

Nailah Huwaida

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Summary

Detail-oriented Biotechnology graduate from Universitas Brawijaya with hands-on experience in laboratory research and development, physicochemical analysis of nanoliposomal formulations, and microbiological analysis. Experienced in operating laboratory instruments, conducting sample preparation, maintaining laboratory documentation, and applying Good Laboratory Practice (GLP). Familiar with PCR techniques, UV-Vis Spectrophotometry, Gas Chromatography Analysis, FTIR analysis, particle size analysis, zeta potential measurement, scientific literature review and documentation. I am motivated to contribute to pharmaceutical research and product development.

Work Experience

BRMP Biogen Ministry of Agriculture Indonesia January 2025 - June 2025

Plant Tissue Culture Laboratory Analyst Intern

- Received and prepared explants according to laboratory procedures
- Performed sterilization and aseptic preparation of 50+ field-collected explants, consistently achieving contamination-free-in-vitro culture environments
- Prepared and maintained culture media formulations for sterilization and subculture explants
- Executed 100+ explant subcultures under strict sterile conditions and monitoring contamination rates and growth progression
- Conducted routine monitoring and quality control of cultures to contamination control
- Maintained comprehensive laboratory records and documentation of sterilization procedures
- Followed laboratory SOPs, GLP principles, and safety regulations

Laboratory Asisstant Universitas Brawijaya September 2024 – December 2024

Biomaterial Laboratory Assistant

- Assisted in delivering biomaterial laboratory practical sessions, including bioplastic, biodiesel, and bioethanol production experiments
- Guided students in understanding laboratory procedures and underlying biochemical principles during practical activities
- Prepared raw material, reagents, and laboratory equipment
- Ensured laboratory activities followed established procedures, good laboratory practice (GLP), and safety protocols
- Assisted in monitoring experimental processes and outcomes during biomaterial synthesis

Organization Experience

Synbio Universitas Brawijaya January 2025 - December 2025

Director of Media and Publication Department

- Directed task distribution across design and publication activities by matching responsibilities to each member’s individual strengths and specialisations, improving team efficiency and output quality
- Grew Synbio UB’s Instagram audience by 400+ followers through strategic content planning and consistent visual branding
- Achieving 145.000+ content views in October 2025, reflecting a well-executed content strategy and strong audience engagement across digital platforms

Education

Universitas Brawijaya (2022 – 2026)

Bachelor of Biotechnology | GPA 3.70

Project

Formulation, Physicochemical Characterization, and Storage Stability of Eugenol-Loaded Nanoliposomes Prepared by pH-Driven Method

- Prepared and characterized nanoliposomes formulations for bioactive compound delivery

- Operated laboratory instruments including UV-Vis spectrophotometer, pH meter, centrifuge, vortex, magnetic stirrer, analytical balance, ultrasonicator, and micropipette.
- Interpreted particle size analyzer results such as particle size, polydispersity index, and zeta potential of nanoliposomes
- Interpreted FTIR analysis results to identify chemical compounds and evaluate the interactions inside the nanoliposomes-eugenol complex
- Recorded, analyzed, and interpreted experimental data to evaluate nanoliposomes-eugenol stability and quality
- Conducted extensive scientific literature reviews to support method development and experimental design
- Applied Good Laboratory Practice (GLP) and laboratory safety procedures throughout research activities

Achievement

Gold Medalist and Best Presentation - Bioinformatics and Synthetic Biology Competition (BIOS) 2025

Topic: Eksplorasi *In Silico* Farmakologi Jaringan Senyawa Bioaktif Kombucha Rimpang Warisan Etnofarmakologi Indonesia terhadap *Brain-Gut-Liver-Axis Cancer*

Training

Hands-On Training Analysis GC	2026
Quality Assurance in Pharmaceutical Industry Training	2026
Transcriptomics and Differential Gene Expression Analysis Program	2026

Skills

Hard Skills

- Microbiology Analysis
- Formulation and Physicochemical Characterization
- Plant Tissue Culture
- Bioinformatics
- Gas Chromatography (GC) Analysis
- Good Laboratory Practice (GLP)
- Aseptic Techniques and Sterilization Procedures
- Fourier Transform Infrared (FTIR) Analysis
- Particle Size Analyzer (PSA) Analysis

Soft Skills

- Teamwork and Collaboration
- Leadership
- Project Management
- Time Management
- Analytical Thinking
- Problem Solving
- Learning Agility and Adaptability
- Communication

Language

English – C1 Advanced