



AYU LESTARI

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Bogor, Jawa Barat

Master's student in Biochemistry at IPB University with experience in laboratory analysis and in vitro and in silico research, particularly enzyme inhibition studies. Published in Q2 and SINTA 4-indexed journals, with strong interests in food science and applied biochemistry.

Education Level

Institut Pertanian Bogor - Indonesia

Aug 2024 - Aug 2026

Master of Biochemistry, 3.96/4.00

- Volunteered in a community outreach program focused on rural engagement, contributing to initiatives aimed at supporting child growth and development through community empowerment.

Institut Pertanian Bogor - Indonesia

Aug 2021 - May 2025

Bachelor of Biochemistry, 3.59/4.00

Work Experiences

UPT PMP2KP Banyuwangi - Banyuwangi, Indonesia

May 2023 - Jul 2023

Internship

A technical unit focused on quality testing and product development in the marine and fisheries sector, supporting product safety and quality through laboratory analysis.

- Conducted laboratory analyses on fish samples, including proximate testing for nutritional composition
- Performed antibiotic residue analysis to ensure compliance with food safety standards
- Conducted heavy metal testing to evaluate contamination levels in samples

Chemistry and Biochemistry Laboratory - Bogor, Indonesia

Aug 2022 - Dec 2025

Practicum Assistant

- Guided and supervised 200+ students during laboratory sessions by explaining experimental procedures and laboratory techniques
- Assisted students in data analysis and laboratory report preparation
- Ensured the proper use of laboratory equipment and compliance with laboratory safety procedures

Organisational Experience

CREBs - Indonesia

Jan 2024 - Dec 2024

Treasurer

A student organization that facilitates academic development, student activities, and professional growth among Biochemistry students.

- Managed organizational budgets.
- Negotiated costs to optimize available resources.
- Maintained accurate financial documentation.
- Monitored financial transactions and organizational spending.

PMB 60 - Indonesia

Mar 2023 - Dec 2023

Co-Fasilitator

An orientation program designed to introduce new students to IPB University's academic environment, campus culture, and student life, while facilitating their transition into university.

- Supported orientation activities for more than 50 new IPB students
- Organized activities and assisted with event implementation
- Delivered clear guidance to participants
- Worked collaboratively as part of the facilitation team.

BEM KM IPB - Indonesia

May 2023 - Dec 2023

Treasurer

A student organization focused on student development, organizational activities, and community engagement, providing opportunities for leadership, teamwork, and professional growth.

- Managed organizational budgets.
- Negotiated costs to improve financial efficiency.
- Maintained accurate financial transaction records.

BEM KM IPB - Indonesia

Jan 2022 - Nov 2022

Staf

A student organization focused on student development, organizational activities, and community engagement, providing opportunities for leadership, teamwork, and professional growth.

- Successfully executed five work programs within one year of management.

Skills, Achievements, Certifications & Other Experience

- **Projects** (2026): Successfully published a scientific article in a Q2 indexed journal (2026) titled "Acetylcholinesterase Inhibitory Activity of Ethanol Extract of Cinnamon Bark (*Cinnamomum burmannii*): In Silico and In Vitro Studies."
- **Projects** (2026): Successfully published a scientific article in a SINTA 4 accredited journal (2026) titled "Tempe-Based Food Innovation as a Community Empowerment Effort to Support Child Development Towards Indonesia Gold 2045."
- **Projects** (2024): PKM "Efektivitas Nano-filter Masker Biodegradable dan Antiviral Berbagai Konsentrasi Ekstrak Selulosa Mahkota Nanas (*Ananas comosus*) dan PLA dengan Penambahan ZnO".
- **Projects** (2023): PKM "Formulasi Serum Anti-Jerawat Ekstrak Daun Songgolangit (*Tridax procumbens*) melalui Mekanisme penghambatan Bakteri *Propionibacterium acne*".
- **Soft Skills**: Critical thinking; Attention to detail; Problem solving; Time management
- **Hard Skills**: Laboratory analysis; Proximate testing; Antibiotic residue analysis; Heavy metal testing; Data analysis; Scientific reporting
- **Certifications** 📄 (2026): Quality Assurance & Quality Control for Pharmaceutical Industry: Gained knowledge of GMP principles, quality control testing, quality assurance systems, pharmaceutical quality standards, documentation, and laboratory quality management in the pharmaceutical industry.