

Ghina Athyah Wahid

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Experienced in microbiological and molecular laboratory analysis, with hands-on expertise in PCR and qPCR, sequencing, and quality assurance systems. Familiar with ISO-based standards and laboratory compliance. Proven ability to work independently and collaboratively, with strong attention to detail, documentation, and problem-solving.

Technical Skills:

- Microbiological analysis (isolation, culture, identification, Growth Promotion Test (GPT), Total Plate Count (TPC), and Antibiotic Susceptibility Testing (AST))
- 16S rRNA sequencing
- Laboratory equipment calibration and maintenance support
- Media preparation and quality control
- Molecular biology techniques (PCR, qPCR, electrophoresis)
- DNA/RNA extraction and quantification (Nanodrop, Qubit)

Computing Skills:

- Microsoft Office (Excel, Word, PowerPoint)
- IBM SPSS Statistics
- Epi2ME (ONT data analysis platform)
- Laboratory Information System (LIS)
- UseGalaxy
- MEGA

Education

IPB University (2023 - 2026)

Master of Biochemistry

- Thesis Title: 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 (B.Sc.) in Biology

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

Work Experiences

PT. Riset Nusantara Genetika

QA Lab Specialist (March 2025 – Present)

- Conduct quality control and assurance aligned with ISO 17025, ISO 9001, CPAKB, CDAKB standards
- Manage and maintain Quality Management System (QMS)
- Assisted in equipment calibration, maintenance
- Calibration qPCR
- Monitor CAPA implementation and audit findings
- Coordinate internal and external audits
- Investigate customer complaints and develop corrective actions

Eijkman Research Center for Molecular Biology (PRBM Eijkman), BRIN

Research Assistant (March 2023 – January 2025)

- Performed DNA/RNA extraction from clinical and biological samples
- Conducted molecular analysis including PCR and gel electrophoresis
- Measured DNA concentration using NanoDrop spectrophotometry
- Performed bacterial isolation, culture, and identification
- Conducted antibiotic susceptibility testing (AST)
- Performed serotyping of *Streptococcus pneumoniae*
- Conducted 16S rRNA sequencing and microbiome analysis of nasopharyngeal samples
- Contributed to research on the impact of PCV immunization on nasopharyngeal microbiota composition and dynamics
- Provided training and field support for nasopharyngeal swab collection in community and hospital settings

Research Center for Cancer Virology and Pathobiology (PRVKP), RSCM–FK UI

Laboratory Analyst (February – December 2022)

- Performed RNA and DNA extraction from clinical samples, including SARS-CoV-2 and hepatitis viruses
- Conducted qPCR analysis for infectious disease detection and diagnosis
- Handled clinical specimens following biosafety and laboratory protocols
- Maintained laboratory documentation and supported data reporting

PT. Heksa Lingkar Diagnostiks

Laboratory Administration (July 2021 - February 2022)

- Prepared samples and assisted laboratory testing
- Managed LIS and NAR data entry
- Monitored inventory and turnaround time (TAT)
- Generated daily, weekly, and monthly reports
- Handled patient information and documentation

Research and Scientific Projects

- 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

- (2025) Pelatihan Uji Profisiensi dan Uji Banding Antar Laboratorium Berdasarkan ISO/IEC 17043:2023 dan SNI ISO 13528 : 2022
 - (2025) Pelatihan Cara Produksi Alat Kesehatan yang Baik (CPAKB)
 - (2025) Pelatihan Cara Distribusi Alat Kesehatan yang Baik (CDAKB)
 - (2025) Pelatihan Good Document Practice (GDP)
 - (2025) Pelatihan Internal Audit ISO 19011:2018
 - (2025) Pelatihan dan Hands-on Applied Biosystems Real-Time PCR QuantaStudio 5 Calibration Training
 - (2025) Pelatihan ISO 9001:2015 Awareness Training – Quality Management System
 - (2025) Poster Presenter - The 3rd ISBMB International Seminar in Conjunction with 28th ISBMB National Seminar
 - (2024) Training Biomedical Research in Indonesia: The Potential of Athymic Nude Mouse
 - (2022) Good Critical Practice (GCP)
 - (2022) Training Biosafety, Biosecurity, and Good Laboratory Practice (GLP)
 - (2021) Webinar Jaminan Keahlian Produk (SJH)
 - (2021) Pelatihan (Good Safety Management Series) ISO 22000:2018, GMP, HACCP
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