

SHEVA RIMMA DHANTY

Microbiology Analyst | Quality Control | Pharmaceutical Compliance

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Biology graduate with professional research and pharmaceutical experience under GMP, GLP, and GDocP standards. Proven track record in managing critical quality documentation, including OOS investigations, batch record, CAPAs, and change controls. Proficient in aseptic techniques, microbial characterization, LAF systems, and laboratory testing instruments. Suited laboratory analyst or QC analyst that need careful sample handling, accurate identification, reliable testing and dependable documentation.

EDUCATION

Universitas Gadjah Mada (UGM) – Yogyakarta, Indonesia

Bachelor of Biology (B.Sc.)

- GPA 3.90/4.00
- Focused on Microbiology and Biochemistry, in line with the topics of academic projects and internships during the studies.
- Conducted the research to map the biodiversity of *Vitex pinnata* L. using morphometric analysis and biochemical characterization. Experienced in sample preparation and phytochemical analysis using UV-Vis Spectrophotometry, Thin Layer Chromatography (TLC), and Gas Chromatography-Mass Spectrometry (GC-MS).
- Relevant courses: Microbiology, Microbial Systematic, Advanced Biochemistry, Biochemical Engineering.

RESEARCH EXPERIENCE

Program Kreativitas Mahasiswa 2023 Kemdiktisaintek – Yogyakarta

Jan - Nov 2023

Research Team Leader

- Developed and evaluated the effectiveness of an innovative biofertilizer powder formulated from three types of Plant Growth-Promoting Bacteria (PGPB) combined with organic fungicides against anthracnose disease in cayenne pepper.
- Conducted in-depth microbiological analysis (case study: *Colletotrichum* spp. pathogen) and formulated innovative research-based solutions to mitigate the crop failure.
- Developed powder-based biofertilizer formulations from bacterial cultures, focusing on optimizing storage efficiency, product stability, and ease of practical application.
- Evaluated product efficacy through stress enzyme (SOD) analysis using spectrophotometry and biomass monitoring as performance indicators.
- Applied the microbial inhibition method to quantify the inhibitory capacity of fungicidal agents, ensuring strict methodological consistency with experimental designs and microbiology laboratory standards.

Badan Riset dan Inovasi Nasional (BRIN) Pusat Riset Mikrobiologi Terapan - Bogor

Jun - Jul 2023

Student Research Intern

- Experienced in microbial isolation, culture media preparation, and biochemical parameter evaluation to ensure the functional efficacy of isolated bacteria from the extreme environment.
- Mastered aseptic techniques in isolating and cultivating microbes from complex samples to ensure isolate purity, prevent cross-contamination, and maintain data integrity in accordance with laboratory quality standards.
- Performed Total Plate Count method, colony characterization, and Gram staining on 15+ bacterial isolates for specific identification.
- Analyzed bacterial biochemical profiles via compound quantification using spectrophotometry, while simultaneously evaluating microbial growth parameters and metabolite production.
- Consistently applied Good Laboratory Practice (GLP) standards, including controlled documentation of test results, reduced sample turnaround time and operational waste, and ensured laboratory operational safety.

PROFESSIONAL EXPERIENCE

PT Etana Biotechnologies Indonesia – East Jakarta

Dec 2025 - Jun 2026

Production Operation Intern

- Ensured compliance with GMP (CPOB) standards and basic regulatory requirements within a pharmaceutical manufacturing environment to maintain production process integrity.
- Applied Good Documentation Practice (GDocP) in recording operational data, assisted in the review of batch records (4 docs/week), and monitored Critical Process Parameters (CPP).
- Implemented ALCOA+ and 5S principles across all recording and documentation processes.
- Gained a thorough understanding of production workflows and product release procedures to guarantee final product quality consistency.
- Applied Structured Problem Solving (SPS) frameworks to investigate and drafted deviation reports using fishbone diagrams in environmental monitoring process and In-Process Control (IPC) according to AQL standards (5 docs/month).

- Drafted Corrective and Preventive Actions (CAPA) and change controls document regarding the deviation reports.
- Acquired final predicate: Very Good. [Certificate](#).

