

AULIA BERLIAN PATRICIA

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PROFESSIONAL SUMMARY

Biology graduate from Universitas Gadjah Mada with a concentration in Biochemistry and Biomedicine, seeking opportunities in QA/QC, Laboratory Analysis, and R&D. Hands-on experience in microbiological water-quality testing in accordance with ISO 9308:2014, laboratory preparation, analytical instrumentation, biomaterial formulation, and molecular biology procedures through laboratory, research, and internship experience. Experienced in laboratory documentation, sample handling, data analysis, GLP, and biosafety practices, with exposure to research workflows spanning experimental design, biological sample processing, and scientific data interpretation. Demonstrated ability to coordinate laboratory activities, supervise practical teams, and maintain zero-incident laboratory operations. Co-author of a Q2-indexed international scientific publication.

CORE COMPETENCIES

- Laboratory Quality Control
- Microbial Testing
- In Vivo Research
- Histological Processing & Analysis
- Bioinformatics
- GLP & OP Compliances

PROFESSIONAL EXPERIENCE

RISET KOLABORASI INDONESIA (RKI) GRANT 2026 – Universitas Gadjah Mada

Dec 2025 – Aug 2026

Research Assistant – Biomedical & Biomaterial Formulation - Yogyakarta, Indonesia

- Developed and evaluated nanofiber formulations using FTIR, SEM, and antibacterial testing to identify the most promising formulation.
- Conducted in vivo studies, including animal handling, treatment administration, and sample collection, to support the study's experimental requirements.
- Prepared histological specimens, conducted histological assessments, and performed RNA extraction using established laboratory procedures for downstream analysis.
- Analyzed experimental data and performed statistical analyses to generate quantitative findings and clear research visualizations.
- Maintained research financial records, including transaction tracking, receipt filing, and financial reporting, to ensure accurate accurate and traceable project records.

BIOCHEMISTRY LABORATORY – Faculty of Biology, Universitas Gadjah Mada

Aug 2024 – Aug 2026

Coordinator & Teaching Assistant – Biochemistry and Biochemical Techniques - Yogyakarta, Indonesia

- Coordinated the preparation of laboratory equipment and reagent to ensure practical work were conducted in line with established procedures.
- Guided more than 50 students per session in the proper use of micropipettes, UV-Vis spectrophotometers, pH meters, and electrophoresis equipment.
- Led a team of nine laboratory assistants in delivering practical sessions and reinforcing GLP-based SOP compliance, contributing to zero recorded laboratory incidents.

BIMA GRANT 2025 – UGM

Aug 2025 – Dec 2025

Research Assistant - Yogyakarta, Indonesia

- Developed pellet-based functional food formulations with isocaloric and isofiber specifications in accordance with AIN-93M standards.
- Collected routine study data, including body weight, blood glucose levels, and food intake, to support ongoing monitoring of experimental animals.
- Maintained research logbooks and contributed to progress and final reports, keeping research activities and documentation organized and up to date.

INSTITUT BIOINFORMATIKA (INBIO) INDONESIA

Jan 2025 – Nov 2025

MBKM Intern – Reserach Assistant – Remote, Malang, Indonesia

- Analyzed >100 bioactive compound and clinical gene-expression datasets related to diabetes using GEO2R, GO/KEGG, SwissADME, STITCH, STRING, and PyRx.
- Interpreted molecular docking results and contributed to the publication of a Q2-ranked international journal article.

REGIONAL HEALTH LABORATORY OF BANTUL REGENCY

July 2024 – Aug 2024

Envirotnmental Microbiology Laboratory Assistant – Yogyakarta, Indonesia

- Performed microbiological quality testing on 20+ water samples per day in accordance with ISO 9308:2014 standard methods.
- Prepared equipment for sterilization and culture media and operated a membrane filter manifold, colony counter, and UV-Vis spectrophotometer.

PROJECT

STUDENT CREATIVITY PROGRAM 2025 - MoHEST of Indonesia

Jan 2025 – Dec 2025

Research Member - Yogyakarta, Indonesia

- Developed a recombinant *K. marxianus* approach for PHB (*polyhydroxybutyrate*) gene overexpression, using banana peel waste as a fermentation substrate for sustainable polymer production.
- Prepared and processed banana peel waste for use as a fermentation-medium component to support biopolymer production.
- Processed and analyzed experimental data to assess treatment effects and support interpretation of research outcomes.

EDUCATION

UNIVERSITAS GADJAH MADA

Aug 2022 – July 2026

Bachelor of Science (S.Si.) in Biological Sciences • GPA : 3.82/4.00 - Yogyakarta, Indonesia

- **Interested Field:** Biochemistry, Biomedical, Molecular Biology, Bioinformatics.
- **Publication:** *Co-Author* of a biomedical and bioinformatics research article published in Q2 ranked journal (2025)

ORGANIZATIONAL EXPERIENCE

STUDENT EXECUTIVE BOARD (SEM) FACULTY OF BIOLOGY UGM

Dec 2022 – Dec 2024

Human Resources Development Staff - Yogyakarta, Indonesia

- Supported internal organizational development initiatives, including member recruitment, performance evaluation, and capacity-building programs.
- Assessed member participation and performance through member reports and supported the delivery of internal programs; received the Best Staff Award in May 2024.

BRILIANT 2023 – UGM

July 2023 – Nov 2023

Event Division Coordinator - Yogyakarta, Indonesia

- Coordinated the delivery of BRILIANT 2023, a student development and new-member recruitment program for Biology students at UGM.
- Oversaw >10 activities, coordinated 7 division members, and liaised with >30 team members to keep schedules and technical requirements on track.

TRAINING

FOOD SAFETY TRAINING – GMP, HACCP, ISO 22000:2018, FSSC 22000 VERSION 7.0

Sep 2026

Makin Ahli - Online

MICROSOFT EXCEL BASIC

Sep 2026

MySkill - Online

TECHNICAL SKILL

- **Research, Development, and Analysis:** Biomaterial and nanofiber formulation; Okra functional food formulation; antibacterial testing; RNA extraction; histology; in vivo experimentation; ImageJ; GraphPad Prism.
- **Quality & Compliance:** ISO 9308:2014 microbiological water testing; GLP; SOP compliance; biosafety; laboratory readiness checks; laboratory documentation; logbook management
- **Instruments:** UV-Vis spectrophotometer; pH meter; membrane filter manifold set; colony counter; electrophoresis equipment; electrospinning, biological safety cabinet.
- **Languages (spoken):** Indonesian (Native); English (Professional Proficiency)