

Kaho Itoh

PhD Student

Nationality: Japanese

Education

Aarhus University (Aarhus, Denmark) - PhD Student	Apr. 1, 2024 - Current
Aarhus University (Aarhus, Denmark) - Research Assistant	Apr. 1, 2023 - Mar. 31,
Osaka University (Osaka, Japan) - Master of Science in biology	Apr. 1, 2021 - Mar. 24, 2023
Osaka University (Osaka, Japan) - Bachelor of Science in biology	Apr. 1, 2017 - Mar. 24, 2021

Research Experience

Kitazawa lab, Aarhus University (Aarhus, Denmark)	Apr. 2023 - Current
PI: Taro Kitazawa	
Aim to understand the molecular basis of neuroplasticity	
<ul style="list-style-type: none">- Perform FACS sorting, bulk and single RNA-seq, ChIP-seq and ATAC-seq- Perform bioinformatics analysis of obtained data	
Laboratory for Cell Systems, Osaka University (Osaka, Japan)	Apr. 2020 - Mar. 2023
PI: Mariko Okada	
Aim to clarify immediate early gene regulatory systems in neuron	
Bachelor's thesis Research	
<ul style="list-style-type: none">- Analyze public RNA-seq, and ChIP-seq data by developing schemes using Linux and R	
Master's thesis Research	
<ul style="list-style-type: none">- Perform time-course bulk RNA-seq, ChIP-seq and ATAC-seq using cell line and analyze the data- Analyze cutting edge single cell multi-omics data- Perform qRT-PCR for confirmation of the RNA-seq data	

Scholarship

- Murata Overseas Scholarship Foundation Overseas study scholarship	Apr. 2023 - Mar. 2025
29.000 € per year over two years, acceptance rate: 3 out of 129 applicants	

Internship

Neuroscience School of Advanced Studies,	Sep. 9 - 16, 2023
Functional genomics and Neurogenetics course (Venice, Italy)	
Attendance at the course was limited to a carefully selected group of researchers, who were chosen based on a thorough peer-review process of their applications.	
Laboratory for Synaptic Plasticity and Connectivity, RIKEN (Wako, Japan)	Nov. 2021 - Jan. 2022
PI: Yukiko Goda	
I performed and analyzed time-course single cell multiome ATAC + gene expression using mouse hippocampal primary culture cells.	
I performed immunohistochemistry staining to support the interpretation of the sequence data set	

Honors and Awards

- Best poster presentation award in the 20th IPR Retreat (Osaka, Japan) Dec. 8-9, 2022
- Student presentation award in the annual meeting of the 59th Biophysical Society of Japan (Online) Dec. 1-3, 2021
- Excellent presentation award in the Osaka University Faculty of Science Department of Biological Sciences Graduation Research Presentation (Osaka, Japan) Feb. 19, 2021

Presentations

- The 47th Annual Meeting of the Japan Neuroscience Society (Fukuoka, Japan) Jul. 24-27, 2024
Poster presentation "Epigenetic and transcriptional insights into memory engram cells: uncovering learning-associated genes in different brain regions"
- DANDRITE SAB & retreat 2024 (Aarhus, Denmark) May 23-24, 2024
Oral and Poster presentation "From immediate early genes to memory engram: The molecular basis of how environmental stimuli shape diverse functionality of neuronal ensembles"
- The 20th IPR Retreat (Osaka, Japan) Dec. 8-9, 2022
Poster presentation "Single-cell Multi Omics Analysis of Immediate Early Genes Regulation in Neurons"
- The Annual Meeting of the Molecular Biology Society of Japan (Chiba, Japan) Nov. 30 - Dec. 2, 2022
Poster presentation "Single-cell Multi Omics Analysis of Immediate Early Genes Regulation in Neurons"
- The 45th Annual Meeting of the Japan Neuroscience Society (Okinawa, Japan) June. 30 - July. 3, 2022
Poster presentation "The quantitative analysis of immediate early gene regulation in neuron"
- The Annual Meeting of the Molecular Biology Society of Japan (Kanagawa, Japan) Dec. 1-3, 2021
Poster presentation "Multi-omics analysis of immediate early gene regulation in neuron"
- The annual meeting of the 59th Biophysical Society of Japan (Online) Nov. 25-27, 2021
Oral presentation "Quantitative analysis of immediate early gene regulation in neuron"
- The 44th Annual Meeting of the Japan Neuroscience Society, The 1st CJK International Meeting (Hyogo, Japan) Jul. 24-27, 2024
Poster presentation "Multi-omics analysis of immediate early genes regulation in neuron"