



JASMINE EL KEMALA RAHIMA

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I am a freshgraduate chemistry student at Brawijaya University, with particular interest in analytical chemistry and organic chemistry of bioactive compound. I gained laboratory experiences during my studies and my internship at BRIN and also did a project with BRIN researches when I was doing my research thesis.

I always seeking opportunities, knowledge, and experiences to improve myself to gain and share an understanding of knowledge. I put a lot of effort into everything I do, including my studying and organizing.

Having such experience in Project Management and Individual Development. I have hands-on experiences with advanced laboratory instruments including spectrophotometry, chromatography, GC-MS, UV-VIS, FT-IR, and NMR which has honed my analytical and technical skills. Looking for professional career opportunities that outlining steps to progress into more advances roles.

EDUCATION

Brawijaya University - Malang

Freshgraduate Chemistry

August 2021 – July 2025

□ IPK: 3.50/4.00 (157 credits)

INTERNSHIP

Badan Riset dan Inovasi Nasional (BRIN) – Serpong

February 2024 – July 2024

Pusat Riset Bahan Baku Obat dan Obat Tradisional (PR-BBOOT)

Research Student

- Extraction of various marine sponges from the Halmahera Sea using maceration method
- Conducted phytochemical screening on the extracts
- Conducted antioxidant activity test using the DPPH and ABTS method
- Conducted toxicity activity test using BSLT method, and determined antibacterial activity extract sponge with diffusion test for *E.coli*, *P.aeruginosa*, *B.subtilis* & *S.aureus*

Badan Riset dan Inovasi Nasional (BRIN) – Serpong

February 2025 – July 2025

Pusat Riset Bahan Baku Obat dan Obat Tradisional (PR-BBOOT)

Research Student

- Isolation marine sponge *Xestopongia testudinaria* sp Halmahera Sea by gradient Vacuum Liquid Cromatography (VLC)
- Operated purification of subfraction *X.testudinaria* using normal phase column Sephadex LH-20 and preparative Thin Layer Cromatography (prep TLC)
- Conducted phytochemical screening on the extracts sponge that the methanol extract of *X. testudinaria* contain alkaloid, terpenoid, and saponin
- Conducted antioxidant test using the ABTS method, demonstrating that the methanol extract of *X. testudinaria* IC₅₀ extract was 55.14 ppm and fractions 1 to 9 had values of 672.17; 1123.80; 653.48; 407.88; 536.76; 319.77; 895.04; 951.66; and 1290.84 ppm.
- Conducted toxicity test by BSLT method with *Artemia salina* larvae resulting in mortality LC₅₀ sponge extract toxicity is 288,40 ppm and fractions 1 to 9 have values of 354.35; 199.53; 130.26; 73.60; 62.7; 375.46; 725.29; 741.66; and 807.64 ppm.
- Utilized GC-MS, FTIR, UV, and ¹H-NMR spectroscopy to identify and characterize isolation compounds, identifying dominant peaks terpenoid, fatty acid ester and hidrocarbon group

EXPERIENCES

Basic Chemistry Laboratory Assistant

August 2024 – December 2024

- Assist student in the determination of comercial acetic acid using the secondary standard solution by volumetric method
- Teached the use of chemical tools such as oven, analytical balance, determined the pH of a solution with various pH indicators and giving practicum exam question such as pretest

PROJECT

Bioethanol Production from Banana Peel and Molasses

Agustus 2024 – Desember 2024

- Conducted fermentation using *Saccharomyces cerevisiae*, followed by simple and fractional distillation to produce bioethanol
- Performed laboratory analyses: FTIR spectroscopy, density measurement (pycnometer), refractive index, flame test, acidity titration, and alcohol content determination.
- Assessed bioethanol quality based on SNI 3565-2009 standards, including ethanol concentration, acidity, physical characteristics, and compliance with required parameters.
- Prepared a scientific project report, produced a project video, and delivered a seminar presentation with live demonstration in front of examiners.

ORGANIZATIONAL EXPERIENCES

LPM basic FMIPA UB

Staff of Human Resources Development

February 2022- February 2023

- Write news for the LPM basic website and make it open for the public in social media
- Carried out the work program that has been determined
- Contact internal and external parties for events

COMMITTEE EXPERIENCES

P2MF FMIPA UB 2023

Staff of Competition Division

June 2022- March 2023

- Creating an event guidebook
- Selecting proposals PKM-MABA FMIPA UB more than 300 team
- Designing assessment formats and determining contingents

Kompetisi Menulis Opini Nasional LPM basic FMIPA UB

Executive Secretary and Treasurer

November 2022- January 2023

- Do administrative work and make an event proposal
- Obtained and managed competition finances
- Coordinated an event that attracted more than 50 participant

Company Visit HMK UB 2023

Staff of Public Relation Development

May 2023- August 2023

- Contact internal more than 30 participant
- Responsible for activities and public relations
- Contact invited guests to attend the event

Chemistry In Action HMK UB 2023

Staff of Public Relation Development

May 2023- October 2023

- Contact internal parties for event
- Responsible for searching, providing, and collaborating with media partners
- Responsible for activities and public relations

ACHIEVEMENT

Finalist LP2PKM – Riset Eksakta Brawijaya University 2022

SKILLS

- **Languages:** Indonesian, English
- **Technical Skills:** Microsoft Office, Quantitative and Qualitative Analysis (FTIR, AAS, GC-MS, UV-Vis, HPLC, NMR Spectrophotometry, Chromatography, Synthesis, Isolation, Titration, Extraction), Lab Techniques, Good Manufacturing Practice (GMP), Experimental design and methodology skill, Writing Skill, Computer Skill, Presentation, Project Planning, Canva
- **Softskills:** Public Speaking, Strategic Planning, Communication, Time Management, Teamwork, Problem Solving, Critical Thinking, Flexibility, Detail Oriented, Responsibility

CERTIFICATION

TOEFL ITP 453

IT TEST 84.44

Cara Pembuatan Obat yang Baik (CPOB)