

IQBAL ZULQIFLI

Garut, October 18, 2005 | 160 cm | 54 kg
zulqifliizul@gmail.com | 0858-4681-2554 | Karawang, West Java
<https://id.linkedin.com/in/iqbal-zulqifli-21899628b>

A graduate of the Pharmacy program at Singaperbangsa University in Karawang and a recipient of the Pertamina Foundation's "Sobat Bumi" scholarship, with experience as a researcher, lab assistant, in competitions, student organizations, and internships in the pharmaceutical industry. Has experience in the development of solid dosage forms in the pharmaceutical industry, including the formulation process, optimization, and product evaluation. Experienced as a Laboratory Assistant in Pharmaceutics and Formulation Technology for liquid and semisolid dosage forms, including the formulation and manufacture of cosmetics, as well as the quality evaluation of dosage forms. Additionally, I have experience as a researcher and research assistant in the field of Pharmaceutical Technology, involved in formulation development, dosage form evaluation, experimental research, and product development. I completed my final thesis in Pharmaceutical Technology with a focus on formulation development, establishing analytical methods, and dosage form evaluation. I am active in organizations, research, competitions, and training, which have helped me build my analytical, communication, teamwork, and problem-solving skills. I am passionate about continuous learning and eager to contribute to the pharmaceutical industry, particularly in the areas of Research & Development, Quality Control (QC), and Quality Assurance (QA).

EDUCATION

Bachelor of Pharmacy, Faculty of Health Sciences,, Universitas Singaperbangsa Karawang 2022 – 2026

- GPA: 3.90 / 4.00.
- Thesis: Hydrophobic Ion Pairing Strategy Using Disodium Pamoate on PLGA Microparticles for he Controlled Release of β -Hydroxybutyrate

Pharmacy, Bhakti Kencana Health Vocational School

2019 – 2022

Second-Place Best Graduate-Final Grade: 93.54/100

PROFESSIONAL EXPERIENCE

Research Assistant - Regular Fundamental Research Grant Program (PFR), Sep 2025 - Jul 2026
Ministry of Higher Education, Science, and Technology

Laboratory of Pharmaceutics, Solid Dosage Form Technology, Pharmaceutical Chemistry, Pharmaceutical Microbiology, Organic Chemistry and Basic Biology, Pharmacy Universitas Singaperbangsa Karawang

- Contributed to research and development of a PLGA (poly(lactic-co-glycolic acid)) microparticle-based Sustained Drug Delivery System (SDDS) using a hydrophobic ion pairing strategy as a delivery system for β -hydroxybutyrate for the management of type 2 diabetes mellitus and obesity.
- Conducted literature reviews, formulation design, microparticle preparation, and formulation process optimization to improve encapsulation efficiency and drug release characteristics.
- Optimized analytical methods and compound derivatization to enable testing using a UV detector
- Modify the pharmaceutical properties of β -hydroxybutyrate to make it more hydrophobic using the Hydrophobic Ion Pairing (HIP) method mediated by the divalent Mg cation
- Evaluate the HIP complex using FTIR and DSC
- Formulate the HIP complex with PLGA via the emulsion solvent evaporation method
- Characterize and evaluate microparticles, including encapsulation efficiency, particle size, size distribution, morphology, and drug release profile using HPLC.
- Conduct drug release kinetics analysis
- Process, analyze, and interpret research data using appropriate statistical methods.
- Prepare a research report

Research Staff - Student Creativity Program in Exact Sciences Research
(PKM-RE), Kementerian Pendidikan Tinggi, Sains, dan Teknologi

Apr 2024 - Ags 2024

Laboratories of Pharmaceutics, Solid Dosage Form Technology, Pharmaceutical Chemistry, Natural Products, and Pharmaceutical Microbiology, Pharmacy Universitas Singaperbangsa Karawang

- Contributed to the design, implementation, and analysis of experimental research related to the development of a Dissolving Microneedle (DMN)-based Transdermal Drug Delivery System (TDDS) for acne therapy.
- Conducted the preparation of crude drugs, extraction, phytochemical screening, and standardization of specific and nonspecific parameters of crude drugs and duckweed leaf extracts as active ingredients in the formulation.

