

Rosalina Diani Prima Anargya

Apothecary Graduate

 rosallinalina0@gmail.com  +6281393067280  Yogyakarta, Indonesia  linkedin.com/in/rosalina-diani-prima-anargya

PROFILE

Registered Pharmacist with hands-on experience in **preclinical drug discovery and pharmaceutical formulation development**, including **nanoparticle-based drug delivery systems** supported by *in silico* modeling, *in vitro* cell-based assays, and *in vivo* validation studies. Experienced in bridging laboratory-scale formulation with biological evaluation, with strong analytical capability and data-driven decision making to support **formulation optimization and translational readiness for industrial R&D**.

EDUCATION

Universitas Gadjah Mada  <i>Pharmacist Professional Program (Apt/RPh)</i> - GPA: 3.98/4.0 - Completed Apothecary Professional Internship with exposure to pharmaceutical industry, community pharmacy, and clinical practice. - Strengthened understanding of GMP/CPOB principles, quality systems, and pharmaceutical care. - Involved in research-driven formulation and preclinical development projects supporting translational pharmaceutical innovation.	08/2024 – 08/2025 Yogyakarta, Indonesia
Universitas Gadjah Mada  <i>Bachelor of Pharmacy (S.Farm/BPharm)</i> - GPA: 3.91/4.0 - Thesis: Anti-inflammatory Activity of Curcumin Analogues A115 on Carrageenan-Induced Rat Paw Edema and Expression of Interleukin-6. - Actively involved in research as an assistant on various lecturer-led projects, including <i>in vitro</i>, <i>in vivo</i>, and <i>in silico</i> studies related to natural products and drug discovery. - Extensive experience as a laboratory assistant in multiple departments, covering a wide range of pharmaceutical disciplines, including biological pharmacy, pharmaceutical technology, and pharmacology and clinical pharmacy. - Actively participated in university and regional health organizations, including Jaringan Mahasiswa Kesehatan Indonesia (JMKI), Kucing UGM, and the Cancer Chemoprevention Research Center (CCRC), contributing to scientific outreach and community health initiatives.	09/2020 – 02/2024 Yogyakarta, Indonesia

PROFESSIONAL EXPERIENCE

Research Project Assistant <i>Universitas Gadjah Mada</i> - Contributed to 7 preclinical research projects focused on drug discovery involving curcumin analogues and natural bioactive compounds, supporting candidate selection and translational development strategies. - Applied bioinformatics, cheminformatics, and pharmacokinetic modeling tools to predict the therapeutic potential of bioactive compounds, ensuring a more targeted approach to the optimization of drug candidates and accelerating the transition to clinical trial readiness. - Developed and optimized nanoparticle-based drug delivery systems, including chitosan-based formulations for peptide hydrolysates, integrating laboratory-scale formulation with biological validation. - Performed laboratory-based assays, including phytochemical screening (TLC), moisture and extract analysis, primary cell isolation, and cell-based assays, which were crucial in determining the efficacy of compounds and supporting the design of robust drug formulations. - Supported animal model studies, including acute toxicity and inflammation assays, as well as histopathological analysis, providing essential data for safety profiling and supporting the optimization of drug formulation parameters. - Processed and interpreted research data; co-authored and contributed to the publication of research articles and literature reviews, contributing to the scientific community's understanding of bioactive compounds and facilitating the knowledge transfer necessary for advancing development pipelines.	06/2024 – present Yogyakarta, Indonesia
Pharmaceutical Industry Student Intern: Department of Continuous Improvement <i>PT Bayer Indonesia Cimanggis Plant</i> - Evaluated batch-to-batch changeover processes in 2 effervescent lines and 1 blister area to optimize workflow efficiency. - Conducted Root Cause Analysis on freight delays using tools such as Fishbone Diagram, 5 Whys, and Pareto Analysis, leading to actionable recommendations in cargo flow management. - Performed cycle time analysis on pallet handling processes in 2 effervescent lines and 3 blister areas to assess operational efficiency, improving overall warehouse and supply chain productivity. - Analyzed material flow efficiency within warehouse and production areas, utilizing historical data trends to streamline warehouse-production integration and reduce bottlenecks.	02/2025 – 03/2025 Depok, Indonesia

- Monitored **unplanned downtime and machine utilization** in effervescent line to identify patterns, supporting data-driven decisions for preventive maintenance.

