

MUHAMMAD ROHID AL HANIM

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Kabupaten Tangerang

Graduate of Chemical Industrial Technology, specializing in Biotechnology, Padjadjaran University with direct experience in Research and Development. Familiar with recombinant protein development, process optimization, and data- driven analysis in a laboratory environment. Supported by thesis research related to the expression of IgG Anti-HER2 antibodies (Trastuzumab) using Pichia pastoris. Possesses high accuracy, strong analytical skills, and is ready to contribute to product development in the pharmaceutical industry.

Education Level

Universitas Padjadjaran - Sumedang

Aug 2021 - Aug 2025

Diploma in Bachelor of Applied Science Chemical Industrial Technology, 3.70/4.00

- Thesis: Expression Of IgG ANTI- HER2 (Trastuzumab) In Pichia pastoris Hosts and Testing Of It's Interaction With Protein L Using A Lateral Flow Assay.
- Projects: Development and design of rapid tests for detecting pork in food, ANTI-HER2 for immunohistochemistry reagents (2 mg/mL), optimization of purification using affinity chromatography, and synthesis of RGD PEPTIDE (Arginine - Glycine - Aspartic Acid) for cosmetics.
- Teaching Assitance: Supervising 5 students in a recombinant protein production practicum, including experiment planning, implementation, and data analysis.

Work Experiences

Pusat Riset Bioteknologi dan Bioinformatika - Bandung

Feb 2024 - Aug 2024

Research and Development Intern

Molecular Biotechnology Research Institute

- Operating various biotechnology laboratory instruments, including PCR, concentrator plus, gel electrophoresis, electroporator, and other analytical equipment
- Successfully optimized cell transformation using two different treatments and obtained significant results
- Optimized recombinant protein production through five key parameters (media, phenotype, inducer concentration, and culture treatment) to improve process effectiveness.
- Achieved optimal recombinant protein production of up to 2 mg/mL, demonstrating productivity improvement.

Pusat Riset Bioteknologi dan Bioinformatika - Bandung

Aug 2023 - Sep 2023

Production Intern

Molecular Biotechnology Research Institute

- Production of VP2 antigen as a candidate vaccine for IBDV with a yield of 27 mg/mL.
- Helps optimize solution buffer and refolding protocols to increase efficiency by up to ~70% compared to previous ones.
- Purification of protein using ÄKTA™ chromatography with a yield of 10 mg/mL.

Organisational Experience

Ikatan Keluarga Mahasiswa Unpad Banyuwangi - Sumedang

Sep 2024 - Mar 2025

Chairman Of The Association

- Coordinated and supported collaborations with partner universities to plan and execute campus tour activities, strengthening inter institutional relationships and outreach programs.
- Executed outreach roadshow programs across 7 high schools in Banyuwangi by delivering presentations and engaging with school representatives to introduce educational programs.

Badan Eksekutif Mahasiswa Fakultas Matematika dan Ilmu Pengetahuan Alam - Sumedang

Apr 2023 - Jan 2024

Head of External Relations Department

- Supported and coordinated partnerships with 25+ external organizations, including media partners and educational institutions, to support communication and promotional activities.
- Planning and executing two large- scale comparative study programs involving 250+ participants in collaboration with 3 partner institutions.
- Coordinated an industrial visit at PT Sido Muncul Tbk involving more than 50 participants by liaising with company representatives and managing event logistics.
- Worked closely with alumni partners to support the execution of approximately 30 webinar sessions "Podcast Cinta Mipa" focused on career development and professional insights.

Head Of The Creative Economy Division

- Organized and facilitated an entrepreneurship program for 25+ participants, focusing on basic business planning, promotion, and sales execution.
- Supported sales activities that resulted in the sale of 120+ merchandise units through basic marketing and promotional initiatives.
- Developed and published a monthly entrepreneurship newsletter to support communication and engagement within the student community.
- Recognized as a Finalist of the 2023 MIPA Award in the "Best Entrepreneurship Field" category for contributions to entrepreneurship initiatives.

Volunteer Pekan Ilmiah Mahasiswa Nasional 36 (PIMNAS) 2023 - Sumedang

Nov 2023 - Dec 2023

Liaison Officer

- Supported coordination of 10+ participants across multiple activities over 5 days, handling communication and issue resolution with various stakeholders.

Skills, Achievements & Other Experience

- **Soft Skills:** Analytical Thinking, Attention to Detail, Problem Solving, Team Collaboration, Adaptability, and Scientific Curiosity
- **Laboratory and Analytical Skill :** Experimental Design, Data Analysis & Interpretation, Process Optimization, Root Cause Analysis, Documentation & Reporting, Basic Good Manufacturing Practice (GMP), Good Laboratory Practice (GLP)
- **Technical Skills :** Recombinant Protein Expression (*Pichia pastoris*), Protein Purification, SDS- PAGE & Protein Characterization, Bioprocess Workflow, Fermentation Process, Lateral Flow Assay Development, Aseptic Technique, Buffer Optimization & Protein Refolding, Basic Immunoassay, DNA extraction.
- **Tools and Software:** Microsoft Office (Excel, Word, PowerPoint), Google Workspace, Basic Data Analysis (RStudio) And Creative Tools (Canva, Capcut)
- **Certificate (2023):** Competency certificate with competency qualification: Verify/ Calibrate Measuring Instruments and Test Equipment issued by the Badan Nasional Sertifikasi Profesi in 2023
- **Certificate (2025):** Sales & Marketing Independent Private Consultant / IPC by Oki Intan
- **Webinars Attended:** Speakers at the event "Himatologika Berani Berkarir (HIRARKI) 2025"