Laboratory of Biochemistry, Faculty of Biology, UGM - Yogyakarta

Aug - Nov 2025

Analytical Biochemistry Workshop Assistant

- Prepared a biochemistry workshop titled "Integrative Bioprospecting: Exploring Natural Product Compounds in the Multi-Omics Era" for a diverse audience.
- Demonstrated and assisted with core extraction techniques including maceration, Soxhlet extraction, and sonication as well as evaporation processes.
- Instructed hands-on sessions on fractionation techniques using Vacuum Liquid Chromatography (VLC) and Liquid-Liquid Chromatography (LLC).
- Mentored participants in qualitative compound testing using Thin-Layer Chromatography (TLC).
- Facilitated the bioactivity analysis and characterization of bioactive compounds using UV-Vis Spectrophotometry, antioxidant activity assays (microhydroxyl method), Total Phenolic Content determination via microplate readers, and molecular docking simulations.

ORGANIZATIONAL EXPERIENCE

Pemuda Gatra Aryaguna (Pagar Raya) – Indonesia (national)

Feb 2020 - present

Co-Founder (Eksekutif Bidang Riset dan Partnership)

- Established and expanded a youth community organization focused on social empowerment and community service, now engaging 3,000+ young people across Indonesia.
- Designed and developed community programs through research, implementation, and evaluation of offline activities, while enhancing curriculum effectiveness to align with the organization's vision and societal impact.
- Strengthened external partnerships and increased media exposure through collaborative initiatives and digital content creation (@pagar.raya).

Entomology Study Group (KSE), Faculty of Biology UGM - Yogyakarta

Jan - Dec 2024

President

- Led a faculty-based scientific student organization with 50+ active members, focusing on entomological studies.
- Oversaw and monitored the preparation and execution of divisional programs, ensuring alignment with the organization's vision, mission, and bylaws.
- Advanced organizational growth through strategic planning, member engagement, and external collaboration.

TRAINING

- **Laboratory System Management Based On ISO/IEC 17025:2017.** (Jul 2026). (Understanding the requirements of ISO/IEC 17025:2017, Good Laboratory Practice, laboratory quality control, estimation of uncertainty in measurement, and test method validation). [Certificate](#)
- **Internal Audit based On ISO 9001:2015.** (Jun 2026). [Certificate](#)
- **Food Safety Management System (ISO 22000, FSSC 22000 v. 7.0, HACCP).** (Jul 2026). [Certificates](#)

ACHIEVEMENTS

- **First Winner** of Sebelas Maret Animal Science Competition Scientific Paper Category. (2025). "PiggyTect: Inovasi Kit Deteksi Dini African Swine Fever pada Babi Berbasis LAMP-PCR guna Menyokong Perekonomian Lokal menuju Indonesia Emas."
- **Bronze Medal** Nutrition Science Competition Universitas Negeri Surabaya. (2024). "D-Tect : Inovasi Kit Deteksi Dini Noninvasif pada Diabetes Melitus Tipe 1 Berbasis LAMP-PCR untuk Manajemen Gizi Menuju Generasi Emas 2045."

SKILLS

- **Lab Technical Skills:** Proficient in operating Spectrophotometer UV-Vis, autoclave, incubator, LAF, BSC; aseptic techniques; microbial culturing and identification; media preparation; microbial limit testing; Gram staining; sterility testing; microbial growth inhibition test, MPN testing, growth promotion test (GPT); Total Plate Count (TPC); titration; TLC; biochemical assays (enzyme and compound level quantification, protein assays); familiar with principles and interpretation of GC-MS, ELISA, HPLC, AAS, and FTIR results.
- **Quality and Compliance:** GMP; GdocP; GLP; batch record review; CAPA and change control documentation; deviation reporting; HACCP documentation, QC tools; RCA Analysis; PDCA cycle; SPC (Statistical Process Control).
- **Tools :** Gemini, ChatGPT, Microsoft Office, SPSS, BMS monitoring, familiar with Labsolution.

REFERENCES

- **Rayhana Fakhira Miftahulfizahraa** (Operation Production Supervisor, PT Etana Biotechnologies Indonesia). rayhana.miftahulfiza@id.etanabiotech.com. +62 817-7695-4952. (Internship Mentor).
- **Dr. Rumella Simarmata, M.Biotech.** (Head of Research Group, Research Center for Applied Microbiology, Badan Riset dan Inovasi Nasional (BRIN)). rume001@brin.go.id. +62 896-3044-4527. (Internship Supervisor).