

Selvi N. Shahab

CLINICAL MICROBIOLOGIST

A clinical microbiologist and PhD candidate with a strong background in bacterial genomics and antimicrobial resistance, currently serving as the head of a genomics laboratory. Equipped with hands-on experience in routine next-generation sequencing for human and pathogen applications, genomic data interpretation and the integration of the sequencing results into clinical diagnostics, outbreak investigations and public health surveillance, with a strong commitment to advancing infectious disease diagnostics and genomic services.

KEY SKILLS

- Clinical microbiology and infectious disease diagnostics
- Genomic data analysis and interpretation
- Laboratory quality management and standardization

LANGUAGES Indonesian (*Native*), English (*C1/Advanced*)

EDUCATION

Department of Medical Microbiology and Infectious Diseases, Erasmus Medical Centrum, Rotterdam — *PhD*

Jun 2020 – PRESENT

Focus on antimicrobial-resistant bacteria: developing surveillance method in detecting carbapenem-resistant *Pseudomonas aeruginosa*

Clinical Microbiology Specialist Program, Faculty of Medicine, Universitas Indonesia — *Sp.MK*

Feb 2019 - Aug 2022

Medical Doctor, Faculty of Medicine, Universitas Indonesia – *dr.*

Sep 2011 - Nov 2016

EXPERIENCE

Dr. Cipto Mangunkusumo Hospital, Jakarta

— *Coordinator of Translational Research, Genomic and Biomedical Initiative*

Aug 2022 – Apr 2024

— *Head of Genomic Laboratory (Clinical Research Unit)*

Apr 2024 – PRESENT

Leading a hospital-based genomics laboratory with a broad research scope, managing lab operations, genomic workflows, and cross-disciplinary research projects, developing genomic methods for research, supervising the team, establishing a hospital-based biobank, supporting precision medicine initiatives.

Faculty of Medicine Universitas Indonesia - Dr. Cipto Mangunkusumo Hospital, Jakarta

— *Clinical Microbiologist*

Jun 2023 – PRESENT

Handling infectious diseases and surveillance samples from collection until lab results interpretation, assisting rational antimicrobial selection, handling patients with infections in collaboration with other departments, participating in infection prevention and control and antimicrobial stewardship programs, supervising residents and medical students

Aisyiah Bojonegoro Hospital, East Java

— *General Practitioner*

Feb 2017 - Feb 2018



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LATEST PUBLICATIONS

Dietary intervention for systemic lupus erythematosus patients based on HLA-DQ2 and DQ8 genotyping (DISH): a protocol for a randomised controlled study

Lupus Sci Med, 2025

doi: [10.1136/lupus-2025-001833](https://doi.org/10.1136/lupus-2025-001833)

Pathogenic HNF1A variant in an Indonesian family: atypical management of MODY3 guided by patient comorbidity

AAACE Endocrinology and Diabetes, 2025

doi: [10.1016/j.aed.2025.10.006](https://doi.org/10.1016/j.aed.2025.10.006)

Sources and transmission routes of carbapenem-resistant *Pseudomonas aeruginosa*: study design and methodology of the SAMPAN Study

Antibiotics, 2025

doi: [10.3390/antibiotics14010094](https://doi.org/10.3390/antibiotics14010094)

Saccharibacteria (TM7) in saliva and subgingival microbiome as a predictor for gingivitis in individuals with type2 diabetes evaluated by qPCR

Front Dent Med, 2025

doi: [10.3389/fdmed.2025.1550936](https://doi.org/10.3389/fdmed.2025.1550936)

Detection methods for carbapenem-resistant *Pseudomonas aeruginosa* in surface water and wastewater

Sci Total Environ, 2025

doi: [10.1016/j.scitotenv.2024.178086](https://doi.org/10.1016/j.scitotenv.2024.178086)

In search of the best method to detect carriage of carbapenem-resistant *Pseudomonas aeruginosa* in humans: a systematic review

Ann Clin Microbiol Antimicrob, 2024

doi: [10.1186/s12941-024-00707-1](https://doi.org/10.1186/s12941-024-00707-1)

Multidrug-Resistant Bacteria Colonization in Patients Admitted to Dr. Cipto Mangunkusumo Hospital Jakarta, Indonesia

Acta Med Indones, 2024

PMID: [39010776](https://pubmed.ncbi.nlm.nih.gov/39010776/)

Ceftolozane/Tazobactam In-Vitro Activity against Clinical Isolates from Complicated Intra-Abdominal Infection Patients in Three Indonesian Referral Hospitals

Antibiotics, 2023

doi: [10.3390/antibiotics12010052](https://doi.org/10.3390/antibiotics12010052)

Outbreak investigations after identifying carbapenem-resistant *Pseudomonas aeruginosa*: a systematic review

Antimicrob Resist Infect Control, 2023

doi: [10.1186/s13756-023-01223-1](https://doi.org/10.1186/s13756-023-01223-1)