- Develop Dissolving Microneedle (DMN) formulations; conduct quality evaluation of the preparations, microneedle characterization, irritation testing, and formulation optimization.
- Perform the rejuvenation and maintenance of bacterial cultures to ensure the viability of microorganisms.
- Sterilize equipment, materials, and media using appropriate sterilization methods.
- Prepare and set up bacterial growth media.
- Apply aseptic techniques during inoculation and culture transfer to prevent contamination.
- Perform bacterial inoculation and culture transfer in accordance with laboratory operating procedures.
- Conduct in vitro acne-fighting activity testing, analyze research results, and interpret data using scientific methods.
- Contribute to the preparation of proposals, progress reports, final reports, and scientific publications

Laboratory Assistant - Liquid and Semisolid Formulation Technology

Feb 2026 - Jul 2026

Liquid and Semisolid Formulation Technology Laboratory, Universitas Singaperbangsa Karawang

- Supervise laboratory sessions on Liquid and Semisolid Dosage Form Formulation Technology and guide students throughout the laboratory process.
- Assist in preparing raw materials, equipment, and laboratory procedures in accordance with laboratory standards.
- Formulate, prepare, and evaluate various pharmaceutical dosage forms, including elixirs, syrups, suspensions, drops, emulsions, creams, gels, ointments, and suppositories.
- Formulate and prepare various cosmetic products, including lipstick, lip balm, serum, milk cleanser, lotion, and scrub.
- Conduct quality evaluations of preparations according to established parameters, such as organoleptic properties, pH, homogeneity, viscosity, spreadability, dispensed volume, specific gravity, melting time, leakage test, disintegration time, hedonic test, emulsion type, cream type, sedimentation volume test, and stability test, as appropriate for the type of preparation.

Laboratory Assistant - Pharmaceutical Sciences

Jan 2023 - Jul 2023

Pharmaceutical Sciences Laboratory, Pharmacy Universitas Singaperbangsa Karawang

- Perform basic formulation and preparation of various pharmaceutical dosage forms, including powders, capsules, tablets, elixirs, syrups, suspensions, emulsions, creams, gels, and ointments.
- Conduct quality evaluations of pharmaceutical preparations according to established parameters
- Provide technical guidance to students during laboratory sessions and document the sessions, manage chemicals, and maintain laboratory cleanliness and readiness.

Pharmacy Internship - Pharmaceutical Industry

Jun, 2025

Lembaga Farmasi Angkatan Laut Drs. Mochamad Kamal, Central Jakarta

- Conducted a project in the research and development department to formulate solid effervescent vitamin C tablets using a hybrid method that combines dry and wet granulation, which included the granulation process, granule evaluation, tablet compression, and tablet quality evaluation.
- Participating in training and the implementation of Good Manufacturing Practices (GMP) across various aspects of the pharmaceutical industry, including Research & Development (R&D), Quality Control (QC), Quality Assurance (QA), Production Planning and Inventory Control (PPIC), production, qualification and validation, facility and personnel management, risk management, HVAC systems, water treatment systems, scale verification, cleanroom testing, drug registration, and pharmacovigilance.

Pharmacy Internship - Clinical Pharmacy

Apr, 2025

Rumah Sakit Umum Daerah Kabupaten Karawang, Karawang

- Participate in the management of pharmaceutical logistics, including the selection, needs assessment, procurement, receipt, storage, distribution, recall, inventory control, and documentation of pharmaceutical products, medical devices, and medical supplies.
- Support the dispensing of pharmaceutical products, track medication use, document pharmaceutical services, and participate in Drug Information Services (PIO), Drug Therapy Monitoring (PTO), Adverse Drug Reaction Monitoring (MESO), and Drug Use Evaluation (EPO) activities.

Pharmacy Internship - Clinical Pharmacy

Sept 2022 - Okt 2022

UPTD Puskesmas Cisarupan, Garut

- Melakukan peracikan, penyiapan, dan perhitungan dosis sediaan farmasi sesuai standar pelayanan
- Compound, prepare, and calculate doses of pharmaceutical preparations in accordance with pharmaceutical service standards
- Participate in the management of pharmaceutical logistics, including planning, procurement, storage, distribution, and inventory control of pharmaceutical preparations and medical devices.
- Maintain records and documentation related to the management of pharmaceutical preparations and medical devices.
- Prepare sterile preparations and reconstitute antibiotics in accordance with aseptic procedures.

