

SYAHIDA ZULFA RAIHANI

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PROFESSIONAL SUMMARY

A biochemistry graduate from IPB University with direct hands-on experience in R&D in **genomics & proteomics lab**, and **immunology techniques** across multiple regulated research environments in Indonesia and Taiwan. Good with Good Laboratory Practice (GLP), SOP compliance, business case analysis. Passionate in advancing future healthcare by leveraging scientific skillset and stakeholder engagement in biotechnology and industry.

EDUCATION

IPB University — Bogor, West Java

Aug 2022 – Jul 2026

GPA: 3.48 / 4.0

Bachelor of Science in Biochemistry, with honours

- Undergraduate thesis: Metagenomic Exploration of Functional Genes in Compost Microbiome using Oxford Nanopore Technologies [under review of publication].
- Relevant coursework: Biochemical Analysis, Immunochemistry, Clinical Biochemistry, Metabolism, Medicine Biochemistry, Genetics and Molecular Biology, Industrial Biochemistry, Bionanotechnology, Microbial Biochemistry, Nucleic Acid and Protein Engineering, Biochemistry Toxicology Environment.

Kyoto University — Kyoto, Japan

January 2025

Non-Degree Winter Program, Graduate School of Agriculture

- Competitively selected as a funded delegation participant from IPB University Indonesia; gained international exposure to agricultural science and tea industry research.

SKILLS

Laboratory: Immunological assay, ELISA, Protein & Nucleic Acid Extraction and Purification, Micropipette Handling, Antibody Handling, Aseptic Technique, Gel Electrophoresis, PCR, Sequencing, Metagenomics, Protein Microarray, Protein & Plasma Assay, Microscopy, Spectroscopy, Cell Culture, Microbial Culture, Biosafety Management, ICH Good Clinical Practice Knowledge

Bioinformatics & Data Analysis: CAZyme Annotation, Phylogenetic Analysis, RStudio (basic), Scientific Writing & Documentation, Primer Design

Soft Skills: Research Skills, Communication, Detail-oriented, Problem-solving, Teamwork, Adaptability, Project Management, Quality Management Foundations, Negotiation, Analytical skills

Tools & Software: Microsoft Office (Word, Excel, PowerPoint), Google Workspace, GenePix Pro

Languages: English (Advanced) taken 2024 TOEFL ITP 560, Indonesian (Native) UKBI 703

Publication:

1. Bioactive Compounds of Sungkai (*Peronema canescens* Jack) as Natural Antiallergen: In Silico Study. Biointerface Research in Applied Chemistry · Aug 15 2026 [doi.org/10.33263/BRIAC164.118]

Certifications:

- Good Clinical Practice – NIDA Clinical Trials Network | Sep 2026 · Skills: *Good Clinical Practice*
- Fundamentals of Flow Cytometry 1-10 – Bio-Rad Laboratories | Sep 2026 · Skills: *Flow Cytometry*
- ISO 17025:2017 - Makin Ahli | Jun 2026 · Skills: *ISO 17025, Laboratory Quality Standards*
- Preparation, Control, and Review of Laboratory Documents in Accordance to ISO 17025:2017 - AhliLaboratorium | Jun 2026 · Skills: *ISO 17025, Document Control*
- Quality Control in Pharmaceutical Industry - Makin Ahli | Sep 2025 · Skills: *QC, Pharmaceutical Standards*
- ISO 9001:2015 - Makin Ahli | Jun 2026 · Skills: *Quality System, ISO 9001*
- Quality Management Foundations - LinkedIn | Jun 2026 · Skills: *Quality Management*
- Fundamentals of Western Blotting 1-3 - Bio-Rad Laboratories | Jun 2025 · Skills: *Western Blot & Immunodetection*

PROFESSIONAL EXPERIENCE

Taiwan Experience Education Program (TEEP) — NCKU, Taiwan

Aug 2025 – Oct 2025

Proteomics Research Intern

Ministry of Education Scholarship Awardee (Taiwan, R.O.C.)

