

FIRDA AYU FADILA RAHMAWATI

Surakarta, Central Java, Indonesia | +6285974962573 | firdaayufadil@gmail.com

LinkedIn Profile: <https://11nk.dev/0qw7bxi>

Portfolio Website: <https://11nq.com/jkqvix8>

PROFILE SUMMARY

Pharmacist (Apothecary) and Scopus-published researcher specializing in advanced formulation development and process optimization. Proven leadership as a Project Leader in directing end-to-end R&D projects, resulting in a Scopus Q2 publication and multiple international awards. Experienced in pre-formulation studies, Design of Experiments (DoE), analytical method validation, and GMP/CPOTB environments, including technology transfer and scale-up of laboratory prototypes into production batches of 25,000+ units.

Additionally equipped with hands-on experience across clinical and industrial pharmacy settings, including hospital, community pharmacy, primary healthcare and pharmaceutical distribution, demonstrating strong adaptability, cross-functional collaboration (QA/QC & Production), and effective communication in dynamic environments.

EDUCATION

Universitas Muhammadiyah Surakarta – Surakarta, Central Java

Apothecary – GPA 3.76/4.00

Feb 2025 – April 2026

Universitas Muhammadiyah Surakarta – Surakarta, Central Java

Bachelor of Pharmacy – GPA 3.50/4.00

Aug 2021 – Feb 2025

WORK EXPERIENCE

PT. Rachmasari – Traditional Medicine & Cosmetic Industry

Professional Pharmacist Student Intern

June – July 2025

- Operated within a GMP & CPOTB-certified facility, ensuring all herbal and cosmetic production processes align with Indonesian regulatory standards (BPOM).
- Successfully facilitated the Technology Transfer of herbal formulations from laboratory scale to mass production of 25,000+ capsules, maintaining a 0% batch failure rate
- Monitored In-Process Control (IPC) and performed physical stability tests on new herbal prototypes to prevent active ingredient degradation.
- Optimized extraction, mixing, and encapsulation parameters to ensure the stability and uniformity of active herbal ingredients in final products.
- Demonstrated strong awareness of HACCP principles, including identifying critical control points (CCPs), maintaining hygiene standards, and supporting risk prevention in the production process.
- Authored and reviewed Batch Production Records (BPR) and IPC protocols, focusing on the standardization of traditional medicine dosage forms.

Lead Research

Undergraduate Projects

Feb 2022 - Dec 2024

- Technical Expertise & Methodology:
 - Herbal Formulation & Innovation: Led end-to-end R&D for novel bioactive delivery systems, specializing in oral formulations for metabolic and degenerative diseases
 - Phytochemistry & Extraction: Designed and executed Design of Experiments (DoE) to optimize the extraction of bioactive compounds from botanical sources like *Sonneratia caseolaris* and *Pometia pinnata*.
 - Analytical Standardization: Performed Gas Chromatography to quantify marker compounds, ensuring extract standardization for efficacy and safety.
 - Stability & PoC: Established Proof of Concept (PoC) and conducted accelerated stability testing to ensure the long-term viability of bioactive prototypes.
 - Scientific Publication: Authored a peer-reviewed paper in a Scopus Q2 Journal, demonstrating advanced expertise in herbal pharmacology and data-driven development.
- Key Research Portfolios & Achievements:
 - Project 1 (Pedada Fruit): Developed a hepatoprotector formulation; awarded Silver Medal at the International Invention Competition, Bali.
 - Project 2 (Matoa Leaves): Formulated a traditional antidiabetic oral dosage; secured 1st Place in a National Pharmaceutical Competition.
 - Project 3 (Single Cell Protein): Optimized a microbial fermentation bioprocess to produce soybean-based Single Cell Protein (SCP); earned a Bronze Medal in Thailand for innovative protein synthesis.
 - Project 4 (Antidiabetic Study): Successfully published research findings in a Scopus Q2 Indexed Journal.
 - Project 5 (Synergistic Formulation): Developed a combination of *Pometia pinnata* and antidiabetic

RS PKU Muhammadiyah Surakarta

Undergraduate Degree Internship

August 2024

- Skilled in operating HPLC and UV-Vis Spectrophotometry for high-precision analysis of complex biological matrices and biochemical markers.
- Experienced in handling and stabilizing biological samples, adhering to strict anti-contamination protocols to ensure analytical integrity.
- Applied Good Laboratory Practice (GLP) to maintain 100% data accuracy and consistency in a fast-paced diagnostic environment.

