

# Arif Hidayat

+6285921693322 | contact.ahidayat@gmail.com | <https://www.linkedin.com/in/arifhidayat7> | Jakarta, Indonesia

## SUMMARY PROFILE

I am a highly motivated and academically accomplished biologist with a focus on microbiology. I graduated with honors from Jenderal Soedirman University, holding a GPA of 3.87/4.00. In my professional journey, I have excelled as a Microbiology Expert at Astra Agro Lestari, where my research on microbes utilization contributed to a 25% emission reduction coming from fertilizer. I also reduced fertilizer costs by 25 – 50% through the application of biofertilizer which was developed by our team. Previously, I served as a Laboratory Analyst at Bumame Farmasi, demonstrating proficiency in RNA extraction and qPCR, with a 98% accuracy rate in SARS-CoV-2 detection for an average 5000 – 8000 samples per day. My skills encompass project management, R&D, microbiology, cell culture, and molecular biology, along with excellent communication and teamwork abilities. I have received training in various areas, including laboratory management, environmental studies, and food safety management.

## EDUCATION

### Jenderal Soedirman University – Purwokerto

August 2017 - September 2021

Majoring in Biology 3.87/4.00

- Cumlaude Honors
- Focusing in Microbiology

### Public Senior High School 1, Cisarua Bandung Barat

June 2014 - July 2017

Concentrating in Science

## WORK EXPERIENCES

### Astra Agro Lestari – Kotawaringin Barat, Central Kalimantan

Microbiology Junior Expert

April 2022 – Present

- Conducting extensive research on the application of microbes as soil fertilizers for nursery and mature palm oil plants, leading to a 25% reduction of fertilizer cost and 18k saving emission.
- Demonstrating proficiency in planning, evaluating, and controlling the research program, which contributed to biofertilizer product release (ASTEMIC) with distribution number 03.01.2023.1086.
- Innovating sustainable agriculture practices through new herbicide complement and bio fungicides explorations from actinomycetes secondary metabolites.
- Designing new QC method for detecting microbes quantity and purity in our biofertilizer product, resulted in 80% time efficient process and 90% precision of quality control analysis.
- Working with targeted 16s metagenomic NGS data (Illumina platform) to unveil the effect of soil applied biofertilizer microorganism community.

### Bumame Farmasi - Yogyakarta

Laboratory Analyst

November 2021 - April 2022

- Efficiently organizing and administering PCR samples collected prior to processing, managed a database of over 8000 samples.
- Extracting RNA from VTM samples using the Tianlong Libex Nucleic Acid Extractor, resulting in a streamlined sample preparation process.
- Successfully detecting and analyzing N-Gene and RdRP gene sequences of SARS-CoV-2 using the CareGene Wellsbio RT-PCR kit, achieving a 98% accuracy rate in identifying positive cases.

- Maintaining laboratory aseptic conditions, ensuring a contamination-free environment for sensitive molecular biology procedures.
- Providing guidance and leadership to a team of laboratory analysts, managing both administrative responsibilities and overseeing laboratory processes and consumable inventory.

### **Biology Faculty, Jenderal Soedirman University – Banyumas, Purwokerto**

Laboratory Analyst

March 2019 - August 2021

- Preparing bacterial cultures, growth mediums, and essential tools and materials to ensure a well-equipped and efficient laboratory environment.
- Providing comprehensive instruction to students, imparting in-depth knowledge and hands-on experience during practical class sessions in the laboratory.
- Conducting rigorous assessments to evaluate students' performance and comprehension in their practical activities, offering valuable feedback to support their learning and skill development.

### **Virology and Cancer Pathobiology Research Centre, Medical Faculty of Universitas Indonesia – Cipto Mangunkusumo Hospital – Salemba, Jakarta**

Intern Staff

December 2019 - February 2020

- Conducting tissue culture, including primary tissue culture of colon cancer, and successfully isolated cancer stem cells from colon and prostate cancer cell lines.
- Isolating mutated DNA from cancer cells and employed genomic approaches to detect Escherichia coli pathogenic factors associated with cancer development.

### **SKILLS**

Soft Skills : Communication, Time Management, Adaptability, Teamwork, Problem Solving

Hard Skills : Project Management, R&D, Microbiology, Cell Culture, Molecular Biology, Microsoft, NGS

Language : Bahasa Indonesia, English, and Korean

### **TRAINING**

#### **2019**

- Training on Basic Technique and Management of Life Science Laboratory – Virology and Cancer Pathobiology Research Centre, Medical Faculty of Universitas Indonesia, Cipto Mangunkusumo Hospital

#### **2020**

- Food Safety, Food Defense, and Food Fraud Prevention Control (HACCP, TACCP, VACCP) Catalyst consulting.
- Implementing Food Safety Management System ISO 22000:2018 and Version 5.1 – Catalyst consulting

#### **2023**

- RNA-seq Analysis for Microbial Transcriptomics (Differentially Expressed Genes (DEGs) analysis) – INBIO Indonesia
- Metagenome 16s Analysis using QIIME2 – INBIO Indonesia

#### **2024**

- Metagenomic for Taxonomy Profiling: Tools & Approach for understanding NGS & WGS – INBIO Indonesia
- Statistic & Data Analysis for Palm Oil Industry – Indonesia National Research and Innovation Agency (BRIN)