

Caroline Khosasih

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Medan City, North Sumatra, Indonesia

SUMMARY

Bachelor's graduate in Biotechnology with hands-on experience in analytical laboratory testing, proximate analysis, electrochemical analysis, protein and carbohydrate analysis, and biosensor fabrication. Experienced in laboratory sample preparation, data interpretation, and the application of Good Laboratory Practice (GLP). Interested in Laboratory Analyst, Research Analyst, or R&D Analyst positions.

EDUCATION

Brawijaya University	Malang, East Java
Bachelor Degree of Biotechnology	<i>Aug 2022 - July 2026</i>
- GPA: 3.704 / 4.00 - Full-time program taught entirely in English	

EXPERIENCE

Balai Besar Badan Pengawas Obat dan Makanan (BBPOM)	Surabaya, East Java
Food Safety Facilitator	<i>Feb 2025 - June 2025</i>
- Improved GMP compliance of Micro and Small Enterprises (MSEs) by 42.6 percentage points through assistance in obtaining GMP Implementation License (IP-CPPOB). - Developed over 70 Good Manufacturing Practices (GMP) documents to support IP-CPPOB implementation, including manuals, SOPs, supporting forms, and SSOPs. - Supported food safety implementation in MSEs through GMP compliance inspections, documentation of inspection findings, and exposure to HACCP principles.	
Pusat Penelitian Kelapa Sawit	Medan, North Sumatra
Laboratory Intern	<i>Jan 2025 - Feb 2025</i>
- Performed protein and carbohydrate analyses on 64 oil palm stem samples using the Kjeldahl and Luff-Schoorl methods and interpreted analytical results. - Conducted moisture and oil content analyses of oil palm kernels.	

PUBLICATIONS

Electrochemical Biosensor Using Biosynthesized AuNPs for Phenolic Detection in Tea Leaf Extract	Malang, East Java
	<i>May 2026 - Present</i>
- Fabricated electrochemical biosensor using laccase and <i>Spirulina platensis</i>-biosynthesized gold nanoparticles. - Evaluated and compared the electrochemical performance of chemically synthesized and biosynthesized gold nanoparticles by analyzing 6 experimental samples. - Published the research findings in a Scopus Q2-indexed journal.	
The Effect of PANI Concentration Variation of the Performance of Laccase Enzyme-Based Biosensor for Catechol Detection	Malang, East Java
	<i>Sept 2025 - April 2026</i>
- Fabricated electrochemical biosensor based on Polyaniline-AuNPs/Laccase/Nafion for catechol detection. - Optimized polyaniline electropolymerization using cyclic voltammetry (CV) and evaluated biosensor's electrochemical performance by using 18 experimental samples. - Published the undergraduate thesis in a scientific journal.	

ACTIVITY

IAAS Brawijaya University	Malang, East Java
Treasurer	<i>June 2023 - Sep 2023</i>
- Managed budgeting and prepared activity budget plans (RAB) for organizational programs. - Controlled organizational expenditures by reviewing budget requests and ensuring organizational spending complied with approved budgets. - Prepared financial accountability reports (LPJ), annual, and final financial reports.	

Public Relation and Partnership

Feb 2023 - June 2023

- Initiated and negotiated partnerships with external organizations to support IAAS LC UB's programs.
- Coordinated MoU negotiations and partnership agreements with internal and external parties.
- Managed end-to-end collaboration processes, from partner outreach to partnership execution

SKILLS

- **Research & Laboratory:** Experimental design, experimental optimization, laboratory sample preparation, Good Laboratory Practice (GLP), electrochemical biosensor fabrication, electrochemical analysis, data analysis and interpretation.
- **Food Analysis:** Proximate analysis, protein analysis using the Kjeldahl method, carbohydrate analysis using the Luff-Schoorl method, moisture analysis, and oil content analysis.
- **Food Safety & Regulatory:** Good Manufacturing Practices (GMP), CPPOB, HACCP principles, Halal Product Assurance System (SJPH), BPOM food regulations, food manufacturing inspections, and technical documentation.
- **Software:** Microsoft Excel, Microsoft Word, PowerPoint, and Minitab (statistical analysis).
- **Languages:** Indonesian (Native), English (TOEFL ITP: 523), Hokkien (Intermediate).