Johannes Nicolaus **Wibisana**

MSc Student · Systems Biologist

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"Efficiency is key."

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.

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*

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*

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

Research activities

Laboratory for Cell Systems (PI: Mariko Okada), Osaka University *Osaka, Japan*

Undergraduate - Master's student *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 *Osaka, Japan*

Research intern *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 *Osaka, Japan*

Associate project leader for BIOMOD 2017-2018 *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 *Osaka, Japan*

Research assistant *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 *Tangerang, Indonesia*

Research assistant *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 *Japan*

Secretary General *Sep. 2020 - Current*

- In charge of daily affairs in the organization

Indonesian Student Association in Japan *Japan*

Secretary General *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 *Osaka, Japan*

President *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.