Johannes Nicolaus **Wibisana**

MSc Student · Systems Biologist

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Summary

I am currently a 2nd year MSc student in the Graduate School of Science, Osaka University researching about the NF-κB signal transduction system in B cell through fluorescence imaging, single-cell trancriptomics and functional omics analysis (scATAC-seq, scRNA-seq). I am familiar with R, ImageJ macro and bash programming language for image processing and analysis of multi-omics data. Furthermore, I also have experience with basic molecular biology experiments such as mammalian and avian cell culture, RNA-FISH, molecular cloning and qPCR. I am keen on learning new skills and techniques that I can apply to my current and future research. Finally, I am an adaptable and flexible person that can quickly grasp new concepts to efficiently complete given targets.

Education

Osaka University (Graduate School of Science)
Osaka, Japan

M.Sc in Biological Sciences
Apr. 2020 - Current (Expected graduation: Mar. 2022)

- Awardee of the HISF (Honjo International Scholarship Foundation) scholarship.
- Research: NF-κB transcriptional regulation in B-cell, Laboratory of Cell Systems (PI: Mariko Okada)
- Others: In charge of laboratory website, and bioinformatics training of several visiting researchers (mainly RNA-seq)

Osaka University (Chemistry-Biology Combined Major Program)
Osaka, Japan

B.Sc in Biological Sciences
Oct. 2010 - Mar. 2020 (3.5 years)

- Awardee of the MEXT (Ministry of Education, Culture, Sports, Science and Technology) scholarship.
- Research: NF-κB transcriptional regulation in B-cell, Laboratory of Cell Systems (PI: Mariko Okada)
- Selected for AEARU 2018 Summer Camp in Hefei, China

Publications

Journal articles

Prediction of transcriptional regulation in immune cells through single-cell analysis
Journal of Clinical and Experimental Medicine 276 (10), 983-988

JN Wibisana, K Iida, M Okada
2021

Conference proceedings

Development of micro structure for force measurement with intracellular FRET
ROBOMECH Journal, 2A1-M05

K Uesugi, Y Mori, JN Wibisana, T Kitaguchi, S Tabata, K Morishima
2019

Presentations

International

Japan-Korea Bilateral Symposium between IPR and SNU on Advanced Analysis of Protein Function and Structure (Oral presentation)
College of Pharmacy, Seoul National University, S. Korea

NF-κB mediated transcriptional regulation in B cell
Jan. 2020

International Conference of Systems Biology (Poster presentation)
Okinawa, Japan

Multi-dimensional analysis of NF-κB nuclear dynamics
Nov. 2019

Domestic

The 58th Annual Meeting of the Biophysical Society of Japan (Poster presentation)
Japan (held online)

NF-κB mediated transcriptional regulation in B cell
Sep. 2020

18th IPR Retreat (Oral presentation)
Osaka, Japan

Multi-dimensional analysis of NF-κB nuclear dynamics
Nov. 2019

Honors & Awards

2020/09	**Poster presentation award**, The 58th Annual Meeting of the Biophysical Society of Japan	*Japan*
2018/11	**Bronze award**, BIOMOD 2018 Molecular Design Competition	*San Francisco, U.S.A*
2017/11	**Bronze award**, BIOMOD 2017 Molecular Design Competition	*San Francisco, U.S.A*

Research activities

Laboratory for Cell Systems (PI: Mariko Okada), Osaka University
UNDERGRADUATE - MASTER'S STUDENT

Osaka, Japan

Sep. 2018 - Feb. 2019

- Project title: NF-κB mediated transcriptional regulation in B cell
- Performed quantitative imaging analysis of NF-κB nuclear translocation using confocal microscope and ImageJ
- Performed single-cell RNA-seq and single-cell ATAC-seq analysis to find the relationship between cis-regulatory elements and gene expression pattern
- Performed single-molecule RNA-FISH and qPCR for the confirmation of RNA-seq results
- Performed cloning for both transient and permanent expression of fluorescent-tagged protein of interest
- In charge of side projects concerning RNA-seq analysis and training of visiting researchers on RNA-seq analysis

Laboratory of Cellular Life Science (PI: Naotada Ishihara), Osaka University
RESEARCH INTERN

Osaka, Japan

Sep. 2018 - Feb. 2019

- Project title: Quantification of Mitochondrial Morphology
- Performed quantitative analysis of mitochondrial morphology using ImageJ
- Performed basic experiments such as mammalian cell culture and confocal imaging

Bio Medical Wet Robotics Laboratory (PI: Morishima Keisuke), Osaka University
ASSOCIATE PROJECT LEADER FOR BIOMOD 2017-2018

Osaka, Japan

2017 - 2018

- Performed basic DNA origami experiments
- Performed 3D modeling and computer simulated DNA origami design

Laboratory of Science and Innovation for Pain, Osaka University
RESEARCH ASSISTANT

Osaka, Japan

Apr. 2018 - Feb. 2019

- Performed basic experiments such as mouse genotyping, RNA extraction, and ELISA
- In charge of laboratory cleanliness

Department of Biotechnology, Pelita Harapan University
RESEARCH ASSISTANT

Tangerang, Indonesia

May 2016 - Sep. 2016

- Project title: Antibiotic susceptibility evaluation of *Bacillus amyloliquefaciens* isolated from local pig gastrointestinal tract as potentially probiotic candidate
- Performed basic microbiology techniques for antibiotic resistance assay

Organizational activities

Indonesian Student Association in Japan
SECRETARY GENERAL

Japan

Sep. 2020 - Current

- In charge of daily affairs in the organization

Indonesian Student Association in Japan
SECRETARY GENERAL

Japan

Sep. 2019 - Sep. 2020

- In charge of daily affairs in the organization
- In charge of annual symposium by the Indonesian Student Association in Japan (ASSIGN 2020)

Indonesian Student Association in Japan - Osaka-Nara
PRESIDENT

Osaka, Japan

Sep. 2019 - Sep. 2020

- In charge of all events held by the organization
- In charge of annual symposium by the Indonesian Student Association in Japan (ASSIGN 2019)
- Correspondence with the Consulate General of the Republic of Indonesia in Osaka and Osaka University representatives

Other skills

Website design and development   HTML, CSS, Jekyll. Built and designed laboratory website using HTML and CSS (Bootstrap) and personal website (partially) using Jekyll

3D printing and modeling   Can perform basic 3D modeling using Fusion360 or Maya. Familiar with basic 3D printing techniques.