TRAINING AND CERTIFICATION

Liquid Chromatography Fundamental – One Day Training

Jun, 2026

PT DITEK JAYA, West Jakarta

Training on the principles of High-Performance Liquid Chromatography (HPLC), instrumentation, sample preparation, troubleshooting, chromatogram interpretation, qualitative analysis, and quantitative analysis

Quality Assurance in Pharmaceutical Industry

Ags, 2026

MAKIN AHLI

FOOD SAFETY (GMP, HACCP, ISO 22000:2018, FSSC 22000 VERSION 7.0)

Ags, 2026

MAKIN AHLI

Quality Control Management in Pharmaceutical Industry

Mei, 2026

LATIH

Cara Pembuatan Kosmetik yang Baik (CPKB) dan Cara Pembuatan Obat yang Baik (CPOB), PT. Teman Group Indonesia

Jul, 2026

Raw Material and Packaging Material Analysis

Jul, 2025

LATIH

Pharmaceutical Technician and Pharmacist Assistant

Mar, 2022

Badan Nasional Sertifikasi Profesi (BNSP)

AWARDS

Scholarship Recipients Sobat Bumi – Pertamina Foundation

2022-2024

Awarded in recognition of academic achievement and active participation in community service activities in the fields of the environment and renewable energy.

First Place – Pharmaceutical Dosage Form Development Competition

Mei, 2025

Indonesian Pharmaceutical Science Week (Faculty of Pharmacy, Bhakti Kencana University)

Top 5 – National Scientific Essay Contest

Des, 2025

Faculty of Pharmacy, Ahmad Dahlan University

Optimization of Polylactic Acid Microneedle Patches Containing L-Theanine from Camellia sinensis Using a Divalent Cation Hydrophobic Ion Pairing Strategy as an Adjuvant Therapy for Schizophrenia

Semifinalists (Top 8 out of 63 Teams) – Clinical Pharmacy Skills Event

Feb, 2025

Faculty of Pharmacy, Airlangga University

Theme: Oncological Diseases of the Human Body

ORGANIZATION

Coordinator Sobat Bumi Karawang

2023 - 2024

- Leading a community-based organization focused on environmental conservation, renewable energy development, and community empowerment.
- Designing, coordinating, and implementing environmental education programs, reforestation initiatives, and campaigns to reduce plastic waste.
- Initiating programs for renewable energy utilization and community empowerment through green

skills training and entrepreneurship based on local potential.

- Build collaborations with various stakeholders and manage outreach activities through digital media and community networks to raise public awareness about the energy transition and environmental conservation.

Staff of the Department of Communications and Information

Faculty of Health Sciences Student Executive Board, Universitas Singaperbangsa Karawang 2023

- .Manage the organization's internal and external communication channels to support the publication of student work programs, activities, and advocacy efforts.
- Design visual content, publication materials, and documentation, and develop digital communication strategies through social media.
- Collaborate with various departments on the production of multimedia content, event coverage, and the management of the organization's archives and documentation.

PROJECT EXPERIENCE AND VOLUNTEER WORK

Formulator & Community Educator Jun, 2026

- Educating the residents of Warung Bambu Village, Karawang Regency, about Chamomile Gummies as an Introduction to Natural-Ingredient-Based Nutraceuticals
- Serving as a formulator in the development of Chamomile Gummies as a natural-ingredient-based nutraceutical product
- Conducted formulation, optimization, and quality evaluation of the product, including physical and organoleptic characteristics, stability, and product acceptance.
- Provided education to the community on the concept of nutraceuticals, the benefits of natural ingredients, and the potential for product development as part of health promotion and prevention efforts.

Speaker Mei, 2026

- Prevention and Management of Diabetes Mellitus Through a Healthy Diet and Herbal Remedies at the Roudotul Burhan Islamic Boarding School
- Unlocking the Secrets of Puberty with Pituitary Pioneers, Al-Arabi High School, Bekasi

Moderator Mei, 2024

- Webinar Nasional Pharmafulent: *Inspiration to be a Success Young Entrepreneurship*
- Sekolah Kastrad Farmasi

