

GHINA ATHYAH WAHID

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PROFESSIONAL SUMMARY

Microbiologist and Quality Assurance professional with 4+ years of experience spanning clinical diagnostics, molecular research, and QMS implementation. Skilled in PCR/qPCR, 16S rRNA sequencing, and ISO 17025/9001 compliance. Proven track record in managing CAPA, internal audits, and cross-functional team coordination in regulated laboratory environments.

TECHNICAL SKILLS

- Microbiological analysis: isolation, culture, GPT, TPC, AST
- Molecular biology: PCR, qPCR, electrophoresis
- DNA/RNA extraction & quantification (Nanodrop, Qubit)
- 16S rRNA sequencing & microbiome analysis
- Laboratory equipment calibration & maintenance
- Media preparation and quality control
- QMS implementation: ISO 17025, ISO 9001, CPAKB, CDAKB
- CAPA management & root cause analysis
- Internal & external audit facilitation
- Document control & Good Document Practice (GDP)
- Microsoft Office (Excel, Word, PowerPoint), IBM SPSS
- Bioinformatics: Epi2ME, UseGalaxy, MEGA, LIS

EDUCATION

IPB University

2023 – 2026

Master of Science – Biochemistry | Bogor, Indonesia

- Thesis: Prevalence of *Streptococcus pneumoniae* Colonization and Microbiota Diversity in the Nasopharynx of Children Under Five Years of Age

Pakuan University

2016 – 2020

Bachelor of Science – Biology | Bogor, Indonesia

- Thesis: Effectiveness of Ylang-Ylang (*Cananga odorata*) Essential Oil as an Antifungal Agent Against *Aspergillus flavus*
- GPA: 3.11

WORK EXPERIENCE

PT. Riset Nusantara Genetika

March 2025 – Present

QA Lab Specialist | Jakarta, Indonesia

- Led implementation and continuous improvement of QMS across 4 regulatory frameworks (ISO 17025, ISO 9001, CPAKB, CDAKB), maintaining 100% audit-readiness
- Facilitated 5+ internal and external audits with zero critical findings; closed all non-conformities within agreed timelines
- Managed end-to-end CAPA process, from root cause analysis to corrective action implementation and effectiveness review
- Coordinated cross-functional teams (QA, QC, Production, R&D) to align quality objectives with regulatory requirements
- Supervised calibration and maintenance of laboratory equipment, ensuring 100% instrument traceability
- Overhauled document control system, reducing documentation discrepancies and improving audit trail compliance
- Managed procurement and inventory of reagents and consumables, eliminating operational stockouts

Eijkman Research Center for Molecular Biology (PRBM Eijkman), BRIN March 2023 – January 2025

Research Assistant (Project) | Jakarta, Indonesia

- Processed 500+ clinical and research samples across multiple study projects with high accuracy and on-time delivery
- Contributed to 5 internationally published research papers on *Streptococcus pneumoniae* genomics, antibiotic resistance, and microbiome profiling
- Performed and optimized DNA/RNA extraction, PCR, qPCR, electrophoresis, bacterial culture, AST, and 16S rRNA sequencing workflows
- Led microbiome bioinformatics analysis using Epi2ME, UseGalaxy, and MEGA pipelines for research publications
- Trained field teams on standardized nasopharyngeal swab collection protocols, improving sample quality and compliance across multi-site studies
- Collaborated with multidisciplinary teams (researchers, clinicians, field staff) for PCV immunization impact studies integrating lab findings with epidemiological data
- Maintained complete sample traceability and laboratory records in compliance with GLP standards

Research Center for Cancer Virology & Pathobiology (PRVKP), RSCM–FK UI February 2022 – December 2022

Laboratory Analyst (Contract) | Jakarta, Indonesia

- Managed end-to-end workflow for 400+ referral diagnostic samples from FKUI and affiliated hospitals, from receipt to qPCR reporting
- Performed RNA/DNA extraction and qPCR for SARS-CoV-2 and hepatitis viruses with high reproducibility across all runs
- Ensured full compliance with biosafety (BSL-3) standards and maintained complete documentation for regulatory traceability

PT. Heksa Lingkar Diagnostiks

July 2021 – February 2022

Laboratory Administration (Contract) | Jakarta, Indonesia

- Managed LIS and NAR data entry for 1000+ daily samples, with data accuracy and integrity
- Monitored inventory and turnaround time (TAT), contributing to a reduction in sample processing delays
- Generated daily, weekly, and monthly performance reports to support operational decision-making
- Maintained patient data and documentation in full compliance with regulatory standards

RESEARCH PUBLICATIONS

- Unveiling the prevalence of macrolide resistance genes in *Streptococcus pneumoniae* isolates from Indonesia. *Microbes & Immunity*, 2026.
- Genomic analysis of virulence, antimicrobial resistance, and capsular polysaccharide locus of group B *Streptococcus* isolated from Indonesia. *The Microbe*, 2025.
- Pneumococcal Transposon Profiling Associated with Macrolide, Tetracycline, and Chloramphenicol Resistance from Carriage Isolates of Serotype 19F in Indonesia. *Infect Genet Evol*, 2024.
- A New Serotyping Method of *Streptococcus pneumoniae* Based on CRISPR/Cas9-Targeted Sequencing. *Journal of Molecular Diagnostics*, 2024.
- Whole Genome Sequencing Data of *Streptococcus pneumoniae* Isolated from Indonesian Population. *Data in Brief* (Elsevier), 2024.
- Efektivitas Antifungi Minyak Atsiri Kenanga (*Cananga odorata*) terhadap *Aspergillus flavus*. *Fitofarmaka: Jurnal Ilmiah Farmasi*, 2022.

TRAINING & CERTIFICATIONS

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| • (2025) ISO/IEC 17043:2023 – Uji Profisiensi & Uji Banding Antar Laboratorium | • (2025) Cara Distribusi Alat Kesehatan yang Baik (CDAKB) |
| • (2025) Cara Produksi Alat Kesehatan yang Baik (CPAKB) | • (2025) Good Document Practice (GDP) |
| | • (2025) Internal Audit – ISO 19011:2018 |

- (2025) ISO 9001:2015 Quality Management System Awareness
- (2025) Poster Presenter – 3rd ISBMB International Seminar
- (2025) Applied Biosystems Real-Time PCR QuantStudio 5 Calibration
- (2024) Biomedical Research in Indonesia: Athymic Nude Mouse
- (2022) Good Clinical Practice (GCP)
- (2022) Biosafety, Biosecurity & Good Laboratory Practice (GLP)
- (2021) Jaminan Kehalalan Produk (SJH)
- (2021) ISO 22000:2018, GMP, HACCP – Good Safety Management Series

LANGUAGES

Bahasa Indonesia (Native) **English** (Professional Working Proficiency)