

AFRINA SYAHIRA MASTURINA

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PROFIL SUMMARY

Biotechnology graduate with hands-on laboratory experience in tissue culture, microbiological analysis, seed quality testing, and experimental research. Experienced in laboratory SOP implementation, statistical data analysis, and quality systems, including GMP, HACCP, ISO 22000, and FSSC 22000. Seeking opportunities in Quality Control, Quality Assurance, R&D, or Analyst.

EDUCATION

Brawijaya University

Bachelor of Biotechnology | GPA: 3.75 / 4.00

Malang, Indonesia

Aug 2022 – May 2026

- **Relevant Coursework:**

Introduction to Biotechnology, Microbiology & Industrial Biotechnology, Biomaterials, Biopharmaceuticals, Biotechnology Analysis Techniques, Quality Control, and Quality Management System and Halal Assurance.

WORK EXPERIENCE

BRMP Biogen

Laboratory Assistant Intern

Bogor

Jan 2025 – Jun 2025

- Performed end-to-end plant tissue culture for 30+ explants across four crop species following laboratory SOPs.
- Conducted seed quality testing (germination and moisture content) to support quality evaluation.
- Analyzed experimental data using Minitab (CRD & Tukey's HSD) to evaluate natural plant growth regulators.
- Managed 100+ mung bean germplasm accessions and handled contamination through re-sterilization procedures.

Brawijaya University

Basic Physics Laboratory Teaching Assistant

Malang

Aug 2023 – Dec 2024

- Guided 200+ students during laboratory practical sessions across six modules.
- Prepared laboratory equipment and ensured compliance with laboratory safety procedures.
- Evaluated laboratory reports and provided feedback on experimental accuracy.
- Assisted lecturers in maintaining smooth laboratory operations throughout each practicum.

SELECTED PROJECTS

Undergraduate Research

Sept 2025 – Dec 2025

Glutathione Production Optimization

- Optimized glutathione production from *Saccharomyces cerevisiae* using **Glycine, Glutamate, Cysteine amino acid**.
- Conducted **UV-Vis spectrophotometric analysis** and analyzed experimental data using **Minitab 20** and **Ms. Excel**.
- Achieved statistically significant optimization results with potential for scientific publication.

Community Development Project (KKN)

Jul 2024

Corn Silk Tea Development

- Designed and delivered corn silk tea processing training for **14 PKK participants** to promote value-added agricultural products.
- Developed training materials and evaluated learning outcomes using **IBM SPSS 27**, demonstrating a significant improvement in participants' knowledge (**p < 0.05**).
- Conducted community needs assessment to support the implementation of the training program.

LEADERSHIP EXPERIENCE

Hi-Talk Alumni Career Webinar – HIMALOGISTA FTAB UB

2025

Person In Charge (PIC)

- Led a cross-functional team of 17 members to plan and execute an alumni career webinar from concept to completion.
- Coordinated alumni speakers and cross-functional committees, achieving a 99.33% program success rate.

Study Club 2.0 – HIMALOGISTA FTAB UB

2024

Project Leader

- Led a team of 12 members to organize a peer-learning program supporting students' exam preparation.
- Coordinated mentors, schedules, and program execution to ensure smooth learning activities, achieving a 100% program success rate.

CERTIFICATIONS

- GMP (Good Manufacturing Practices) [[certificate](#)]
- HACCP (Hazard Analysis and Critical Control Points) [[certificate](#)]
- ISO 22000:2018 Food Safety Management System [[certificate](#)]
- FSSC 22000 version 6.0 [[certificate](#)]
- Microsoft Office Desktop Application [[certificate](#)]
- Analysis GC [[certificate](#)]

SKILLS & TOOLS

Language: Indonesian (Native), English (Intermediate)

Laboratory Techniques: Plant Tissue Culture | Seed Quality Testing | Microbiological Analysis | Sterile Technique | Experimental Design | Laboratory Documentation

Laboratory Equipment: Laminar Air Flow (LAF) | Biological Safety Cabinet (BSC) | Autoclave | UV-Vis Spectrophotometer | PCR | Gas Chromatography (GC) | Moisture Analyzer | Analytical Balance | Centrifuge | Vortex Mixer | Shaker Incubator | Colony Counter | Mikroskop | Mikropipet | Set Elektroforesis Agarose | Hidrometer | Alkohol Meter | Oven

Software: Minitab | IBM SPSS 27 | Design-Expert | BIOVIA | MEGA-X | PyRx | PyMOL | CLC Sequence Viewer, Microsoft Office, Canva