- Conducted antibody profiling IgG and IgM research using *E. coli* protein microarray for immune biomarker identification in urolithiasis patients at the Biosensing Lab, Dept. of Food Safety, Hygiene & Risk Management, National Cheng Kung University (NCKU) Taiwan. TEEP report can be accessed here: <https://ipb.link/teepreport26microarray>. Performed sample preparation, chip preparation, and protein assay validation for 150 *E. coli* microarray chips and 40+ plasma assay validations.

- Assisted in Caco-2 cell culture validation batch project after hits microarray.
- Passed all protein assay and training using spin column, SDS-PAGE, etc. Maintained accurate laboratory records, technical documentation, and data reports across R&D workflows in compliance with GLP standards.

Indonesian Oil Palm Research Institute (IOPRI) — Bogor, West Java

Jun 2024 – Aug 2024

Laboratory Intern

- Main project: anti-fungicidal testing using SNI standard dilution-neutralization method on *Aspergillus fumigatus* and *Candida albicans*.
- Assisted in the production of *Trichoderma* fungi product for productivity of palm oil. Performed daily microbial culturing, cell viability assay, chemical analysis using HPLC, and environmental assay with QA documentation and experimental records in accordance with institutional SOPs.

Indonesian Institute for Education Reform (IIER) — Online

Mar 2025

Liaison Officer and Partnerships Volunteer

- Secured partnerships with 25+ organizations including Overseas Indonesian Students' Association Alliance (PPI) Dunia, PPI Americas & Europe, and PPI Japan for event promotion.
- Co-organized two virtual workshops about study abroad with 500+ attendees, featuring high-profile speakers including LPDP Director Dwi Larso, most prestigious merit-based scholarship from Indonesia.

ACHIEVEMENTS & AWARDS

Star Energy Geothermal Scholarship Awardee

Aug 2025 – Jul 2026

- Merit scholarship from Indonesia's largest geothermal company, awarded for academic achievements and research.

3rd Place — Futurest Business Case Competition (288+ teams), Surabaya

Jun 2024

- Collaborated as a team to develop electrification solutions for Indonesia (ABB Energy Efficiency Movement case). Identified promising industries with untapped market potential for PT ABB in Indonesia by applying strategic frameworks.

Finalist — 7th IPB Business Festival (80+ teams)

Oct 2024

- Developed green financing solutions in collaboration with PT Adira Multi Finance Tbk. Conducted comprehensive analyses of industry trends, consumer adoption barriers, and company positioning within the EV financing market.

Finalist — PIMNAS (National Student Scientific Week), Padjadjaran University

Dec 2023

- Led a funded community service team (Rp 9,000,000 from Ministry of Education & IPB University) producing a disaster contingency plan, food bar product, and emergency tools module.

ORGANIZATION & LEADERSHIP

IPB Outstanding Student College Batch 6 — Teaching and Learning Project Officer

May 2024 – Jun 2025

- Recognized as best committee member; fostered 55 outstanding students to develop self-awareness, emotional intelligence, and lifelong learning skills student incubation from August 2024 until May 2025 under the Directorate of Student Affairs and Career Development, IPB University.
- Positioned as Forum Specialist, arranged discussion panels, and 5 annual learning modules featuring nationally recognized speakers such as Indra Dwi Prasetyo, Belinda Azzahra, and Shanina Rosa.

Ubiquinon 2024 National Competition — Head of Logistics

Apr 2024 – Sep 2024

- Directed logistics planning for a national-scale scientific writing competition with 75+ registered teams; negotiated and managed 10+ vendor contracts.

Community of Research and Education in Biochemistry — Staff of Research & Achievement

Dec 2023 – Dec 2024

- Supported academic development by disseminating competition, scholarship, and achievement information; trained 50+ biochemistry students in practical laboratory and scientific writing methods.

Forum for Scientific Studies (FORCES) IPB — Member

Nov 2022 – Nov 2023

- Strengthened scientific writing skills through structured peered-mentoring and project-based activities. Participated in Teenager in Action (TIA), a FORCES IPB knowledge transfer mentoring initiative for highschoolers.