

Dafina Aisya Fitri

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Research-driven with a strong foundation in analytical chemistry, pharmaceutical analysis, and laboratory research. Experienced in applying instrumental analytical techniques, including HPLC, TLC, GC, and FTIR, through academic research and laboratory assistance. Familiar with pharmaceutical quality systems through professional internship in the pharmaceutical industry, including quality assurance activities and analytical evaluation. Possesses strong analytical thinking, problem-solving, and scientific documentation skills with a keen interest in analytical method development and pharmaceutical product development.

EDUCATION

Professional Pharmacist Program, Gadjah Mada University

Aug, 2025 – Aug, 2026

GPA: 3.94/4.00

Conducted pharmaceutical care internship at various level of healthcare settings and pharmaceutical industry

Bachelor of Pharmacy, Gadjah Mada University

Aug, 2021 – Mar, 2025

GPA: 3.83/4.00

Key Subjects: Analytical Chemistry, Medicinal Chemistry, Chromatography, Molecular Biology, Organic Chemistry, and the Synthesis of Medicinal Raw Materials

EXPERIENCES

Quality Assurance Intern, PT. Kalbe Farma Tbk

Dec, 2025– Jan, 2026

- Prepared Product Quality Review annexes for multiple pharmaceutical products and performed root cause analysis of incident reports (~30 cases) and defined CAPA
- Developed cleaning validation (CV), DHT study, and qualification protocols, including risk assessments and documentation.
- Conducted risk assessments for utility systems and supported QA compliance activities.

Certification & Inspection Intern, BBPOM Yogyakarta

Apr, 2025 – May, 2025

- Supported preparation of audit and certification documents for CPOTB, CPKB, and IP CPPOB compliance.
- Assisted MSMEs in self-assessments, certification readiness, product registration, and licensing (Pelayanan Prima initiative)
- Contributed to drug risk classification and food product categorization (BPOM standards).

Laboratory Assistant, Faculty of Pharmacy Gadjah Mada University

Jan, 2022 – Dec, 2024

- Successfully assisted 6 laboratories at the Faculty of Pharmacy Gadjah Mada University, including Basic Pharmaceutical Chemistry Laboratory, Analytical Chemistry I & II Laboratory, Chromatography Laboratory, Drugs and Cosmetics Analysis Laboratory, and Pharmacognosy-Phytochemistry Laboratory.
- Conducted and demonstrated analytical laboratory techniques, including HPLC, GC, TLC, FTIR, UV–Vis spectroscopy, and volumetric titration, in accordance with compendial methods (Farmakope) and good laboratory practice (GLP), while assisting students with instrument operation, analytical procedures, and data interpretation.
- Supervised the implementation of practicum, provided mentoring and direct technical assistance for more than 100 students per semester, ensuring smooth running and adherence to laboratory protocols along with providing report grades for practicum participants.

PROJECTS & PUBLICATION

Purification of Paracetamol from *p*-Aminophenol Impurity through Recrystallization Method Using Lactic Acid, Salicylic Acid, and Tartaric Acid as Co-Crystallization Agents (Thesis)

2025

Researched purification of paracetamol from *p*-aminophenol impurities through recrystallization with addition of lactic, salicylic, and tartaric acids. The project involved evaluating purity and crystallinity of paracetamol using TLC, HPLC, FTIR, and XRD.

Exploring the Anti-cancer Effect of Ethanol Extract of Jamaican Cherry (*Muntingia calabura* L.) Leaves on CT26 Colorectal Cancer Cells through WNT Signaling (Published) 2025

Investigated the therapeutic potential of *M. calabura* extract against colorectal cancer, focusing on rutin content. Conducted extraction, MTT cytotoxicity assay, molecular docking, and qRT-PCR, demonstrating moderate cytotoxicity and WNT pathway modulation. The findings suggest potential anti-cancer effects of *M. calabura*, published at <https://doi.org/10.22146/mot.94297>.

Floss-Based Drug Delivery of *Centella asiatica* Extract for Treatment of Leprosy (Published) 2025

Co-authored an academic opinion article discussing the potential of a novel floss-based drug delivery system using *Centella asiatica* extract for the treatment of leprosy. The article highlights the therapeutic properties of *C. asiatica* and proposes an innovative, patient-friendly delivery approach to improve drug absorption, adherence, and accessibility, particularly in resource-limited settings. Published at Phuture, issued by International Pharmaceutical Students Federation (IPSF).

Vaginal Mucoadhesive Tablets of Ginger and Cinnamon: A Potential Adjuvant Therapy for PCOS (Published) 2025

Co-authored an academic opinion article exploring a novel vaginal mucoadhesive drug delivery system using ginger and cinnamon extracts as potential adjuvant therapy for Polycystic Ovary Syndrome (PCOS), focusing on anti-inflammatory and insulin-sensitizing effects to improve therapeutic efficacy and local drug delivery. Published at Phuture, issued by International Pharmaceutical Students Federation (IPSF).

WORKSHOP & TRAINING

From Docking to Dynamic: Exploring Molecular Interactions through Hands-on Drug Design Simulations 2025

Participated in an intensive hands-on workshop on molecular docking and molecular dynamics simulations, applying computational tools to analyze protein–ligand interactions and gaining foundational expertise in structure-based drug design for early-stage drug discovery.

TEACHING

High School Tutor, Bimbel Cerdiktikta 2022 – now

Taught Mathematics, Physics, Biology and Chemistry to 10+ high school students and provided tailored lesson plans through one-on-one sessions.

Chemistry Tutor, Faculty of Pharmacy UGM 2022 - 2023

Tutored over 100 pharmacy students in Pharmaceutical Chemistry, Analytical Chemistry, and Organic Chemistry, delivering concept-focused instruction and examination preparation support for mid-term and final assessments.

HONORS & AWARDS

Top 5th International Rx Competition, International Pharmaceutical Students Federation (IPSF) 2025

1st Winner of Infographic Poster, Pharmacious UGM 2024

1st Winner of Review Article, International Pharmaceutical Students' Federation (IPSF) 2024

Finalist of National Scientific Week - Gagasan Futuristik Tertulis (GFT), Pekan Kreativitas

Mahasiswa 2023

2nd Runner Up of Public Poster Competition, RANALHAECOM PSIK UPNV Jakarta 2023

2nd Runner Up of Scientific Paper, OLGENAS UGM 2023

SKILLS

Technical Skills : HPLC, GC, TLC, FTIR, UV-Vis Spectroscopy, molecular docking, qRT-PCR, and phytochemical analysis

Software : Microsoft Excel, Microsoft Word, Microsoft PowerPoint, ChemDraw

Language: Indonesian (Native), English : IELTS Academic — Overall Band Score 8.0 (2025)