



MUHAMMAD DZIKRI FADHILLAH

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120 Anoa 2 Street, RT 02 / RW 08, Jayamukti District, Central Cikarang, Bekasi Regency, West Java, Indonesia
Chemistry Graduate from IPB University specializing in natural product chemistry and instrument analysis (HPLC & GC). Proven experience as an Ex-QC Intern at PT Kilang Pertamina Internasional, managing routine petrochemical testing, and as a Former Laboratory Assistant, supervising advanced research workflows and ensuring GLP compliance. Skilled in quality reporting, time management, and proactive problem-solving.

Education Level

Bogor Agricultural University - Bogor, Indonesia

Aug 2022 - Aug 2026

Bachelor of Chemistry, 3.27/4.00

- Undergraduate Thesis: Isolation and Structure Elucidation of Alkaloids from *Haliclona* sp. Sponge from Raja Ampat.
- Isolation and structural elucidation of marine sponge alkaloids using HPLC and NMR for maritime anti-biofouling and anti-biocorrosion agents

Work Experiences

PT Kilang Pertamina Internasional Revinery Unit VI Balongan - Balongan, Indramayu

Sep 2025 - Nov 2025

Quality Control Internship

As a Quality Control Intern in the Petrochemical Laboratory, I was directly involved in testing and analysis to ensure the quality of downstream products adhered to stringent specifications, primarily referencing international standards such as ASTM and HACH, while also complying with SNI (National Standards) and internal company requirements.

- Conducting routine testing of over 50+ petrochemical samples weekly using industry-standard laboratory instruments to ensure compliance with product specifications.
- Proficient in the operation, basic calibration, and data analysis of critical QC instruments such as HPLC and GC, in strict accordance with ASTM and HACH methodologies with 100% adherence to safety protocols.
- Analyzing and documenting up to 15+ testing results daily, and assisting in data interpretation to identify potential quality deviations based on established standards.
- Applying Analytical Chemistry knowledge to ensure product integrity and purity, contributing to the safety and operational efficiency of the refinery handling downstream products.

IPB University - Dramaga, Bogor

Jan 2026 - Jul 2026

Laboratory Assistant

Selected as a Teaching Assistant to supervise, mentor, and lead a group of 10 undergraduate students through an advanced natural product chemistry research workflow. The project focused on screening bioactivity from Indonesian marine soft coral samples for potential industrial and biomedical applications (e.g., anti-cancer, anti-inflammatory, anti-biofouling, and anti-biocorrosion agents)

- Actively guided and facilitated group discussions, managed laboratory operations, and ensured strict adherence to lab safety protocols for a team of 20 undergraduate students.
- Mentored students in multi-step chemical processes, including maceration, liquid-liquid partition, and initial extract profiling using Thin-Layer Chromatography (TLC) across 4 parallel research batches
- Directed the profiling and structural evaluation of complex extracts using high-end instruments, including HPLC and LC-HR-MS/MS, translating raw data into 3 major scientific insights for the final report

IPB University - Dramaga, Bogor

Aug 2023 - Dec 2024

Teaching Assistant

Served as a facilitator and mentor for first-year students in exploring the fundamentals and application of Islamic teachings. Led interactive discussion sessions to strengthen religious comprehension while actively fostering a religious and values-oriented campus environment.

Organisational Experience

Pengurus Harian Kajian Al-Hurriyyah - Dramaga, Bogor

Nov 2022 - Nov 2023

Media and Publication Staff

Actively contributed to the creative media team, focusing on the execution of graphic design and visual content production (posters, short videos, infographics) for event promotion and regular publications. Successfully supported increased audience engagement through compelling and informative content.

Pengurus Harian Kajian Al-Hurriyyah - Dramaga, Bogor

Nov 2023 - Nov 2024

Head of Media and Publication

Directed and coordinated the creative media team (5-7 staff) to manage all visual and publication requirements. Oversaw digital branding

strategies, elevated content quality, and ensured consistent brand identity across all social media platforms.

Pengurus Harian Kajian Al-Hurriyyah - Dramaga, Bogor

Nov 2024 - Nov 2025

President of Institution

Spearheaded and managed overall organizational operations, overseeing 4 divisions and 30 members. Responsible for defining the vision, mission, and strategic direction. Successfully ensured the continuity of key programs, fostered strong internal and external stakeholder relationships, and served as the primary representative of the organization.

Skills, Achievements & Other Experience

- **Laboratoty and Tech Skills:** High-Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), Thin-Layer Chromatography (TLC), LC-HR-MS/MS, Quality Control, Analytical Chemistry, ASTM & HACH Methodologies.
- **Soft Skills:** Teamwork & Collaboration, Problem Solving, Analytical Thinking, Communication, Time Management.