

DIVA ARISANTI KAMILAINI

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PROFESSIONAL SUMMARY

Bachelor of Pharmacy graduate from Institut Teknologi Sumatera (ITERA) with a solid foundation in experimental research, laboratory operations, and pharmaceutical services. Experienced as an Undergraduate Research Assistant for a national strategic research grant (KATALIS BOPTN) and a Laboratory Assistant in Medical Biochemistry and Pharmacology. Skilled in in vivo and in silico research workflows, data analysis (SPSS & GraphPad Prism), and strict adherence to Standard Operating Procedures (SOPs) and Good Laboratory Practice (GLP). Holds a Co-Author publication in a SINTA 2-accredited journal and is formally acknowledged for laboratory technical contributions in a Scopus-indexed (Q2/Q3) international journal. Demonstrated strong scientific communication skills as an Oral Presenter at an international conference. Highly driven to build a long-term career in the pharmaceutical and cosmetics industry, specializing in Quality Control (QC), Quality Assurance (QA), Research & Development (R&D), and Production roles.

EDUCATION

Bachelor of Pharmacy (S.Farm.) — Institut Teknologi Sumatera (ITERA) | GPA 3.11/4.00

Undergraduate Thesis: “The Anti-Inflammatory Effect of Cinnamic Acid on Mice (*Mus Musculus*) Induced with Kappa-Carrageenan Using Paw Thickness as the Measurement Parameter.”

PROFESSIONAL & ACADEMIC EXPERIENCE

Pharmacology Practicum Assistant – Institut Teknologi Sumatera | September–December 2025

- Guided **49 undergraduate pharmacy students** through **8 comprehensive Pharmacology practical modules** (Animal Handling & Toxicity, Immunomodulators, Analgesics & Antipyretics, Anti-inflammatory In Vivo/In Vitro, ANS/CNS, Diabetes Mellitus, Hyperlipidemia, and Pharmacogenomics).
- Performed dose conversion calculations from human to animal models, determined drug administration volumes, and prepared serial dilution calculations for CNS, ANS, and anti-inflammatory drugs.
- Prepared stock solutions and drug suspensions, and conducted inventory stock-taking of key chemical reagents including Ether, Chloroform, Atropine, Pilocarpine, and Propranolol.
- Supervised pre-tests, led pre-laboratory briefings, and evaluated laboratory reports and practical performance.

Research Assistant (International Collaborative Project)– Institut Teknologi Sumatera | August–December 2024

- Executed in vivo and in vitro pharmacological assays for KATALIS BOPTN national strategic research grant, conducted as part of an international research collaboration co-funded by the Korea Health Industry Development Institute (KHIDI).
- Managed, maintained, and acclimatized 27 mice assigned to 9 treatment groups, and collected blood samples through tail vein sampling for sequential analysis and cardiac blood collection at the end of the treatment period.
- Induced acute inflammation using 1% kappa-carrageenan (0.05 mL) via subplantar injection and measured paw edema using a digital caliper, while monitoring locomotor and behavioral parameters at scheduled intervals.
- Analyzed EDTA-treated blood samples using a Hematology Analyzer to determine white blood cell profiles and measured AST and ALT biomarkers using a UV-Vis spectrophotometer.

Medical Biochemistry Practicum Assistant– Institut Teknologi Sumatera | September–December 2024

- Guided **44 undergraduate pharmacy students** across **7 core Medical Biochemistry laboratory modules** (qualitative/quantitative analysis of proteins, lipids, and carbohydrates; protein isolation & enzyme activity assays; enzyme kinetics; uric acid & AST/ALT assays; and total blood/urine analysis).
- Conducted stock-taking, physical verification, and prepared complex reagents and chemical solutions for laboratory modules.
- Validated the GOD-PAP enzymatic kit for glucose analysis using a UV-Vis Spectrophotometer and prepared biological test samples (*Mus musculus*) for AST, ALT, and complete blood analysis modules.
- Monitored laboratory safety compliance (PPE, GLP, and SOPs), conducted pre-tests, led pre-laboratory briefings, and evaluated student journals and lab reports.

Pharmaceutical Services Intern — Azizah Hospital, Metro | June–July 2024

- Assisted in verifying pharmaceutical invoices by checking medication names, quantities, and documentation against received items prior to storage.
- Assisted in organizing and monitoring pharmaceutical inventory through systematic storage and stock arrangement.
- Assisted in preparing medications and compounded formulations based on prescriptions and instructions from pharmacy professionals, ensuring accuracy of medication, dosage, quantity, and dosage form.
- Assisted in medication dispensing and provided patient education regarding dosage instructions, administration schedules, and proper medication use under the supervision of pharmacy professionals.

SCIENTIFIC PUBLICATION

Co-Author: Kamilaini, D. A., et al. (2025). “Bioactive Compounds of Insulin Leaves (*Smallanthus sonchifolius*) as DPP4 Enzyme Inhibitors in Insulin Signaling Mechanism for the Treatment of Type 2 Diabetes Mellitus: In Silico Study.” *Chimica et Natura Acta*, 13(1), 89–96. **SINTA 2 Accredited**. DOI: 10.24198/cna.v13.n1.55137

Technical Contributor (Acknowledged): Purwanata, I. G. R., et al. (2026). "Ethyl p-methoxycinnamate Exhibits Superior Multi-Modal Anti-Inflammatory Activity Compared to Structurally Related Cinnamic Acid Derivatives." *Journal of Pharmacopuncture*, 29(1), 61-73. **Scopus-Indexed (Q2/Q3)**. DOI: 10.3831/KPI.2026.29.1.61

SCIENTIFIC PRESENTATION & CERTIFICATION

Oral Presenter — The 3rd International Conference on Medical Science Health (ICOMESH), Universitas Lampung | Oktober 2025.

CORE COMPETENCIES

Laboratory & Pharmaceutical

- Pharmaceutical services and medication handling fundamentals
- Pharmacology and Medical Biochemistry
- Laboratory procedures and experimental protocols
- Experimental research
- Research data collection and documentation

Data & Digital Tools

- SPSS — Data processing and statistical analysis
- GraphPad Prism — Data analysis and AUC analysis
- Microsoft Excel — Data processing and analysis
- Microsoft Word & PowerPoint
- Scientific writing and presentation

SOFT SKILLS

Attention to Detail • Communication • Teamwork • Time Management • Responsibility

LANGUAGES

Indonesian — Native | English — Intermediate