

IQBAL ZULQIFLI

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PROFESSIONAL SUMMARY

A graduate of the Pharmacy program at Singaperbangsa University in Karawang and a recipient of the Pertamina Foundation's Sobat Bumi scholarship, with experience in research, the development of pharmaceutical formulations, and the pharmaceutical industry gained through internship and research programs. Has experience in the development of solid dosage forms in the pharmaceutical industry, including formulation processes, optimization, and product evaluation. Experienced as a Laboratory Assistant in Pharmaceutical Technology and Formulation Technology for liquid and semisolid dosage forms, including the formulation and manufacture of cosmetics. Additionally, experienced as a Research Assistant in the field of Pharmaceutical Technology, involved in formulation development, dosage form evaluation, experimental research, and product development. Completed a final thesis in Pharmaceutical Technology with a focus on the development of pharmaceutical formulations. Interested in roles in Research and Development (R&D), Quality Control (QC), and Quality Assurance (QA). Active in organizations, research, competitions, and scientific publications, with strong analytical, communication, teamwork, and problem-solving skills.

EDUCATION

Bachelor of Pharmacy, Faculty of Health Sciences, Universitas Singaperbangsa Karawang

Jan. 2022 - Aug. 2026

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

Pharmacy, Bhakti Kencana, Vocational High School of Health Sciences

2019 - 2022

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

PROFESSIONAL EXPERIENCE

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

Sep. 2025 - Jul. 2026

Laboratories in Pharmaceutics, Solid Dosage Form Technology, Pharmaceutical Chemistry, Pharmaceutical Microbiology, Organic Chemistry and Basic Biology, 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.
- Conducting literature reviews, formulation design, microparticle preparation, and formulation process optimization to improve encapsulation efficiency and drug release characteristics.
- Performing characterization and evaluation of microparticles, including encapsulation efficiency, particle size, size distribution, morphology, and drug release profile using HPLC.
- Process, analyze, and interpret research data using appropriate statistical methods.
- Prepare research reports, document research results, and contribute to the writing of scientific publications.

Research Staff - Student Creativity Program in Exact Sciences Research (PKM-RE), Ministry of Higher Education, Science, and Technology

Apr. 2024 - Aug. 2024

Laboratories of Pharmaceutics, Solid Dosage Form Technology, Pharmaceutical Chemistry, Natural Products, and Pharmaceutical Microbiology, 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 extracts, extraction, phytochemical screening, and standardization of specific and nonspecific parameters of crude extracts and duckweed leaf extracts as active ingredients in the formulation.
- Develop Dissolving Microneedle (DMN) formulations, conduct quality evaluations of the preparations, characterize the microneedles, perform irritation tests, and optimize the formulations.
- Conduct in vitro testing of anti-acne activity, 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 the 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.
- Conduct the formulation, preparation, and evaluation of various pharmaceutical dosage forms, including elixirs, syrups, suspensions, drops, emulsions, creams, gels, ointments, and suppositories.

- Formulate and manufacture various cosmetic products, including lipstick, lip balm, serum, milk cleanser, lotion, and scrub.
- Conducting quality evaluations of formulations according to established parameters, such as organoleptic properties, pH, homogeneity, viscosity, spreadability, displaced volume, specific gravity, melting time, leakage test, disintegration time test, hedonic test, emulsion type, cream type, sedimentation volume test, and stability test according to the type of formulation.

Laboratory Assistant - Pharmaceutical Sciences

Jan. 2023 - Jul. 2023

Laboratories of Pharmaceutics, Universitas Singaperbangsa Karawang

- Performing basic formulation and the preparation of various pharmaceutical dosage forms, including powders, capsules, tablets, elixirs, syrups, suspensions, emulsions, creams, gels, and ointments.
- Conducting quality evaluations of pharmaceutical preparations according to established parameters
- Providing technical guidance to students during laboratory sessions, as well as documenting laboratory activities, managing chemicals, and maintaining laboratory cleanliness and readiness.

Pharmacy Internship - Pharmaceutical Industry

Jun. 2025

Lembaga Farmasi Angkatan Laut Drs. Mochamad Kamal, Central Jakarta

- Conducted a project to formulate a solid effervescent vitamin C tablet using a hybrid method combining dry and wet granulation, which included the granule preparation 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 preparations, 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 – Oct. 2022

UPTD Puskesmas Cisarupan, Garut

- Compound, prepare, and calculate doses of pharmaceutical preparations in accordance with pharmaceutical service standards.
- Participate in pharmaceutical logistics management, 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

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

Cara Pembuatan Kosmetik yang Baik (CPKB) dan Cara Pembuatan Obat yang Baik (CPOB)

Jul, 2026

PT. Teman Group Indonesia

Pharmaceutical Technician and Pharmacist Assistant

Mar. 2022

Badan Nasional Sertifikasi Profesi (BNSP)

- Competent in pharmaceutical services, compounding pharmaceutical preparations, managing pharmaceutical logistics, and implementing pharmaceutical service standards.

