OIST Workshop: Emerging Concepts in Cell Division Cycles, Selected by invited speakers, - [Fiscal Year: 2026-03-04]

Other Institutional Service

Term 3 2025 - Term 3 2025 Summer Camp for Keio University Students , (University) [Fiscal Year: 2025-08-01]

Workshops and Seminars [Organized and Hosted by Faculty/Units]

Title	Location	Co-Organizers	Date
Emerging Concepts in Cell Division Cycles 2026	OIST	Tomomi Kiyomitsu, Keiko Kono, Midori Ohta	2026-03-02