

ELIZA FARESTIANI

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PROFESSIONAL SUMMARY

A Biotechnology graduate with Master of Engineering (M.Eng) with expertise in microbiology and metabolomics. Have skilled basic microbiology techniques such as sterilization, cell culture techniques, microbial assays, enzyme production and characterization, and molecular identification and imaging mass spectrometry-based metabolomics work as a student and a research assistant. In addition to wet lab activities, I have subsequently developed data documentation, data organization and management, data analysis using various platforms, and scientific writing skills. Building this foundation, I am looking for the opportunities to leverage this expertise to contribute to scientific advancements in both fundamental research and applied biotechnology.

EDUCATION

Osaka University

Master of Engineering (M.Eng.) in Biotechnology
[Research field: Metabolomics]

GPA: 3.81/4.00

Universitas Bengkulu

Bachelor of Science (S.Si.) in Biology
[Research field: Microbiology]

GPA: 3.37/4.00

SKILLS AND COMPETENCES

Laboratory: Sample preparation and extraction, Metabolomics, Microbiology, Aseptic and sterile techniques, Biochemical assays, and PCR | **Personal Strengths:** Organizational skills, Time Management, Data analysis, and Data organization, Detail oriented, Self-motivated | **Technical Proficiency:** BLASTN, GenBank, MEGA, IMAGEREVEAL, Graphism, MS Office Suite, Google Office Suite, English (B2).

RESEARCH EXPERIENCE

Research Assistant for Exchange Student, Bioresource Engineering Laboratory

2023-2024

Dept. of Biotechnology, Grad. School of Engineering, Osaka University

- Assisting the student in conducting the research project on the analysis of phospholipids distribution in polished rice grains (2024)
- Assisting the student in completing the research project on the visualization of GABA and glutamic acid in red tomato (2023)

PIC Member of Training Course, Bioresource Engineering Laboratory

2023

Dept. of Biotechnology, Grad. School of Engineering, Osaka University

- Delivering orientation and giving a lecture about mass spectrometry imaging
- Guiding practical experiment on the investigation of spatial distribution of choline in mouse brain

Project-based Training Course, Applied Microbiology Laboratory

2022

Dept. of Biotechnology, Grad. School of Engineering, Osaka University

- Conducting preliminary experiment on lipids production and its evaluation using microscopy and GC analysis for biodiesel production
- Confirmed

Research Assistant, Microbiology and Biotechnology Laboratory

2018-2019

Dept. of Biology, Faculty of Natural Science, University of Bengkulu

- Relevant research experience: Investigation of non-halal contaminants in meat-based products in Bengkulu using *Cyt b* gene
- Preparing lecture, materials, and equipment required during practical experiment
- Isolation, screening, and testing cellulolytic and pectinolytic bacteria and fungi from calamansi lime
- Isolation, screening, and testing proteolytic bacteria and fungi from *tempe*
- Cultivation and molecular identification of heavy metals-degrading bacteria isolated from contaminated river

PUBLICATIONS

Farestiani, E., Tamada, Y., Okuda, K., Fukusaki, E., Shimma, S. (2024). Imaging lipidomics and metallomics of brown rice cultivars used for sake production. *Mass Spectrometry by J-Stage* **13** (1).

Sipriyadi, Darwis, W., Farestiani, E., Wibowo, R. H. (2020). Characterization of xylanolytic bacteria *Stenotrophomonas* sp. EL-8 isolated from seagrass substrates in Enggano island. *IOP Conf. Series: Earth and Environmental Science* **457**.

Wibowo, R. H., Darwis, W., Sipriyadi, Farestiani, E. (2020). Identification of 16S rRNA isolates from EM26 producing xylanase enzyme from Enggano island. Prosiding Seminar Nasional Virtual: PFI, PEI Komda Bengkulu dan Jurusan Perlindungan Tanaman Fakultas Pertanian Universitas Bengkulu 2020.

Sipriyadi, Darwis, W., Farestiani, E., Wibowo, R. H. (2019). Screening and identification of xylanase bacteria from seagrass of Banjar Sari seashore Enggano island. Prosiding SEMIRATA BKS PTN Wilayah Barat Bidang MIPA 2019.

CONFERENCE/WORKSHOP ATTENDED

- The 20th Annual Conference of the Metabolomics Society, Osaka, Japan 2024
- The 75th Annual Meeting of the Society for Biotechnology, Nagoya, Japan 2023
- The 3rd International Conference on Bioscience, Bogor, Indonesia 2019
- Mathematics and Science Education International Seminar (MASEIS) 2019
- SEMIRATA & ICST, Bengkulu, Indonesia 2019

ORGANIZATION EXPERIENCE

General Secretary Nov. 2023 – Oct. 2024

Persatuan Pelajar Indonesia (PPI) Osaka Nara, Japan

- Establishing and overseeing the administration flow of SOP's operation
- Managing 45 outgoing documents (formal letters, MoUs, and certificates) and 33 incoming during a one-year tenure
- Arranging and synchronizing the timeline of ~30 organizational agendas throughout a one-year tenure,
- Managing organization mailing system to comply with formal correspondence and efficient communication
- Establishing digital database and visualizing the distribution of Indonesian student distribution in Osaka and Nara areas, achieving 141 participants against a target of 100 through regular census

Member of Secretarial Bureau Oct. 2023 - Oct. 2024

Persatuan Pelajar Indonesia (PPI) Jepang, Japan

- Managing and archiving ~100 incoming and outgoing letters
- Recording meeting boards attended by the head, vice chairman, general secretary, or any delegated members
- Responsible for secretarial bureau's accountability reports

Secretary I Oct. 2022 – Oct. 2023

Persatuan Pelajar Indonesia (PPI) Osaka Nara, Japan

- Performing correspondence duties of PPION
- Responsible for outgoing letters related to PPION activities and distributing the incoming letters
- Recording the organizational inventory

- Managing the student database
- Establishing a management report format

ACHIEVEMENTS

LPDP Scholarship Awardee for Master's degree program 2022-2024
Ministry of Finance Indonesia

Student English Presentation Contest: First Winner Dec. 2023
The Consortium of Universities in Osaka

High Achiever Scholarship Awardee 2020
Titik Nol English Course