SKILLS

- Data & Software: Microsoft Office Suite (Expert in Excel & Word), Statistical Data Analysis, Scientific Writing & Publication.
- Laboratory & R&D: Phytochemical Screening, Solvent Extraction (Maceration, Soxhlet), Dosage Form Formulation, Stability Testing (Accelerated & Real-time), Design of Experiments (DoE), Proof of Concept (PoC).
- Instrumentation: HPLC, UV-Vis Spectrophotometry, Rotary Evaporator, Moisture Balance, Homogenizer, Dissolution Tester.
- Regulatory & Quality: CPOTB/CPOB (GMP), GLP, BPOM Registration Standards, Technology Transfer, Scale-up Operations, Method Validation, In-Process Control (IPC), HACCP
- Personal: Problem Solving, Critical Thinking, Attention to Detail, Interdisciplinary Teamwork, Project Management, Professional Work Ethics.

Languages: Indonesian and English Proficiency (Active Speaking & Writing).

ORGANIZATIONAL EXPERIENCE

- Liaison Officer – International Students Summit (ISS) (Sep – Oct 2024)
- Liaison Officer – International Cultural and Academic Competition (ICAC) (Apr – Jun 2024)
- Tutor – English for Pharmacy Purposes, LBIPU UMS (Sep 2022 – Jul 2023)
- Public Relations Communication – UKM PRISMA UMS (Jan 2022 – Jan 2023)
- Chief of Public Speaking Training – UKM PRISMA UMS (June 2022)

CERTIFICATES AND TRAININGS

- Oral Presentation, *International Conference Breakthrough in Pharmacy* (Scopus Q2 Indexed) | 2024
- Speaker at *Scientific Paper Review Session* – Research Management Center, UMS | 2024
- Short Training: *Scientific Presentation Techniques* – National Research and Innovation Agency (BRIN) | 2024
- Delegate of WHO – Iceland at *International Model United Nations (IMUN)* 2023, Manila, Philippines | 2023
- Leadership & Managerial Training I, Faculty of Pharmacy – UMS | 2021
- Training: Understanding of CPOTB/CPOBAB & HACCP – Integration of Quality Systems in Traditional Medicine Industry | 2026

ACHIEVEMENTS

- Oral Presentation, *International Conference Breakthrough in Pharmacy* (Scopus Q2 Indexed) | 2024
- Outstanding Faculty Student, Universitas Muhammadiyah Surakarta (UMS)
- 3rd Place, National Essay Competition (Pharasoed) – Universitas Jenderal Soedirman (UNSOED) | 2023
- BAZNAS Scholarship (Outstanding Student Category) – Badan Amil Zakat Nasional (BAZNAS) | 2023
- 1st Winner, International Competition (UMP-ISCONEX) – Universitas Muhammadiyah Purwokerto | 2023
- 2nd Runner-Up, Speech Competition – LBIPU Universitas Muhammadiyah Surakarta (UMS), Surakarta | 2023
- Bronze Medalist, International Competition (TID) – Bangkok, Thailand | 2023
- 1st Winner, National Essay Competition – GEMFAR, Universitas Muhammadiyah Surakarta (UMS) | 2022
- Silver Medalist, International Competition (IID) – Bali, Indonesia | 2022
- 1st Winner, National Essay Competition – HM Poltekkes Kemenkes Surakarta, Surakarta | 2022
- 3rd Place Winner, National School Debating Championship (NSDC), Senior High School Level | 2019

PUBLICATIONS

- International Journal (Q2)
[*Effectiveness And Safety Of Use Of Biguanide And Sulfonylurea Drugs With Histopathological Analysis And Parameters Of The Kidney, Liver And Pancreas In Alloxan-Induced Rats.*](#)
- National Journal Publications (2 articles)
Journal 1: [*Peningkatan Pengetahuan Remaja dalam Memilih Obat Swamedikasi Nyeri Haid dan Nyeri Gigi di Desa Ngalas, Klaten Selatan*](#)
Journal 2: [*Peningkatan Kualitas Kesehatan Masyarakat Di Desa Potronayan Kecamatan Nogosari Melalui Pelayanan Pengobatan Gratis*](#)

Firda Ayu Fadila Rahmawati
Pharmacist | Apothecary

Portfolio Link:

<https://l1nq.com/jkqvix8>



Overview

This portfolio is presented in an online format to provide a more comprehensive and structured view of my experiences, including research projects, leadership roles, and professional training.

Through this portfolio, I highlight my experience in pharmaceutical research and development, cross-sector professional training (PKPA), as well as leadership and international exposure relevant.

Key Highlights:

- Led multiple pharmaceutical R&D projects (2022–2024) from concept to publication
- Published research in a Scopus-indexed journal
- Awarded in international and national competitions
- Completed Pharmacist Professional Training (PKPA) across 5 sectors
- Demonstrated leadership through academic and organizational roles

Note

For the best viewing experience, please access the full portfolio via the link above.