Kepanitiaan

- *Chief Executive Officer*, Gerakan Mengurangi Emisi Desa Des, 2023
- *Chief Executive Officer*, Latihan Dasar Kepemimpinan Fakultas Ilmu Kesehatan Nov - Des, 2024
- *Head of Event Division*, Sobat Bumi Charity Mar, 2023
- *Head of Logistics*, Desa Energi Berdikari UNSIKA Jan - Mar, 2024
- *Head of Sponsorship*, National Competitions and Webinars Pharmacoforev Sep - Des, 2023
- *Staff of Documentation and Decoration*, Dies Natalis Farmasi UNSIKA Okt - Des 2024
- *Head of Logistics*, FIKES Garis Depan di Rumah Harapan Asrama Yatim Piatu Dhu'afa Okt, 2023
- Aksi Tanam 500 Mangrove di Pantai Cilamaya Wetan Karawang, Participant Ags, 2023
- Mentor, Masa Bimbingan Mahasiswa Farmasi 2023
- *Logistic Staff*, PKKMB Fakultas Ilmu Kesehatan Universitas Singaperbangsa Karawang Mei, 2024

SCIENTIFIC PUBLICATIONS

Pharmacogenomics β -Blockers in Cardiovascular Disease: Implications for Blood Pressure 2026

and Clinical Outcomes, Indonesian Journal of Pharmaceutical Science and Technology

I. Zulqifli, J. Malau, F. A. Aditya, R. N. Nursyafillah, L. Harbulcholizi, R. Rahmasari, M. Raekiansyah, A. A. Hermosaningtyas

Kajian Literatur: Mekanisme Molekuler dan Potensi Tanaman Herbal sebagai Agen 2026

Antihepatitis B, Jurnal Integrasi Kesehatan & Sains

M. A. Mulki, I. Zulqifli, A. S. Ainaputri, N. Hikmah, L. M. Sabrina, S. A. T. Habsari, I. Ardhita

Interaksi Obat-Herbal dengan Agen Hormon dalam Terapi Kanker: Tinjauan Mekanisme 2025

dan Implikasi Klinis, Journal of Pharmaceutical and Sciences
I Zulqifli, N Hikmah, TP Shella, NF Azizah, RD Apriani, MD Putri, IL Hilmi

Therapeutic Efficacy of β -Hydroxybutyrate Supplementation on Weight Loss and Glycemic Control in Fasted Obese and Diabetic Mice, Tropical Journal of Natural Product Research 2025
R. N. Balapadang, I. Zulqifli, D. S. Damara, O. N. Fadilah, H. Sudarjat

Article Review: Formulasi dan Evaluasi Microneedle Mukoadhesif Buccal dengan Berbagai Metode Pembuatan, Jurnal Ilmiah Respati 2025
K. N. Aini, A. A. Zahra, L. M. Sabrina, V. S. Maulida, I. Zulqifli, M. Rafita, H. E. Putra

Drug Repurposing for Monkeypox: An Alternative Strategy for Emergency Response, Journal of Pharmaceutical Science and Clinical Research 2025
L. Harbulcholizi, J. Malau, I. Alfandri, I. Zulqifli, R. Rahmasari

Formulation and Evaluation of Transdermal Dissolving Microneedle Loaded with Ethanol Extract of Cocor Bebek Leaves (*Kalanchoe pinnata*), Pharmacy & Pharmaceutical Sciences Journal 2024
R. N. Balapadang, A. D. Sarie, S. Rosyidah, I. Zulqifli, M. N. Akifah, A. A. Zahra

KEAHLIAN TERKAIT

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- Soft skills** : Possesses effective communication skills, teamwork, analytical thinking, problem-solving, attention to detail, time management, adaptability, leadership, as well as a commitment to continuous learning and integrity in the workplace.
- Technical Skills** : Experienced in using various laboratory instruments for the formulation, characterization, and quality evaluation of pharmaceutical preparations, including an Analytical Balance, Hardness Tester, Friability Tester, Disintegration Tester, Dissolution Tester, Tap Density Tester, Vernier Caliper, Brookfield Viscometer, pH Meter, Pycnometer, Franz Diffusion Cell, Moisture Analyzer, UV -Visible Spectrophotometer, High-Performance Liquid Chromatography (HPLC), Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIR), Titration, Homogenizer, Magnetic Stirrer, Sonicator, Hot Plate Stirrer, Micropipette, Oven, Centrifuge, Sieve Shaker, Freeze Dryer, Shaking Incubator, Autoclave, Biological Safety Cabinet (BSC), Colony Counter, Incubator, Oven, Water Bath, Microscope, Master Sizer, Zetasizer, and Vortex Mixer etc.
- Language** : Indonesia, English (Intermediate).
- Others** : Microsoft Office (Word, Excel, PowerPoint), Canva, Zotero, GraphPad Prism.