AWARDS

Sobat Bumi – Pertamina Foundation Scholarship Recipients

2022-2024

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

1 st Place – Pharmaceutical Dosage Form Development Competition

May. 2025

Pekan Ilmiah Farmasi Indonesia (Fakultas Farmasi Universitas Bhakti Kencana)

5 Besar – Lomba Esai Ilmiah Nasional

Dec. 2025

Fakultas Farmasi Universitas Ahmad Dahlan

Optimization of Polylactic Acid Patch Microneedles 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 Skill Event (Februari 2025)

Feb, 2025

Clinical Pharmacy Skill Event (Faculty of Pharmacy, Airlangga University)

Theme: *Oncological Human Body Disease*

ORGANIZATION

Coordinator of Sobat Bumi Karawang

2023 - 2024

- Leads a community-based organization focused on environmental conservation, renewable energy development, and community empowerment.
- Designs, coordinates, and implements environmental education programs, reforestation initiatives, and campaigns to reduce plastic waste.
- Initiates programs for renewable energy utilization and community empowerment through green skills training and entrepreneurship based on local potential.
- Building collaborations with various stakeholders and managing outreach activities through digital media and community engagement to raise public awareness about the energy transition and environmental conservation.

Staff, Department of Communication and Information

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

2023

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

PROJECT EXPERIENCE AND VOLUNTEER WORK

Formulator & Community Educator

Jun. 2026

- Educational Program on Chamomile Gummies as an Introduction to Natural-Ingredient-Based Nutraceuticals for Residents of Warung Bambu Village, Karawang Regency
- Served 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

May, 2025

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

Moderator

May. 2024

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

Organizing Committee

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

Dec. 2023
Nov. - Dec. 2024
Mar. 2023
Jan. - Mar, 2024
Sep. - Dec. 2023
Oct. - Dec. 2024
Oct, 2023
Aug. 2023
2023
May 2024

SCIENTIFIC PUBLICATIONS

Pharmacogenomics β -Blockers in Cardiovascular Disease: Implications for Blood Pressure and Clinical Outcomes

Indonesian Journal of Pharmaceutical Science and Technology

Jul, 2026

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 Antihepatitis B

Jurnal Integrasi Kesehatan & Sains

Mei, 2026

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

Interaksi Obat-Herbal dengan Agen Hormon dalam Terapi Kanker: Tinjauan Mekanisme dan Implikasi Klinis

Journal of Pharmaceutical and Sciences

Oct, 2025

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

Therapeutic Efficacy of β -Hydroxybutyrate Supplementation on Weight Loss and Glycemic Control in Fasted Obese and Diabetic Mice, Tropical Journal of Natural Product Research

R. N. Balapadang, I. Zulqifli, D. S. Damara, O. N. Fadilah, H. Sudarjat

Drug Repurposing for Monkeypox: An Alternative Strategy for Emergency Response, Journal of Pharmaceutical Science and Clinical Research

L. Harbulcholizi, J. Malau, I. Alfandri, I. Zulqifli, R. Rahmasari

Article Review: Formulasi dan Evaluasi Microneedle Mukoadhesif Buccal dengan Berbagai Metode Pembuatan, Jurnal Ilmiah Respati

K. N. Aini, A. A. Zahra, L. M. Sabrina, V. S. Maulida, I. Zulqifli, M. Rafita, H. E. Putra

Formulation and Evaluation of Transdermal Dissolving Microneedle Loaded with Ethanol Extract of Cocor Bebek Leaves (*Kalanchoe pinnata*), Pharmacy & Pharmaceutical Sciences Journal

R. N. Balapadang, A. D. Sarie, S. Rosyidah, I. Zulqifli, M. N. Akifah, A. A. Zahra

Dec, 2025

Dec, 2025

Dec, 2025

Dec, 2024

RELATED SKILLS

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.

Bahasa

: • Bahasa Indonesia
• Bahasa Inggris (Intermediet); *Singaperbangsa English Proficiency Test Score*; 453

Lainnya

: Microsoft Office (Word, Excel, PowerPoint), Canva, Zotero, GraphPad Prism.