Undergraduate Student Laboratory Assistant
Universitas Gadjah Mada

08/2021 – 06/2024
Yogyakarta, Indonesia

- Supported practical learning across **15 laboratory courses**, including **pharmaceutical chemistry, pharmaceutical biology, pharmaceutical technology, and pharmacology and clinical pharmacy**. Collaborated with lecturers to deliver technical material and provide hands-on guidance for **over 150 students**, while also evaluating and providing constructive feedback on **more than 100 lab reports**.
- **Assisted in the lab-scale manufacturing** of various pharmaceutical preparations, including tablets, eye drops, injections, and herbal products, gaining comprehensive exposure to formulation processes and quality control, which are vital for ensuring product consistency in the pharmaceutical industry.
- **Guided students through organic synthesis** lab-scale, including the synthesis of acetaldehyde, paracetamol, benzoic acid, and curcumin analogues, honing skills in reaction design and purification techniques.
- **Supported analytical chemistry labs**, utilizing techniques like spectrophotometry, chromatography, and titrimetry to assess the quality and purity of pharmaceuticals, cosmetics, and food products.

PROJECTS

Research Assistant – Experimental Pharmacology and Toxicology Laboratory <i>Immunostimulant Evaluation of 4Life Transfer Factor Plus Tri-Factor Formula</i>	02/2026 – 04/2026
• Coordinated and executed preclinical immunostimulatory evaluation using tetanus toxoid challenge models and ELISA-based immune assays to support evidence-based product validation in industry collaboration.	
Research Assistant – Experimental Pharmacology and Toxicology Laboratory <i>Development of Nano-Chitosan Sea Cucumber Peptide as an Innovative Immunomodulatory Nutraceutical</i>	09/2025 – 03/2026
• Developed and optimized nano-chitosan-based peptide delivery systems integrated with <i>in silico</i> modeling and <i>in vivo</i> immunomodulatory validation (OECD 420 toxicity and vaccine challenge models) to support translational nutraceutical formulation.	
Research Assistant – Pharmacognosy and Phytochemistry Laboratory <i>Quality Evaluation for Herbal Standardization: Leucas lavandulifolia Sm. Monograph Development for Farmakope Herbal Indonesia (FHI)</i>	07/2024 – 12/2024
• Collaborated with the Indonesian Ministry of Health to develop <i>Leucas lavandulifolia</i> monograph for the Indonesian Herbal Pharmacopeia through phytochemical analysis (maceration, TLC profiling, moisture and ash content determination, and extract quantification using TLC-densitometry).	
Research Assistant – Molecular Modeling & Experimental Pharmacology Laboratory  <i>Preclinical Drug Discovery Projects (Curcumin & Synthetic Analogues)</i>	06/2024 – 12/2025
• Performed integrated <i>in silico</i> , <i>in vitro</i> , and <i>in vivo</i> studies, contributing to multiple peer-reviewed publications.	

KEY ACHIEVEMENTS	LANGUAGES
Best Graduate with Highest GPA • Achieved highest GPA in Bachelor of Pharmacy and contributed to significant preclinical research.	Indonesia English

SKILLS

Pharmaceutical & Laboratory Skills • Good Laboratory Practices (GLP) & Good Manufacturing Practices (GMP) • Pharmaceutical Formulation (solid, semi-solid, sterile preparations) • Analytical Techniques: Chromatography (TLC, HPLC), Spectrophotometry, Titrimetry • Phytochemical Screening & Quantification • Molecular Modeling & Bioinformatics Tools • Cell-based Assays (ELISA, PCR)	Scientific Documentation and Data Handling • Scientific Writing & Publication (co-author in international journals) • Data Processing & Statistical Analysis (GraphPad Prism, IBM SPSS, ImageJ) • Visualization & Illustration (BioRender)
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