

MUHAMAD RENZA FAJRIANSYAH

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Biochemistry graduate from IPB University with expertise in functional food research, quality assurance, quality control, regulatory licensing, and project management. Experienced in supervising end-to-end food production lines, managing food safety compliance (HACCP & CPPOB), handling business licensing (OSS, NIB, & KBLI), and conducting scientific research. Proven track record in research publications, analytical instrumentation, and cross-functional leadership. Seeking opportunities to drive quality assurance, regulatory affairs, R&D, or product development in the food and bioprocess industries.

WORK EXPERIENCE

PT. Sanfood Brilian Indonesia - Tangerang, Indonesia

QC/QA & Lead Project Management

Jun 2026 - Present

- Supervised comprehensive quality control processes across all manufacturing stages, including in-process quality control (IPQC), primary/secondary packaging, and finished goods testing to ensure adherence to product standards.
- Developed, updated, and managed critical food safety and compliance documentation, including HACCP (Hazard Analysis Critical Control Point) and CPPOB/GMP guidelines
- Managed business licensing documentation and administrative compliance processes through the OSS system, ensuring accurate registration of NIB and appropriate KBLI classifications for food processing operations.
- Led and coordinated cross-functional project execution, ensuring alignment between quality assurance protocols, production timelines, and regulatory standards.

SEAFast Center, IPB University – Bogor, Indonesia

Research Analyst

Jan 2026 – Jun 2026

- Conducted laboratory analyses to evaluate bioactive compounds and functional properties of the spiced rice formulation.
- Performed antioxidant activity, α -amylase inhibition, starch digestibility, and physicochemical analyses.
- Generated scientific data to support the development of functional food products targeting glycemic response management.

Education Laboratory Biochemistry Department, IPB University – Bogor, Indonesia

Laboratory Assistant

Aug 2023 – Aug 2025

- Assisted in 9 laboratory courses covering biochemistry, analytical chemistry, molecular biology, and related subjects.
- Mentored more than 120 students during laboratory practical sessions.
- Supported laboratory preparation, analytical instrumentation operation, and biochemical assays.

National Research and Innovation Agency (BRIN) – Bogor, Indonesia

Research Assistant

Jun 2022 – Aug 2022

- Identified and characterized 15 Ascomycetes fungal isolates using morphological observation and PCR-based molecular techniques.
- Performed DNA extraction, PCR amplification, and laboratory data documentation.
- Contributed to microbial biodiversity research and isolate characterization.

EDUCATION

IPB University, Bogor, Indonesia

Master of Biochemistry (GPA 3.95/4.00)

Aug 2024 – Aug 2025

- Research focus: Investigated the anti-obesity potential of a formulation containing tamarind leaves, guava leaves, basil leaves, and moringa leaves using an *in vivo* rat model.
- Evaluated bioactive compounds, antioxidant activity, and obesity-related biomarkers.

Bachelor of Biochemistry (GPA 3.56/4.00)

Aug 2020 – Aug 2024

- Research focus: Investigated anti-obesity and antioxidant activities of guava (*Psidium guajava*) leaf extract through *in vitro* biochemical assays.

RESEARCH ACHIEVEMENTS AND PUBLICATIONS

- **Funded PKM-RE Awardee (2023):** Research on tilapia scale collagen-based sunscreen spray formulation.
- **Bronze Medal (2023):** International Agriculture Technology Essay Competition (INTEGRATION).
- **Publication (2023):** Optimization of extraction solvent for total phenolic and antioxidant activity of guava leaves. *Jurnal Jamu Indonesia*, 8(3): 90–96.
- **Publication (2022):** Tematik Keterampilan Pengabdian Masyarakat. IPB Press. ISBN: 9786234674583.
- **Funded PPK Ormawa Awardee (2022):** Awardee with the title "Saluran Irigasi sebagai Tempat Budidaya Ikan dan Pengolahan Komoditas Jambu Kristal di Desa Bantarjaya sebagai Upaya Pemberdayaan Berbasis Teknososiopreneur"

TECHNICAL SKILLS

- **Laboratory & Analytical Techniques:** UV-Vis Spectrophotometry, HPLC, Microplate Reader, Centrifugation, Sonication, Sample Preparation, pH Measurement, and Analytical Balance.
- **Biochemical Assays:** Antioxidant Assays, Total Phenolic Content Analysis, Phytochemical Analysis, α -Amylase Inhibition Assay, Pancreatic Lipase Inhibition Assay, Functional Food Evaluation.
- **Molecular Biology & Microbiology:** DNA Extraction, PCR, Fungal Identification, Basic Microbiology Techniques.
- **Animal Research:** In Vivo Studies, Rat Handling, Laboratory Animal Management.
- **Data Analysis & Software:** SPSS, Microsoft Excel, Graphpad, Statistical Analysis, Scientific Data Interpretation.

CERTIFICATIONS

- Good Laboratory Practice (GLP), IPB University (2024)
- Basic Animal Training in Laboratory Animal Research, IPB University (2025)

LEADERSHIP EXPERIENCE

Head of Social and Environmental Department

Jan 2023 – Dec 2023

Student Executive Board of FMIPA, IPB University

- Led a team of 10 members and coordinated multiple projects and community engagement programs.
- Managed planning, execution, monitoring, and evaluation of departmental activities.

Head of Human Resource Development Division

Feb 2022 – Oct 2022

UBIQUINON, IPB University

- Organized committee coordination and performance evaluation activities.
- Facilitated effective communication and teamwork among committee members.

LANGUAGES

- Indonesian (Native)
- English (TOEFL ITP: 523)