

DINDA KALISTA AURIELIE SIHOMBING

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PROFILE

Biology graduate with hands-on laboratory experience through undergraduate research and various laboratory assistant roles. Proficient in laboratory procedures, sample preparation, experimental data analysis, and laboratory documentation, with strong attention to detail and a structured approach to scientific work. Seeking opportunities in laboratory analysis, research & development, or quality within science-based industries.

EDUCATION

University of Indonesia | Bachelor of Science in Biology Aug 2022—Jul 2026

- **GPA:** 3.53/4.00

LABORATORY EXPERIENCE

Laboratory Assistant | University of Indonesia Aug 2024—Jun 2026

- Facilitated laboratory practical sessions across 6 undergraduate biology courses, including Basic Laboratory Techniques, Molecular Biology, Genetics, Plant Diversity, Plant Anatomy, and Plant Physiology.
- Prepared laboratory equipment, reagents, and experimental materials to support laboratory practical sessions
- Supervised and guided approximately 36 undergraduate students in conducting laboratory experiments while ensuring compliance with laboratory safety procedures, standard operating procedures (SOPs), and quality standards
- Assisted in grading laboratory reports, assignments, and practical examinations
- Maintained laboratory readiness by organizing laboratory materials, equipment, and laboratory documentation before and after each practical session

RESEARCH EXPERIENCE

Undergraduate Researcher Sep 2025—Jul 2026

Effects of Polyvinyl Alcohol-Modified Silver Nanoparticles (AgNP-PVA) through Soil Exposure on the Growth of Maize (*Zea mays* L.)

- Investigated the effects of AgNP-PVA applied through soil exposure on maize growth and physiological responses
- Conducted greenhouse experiments, sample preparations, and laboratory analyses to evaluate treatment effects on plant growth and physiological parameters
- Analyzed experimental data using statistical and image analysis software to interpret and document research findings

SKILLS & LANGUAGES

Technical Skills

- **Laboratory Skills:** Sample Preparation, Solution Preparation, Laboratory Procedures, Serial Dilution, Micropipetting, Centrifugation, UV-Vis Spectrophotometry, Laboratory Equipment Handling, Laboratory Documentation & Record Keeping, Laboratory Safety Procedure, Basic Aseptic Techniques
- **Software:** Microsoft Excel, Microsoft Word, Microsoft PowerPoint, SPSS, Origin, ImageJ

Languages: Indonesian (Native), English (TOEFL ITP 577)