

NOOR FADILAH

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Biology graduate with hands-on experience in molecular biology, microbiology, biological sample handling, laboratory documentation, and research. Experienced as a Teaching Assistant in Molecular Analysis Methods, with practical skills in DNA isolation, DNA quantification, PCR, agarose gel electrophoresis, DNA visualization, and sequence analysis using BLAST and MEGA. Gained laboratory experience through internships in a Viral Diarrhea Laboratory and Forensic Laboratory, involving the handling and preparation of fecal, urine, blood, and hair samples, laboratory testing, sample identification, documentation, and data recording. Familiar with laboratory SOPs, Good Laboratory Practice (GLP), biosafety, sample traceability, and laboratory workflow management. Possess research experience in environmental toxicology involving polystyrene nanoplastics and plant bioactive extracts, including experimental design, biological sample preparation, histological analysis, data processing, and scientific reporting. A highly organized, detail-oriented, and collaborative individual with strong analytical, laboratory, documentation, and scientific communication skills, committed to maintaining accuracy, data integrity, laboratory quality, and continuous learning in molecular analysis.

EDUCATION

Airlangga University

Bachelor of Science

Surabaya, East Java

August 2022-July 2026

Biology Major; Faculty of Science and Technology

IPK: 3.58/4.0

Relevant Coursework: Microbiology, Molecular Biology, Molecular Analysis Methods, Biochemistry, Genetics, Histology and Zoology.

PROFESSIONAL EXPERIENCES

Molecular Analysis Laboratory Teaching Assistant

Department Biology, Airlangga University

Assistant Lecturer

February-July 2026

- Assisted students in performing molecular biology techniques, including DNA extraction, DNA quantification, PCR, agarose gel electrophoresis, and DNA sequence analysis.
- Prepared samples, primers, buffers, reagents, and laboratory equipment prior to practical sessions according to established protocols.
- Guided students in interpreting PCR and electrophoresis results and conducting sequence analysis using BLAST and MEGA.
- Ensured proper laboratory practices, equipment handling, and compliance with SOP, GLP, and laboratory safety procedures.
- Assisted in documenting practical results and evaluating data accuracy and consistency.

LEMBAGA PENYAKIT TROPIS, UNIVERSITAS AIRLANGGA

July 2025

Laboratory Assistant

- Assisted in the collection, handling, labeling, preparation, and documentation of fecal specimens for infectious disease research.
- Handled and prepared more than 50 fecal specimens for the detection and research of Rotavirus, Norovirus, and Sapovirus, including sample identification, labeling, preparation, and documentation.
- Prepared laboratory reagents, materials, and equipment to support microbiological and molecular laboratory activities.
- Supported sample processing and laboratory testing in accordance with SOP, biosafety, and Good Laboratory Practice (GLP).
- Recorded and organized sample information and research data to maintain sample traceability and data integrity.
- Maintained laboratory cleanliness, equipment readiness, and proper handling of biological specimens.

LABORATORIUM FORENSIK, POLDA JATIM

October - December 2024

Laboratory Assistant

- Assisted in the handling and preparation of urine, blood, and hair specimens for forensic narcotics analysis.

- Supported sample receiving, registration, labeling, preparation, and documentation prior to laboratory examination.
- Assisted in laboratory analysis using Raman spectroscopy, GC-MS, and LC-QTOF-MS according to applicable testing procedures.
- Recorded and documented analytical results while maintaining sample identity, data integrity, and traceability.
- Followed laboratory SOP, GLP, safety procedures, and chain-of-custody principles during sample handling and examination.

LEMBAGA PENGAMBANGAN JURNAL, PUBLIKASI, DAN HAK KEKAYAAN INTELEKTUAL June - now **UNIVERSITAS AIRLANGGA**

Data Analyst Intern

- Performed data entry, verification, and management of scientific publications, patents, and intellectual property records.
- Assisted in SINTA account synchronization and publication data validation for faculty members.
- Analyzed SINTA publication data to support evaluation of university research performance and academic reputation.
- Organized research-related databases, documents, and administrative records accurately and systematically.
- Supported the dissemination of scientific publications through institutional social media to improve public awareness of faculty research.

UNDERGRADUATED RESEARCHER

- Conducted research on the effects of polystyrene nanoplastics and the protective effects of plant-derived bioactive compounds using an animal model.
- Performed biological tissue sample preparation and protein extraction from multiple organs for downstream biomarker analysis.
- Analyzed oxidative stress and inflammatory biomarkers, including SOD and TNF- α , using ELISA.
- Prepared samples, reagents, standards, and assay components and performed ELISA procedures according to established laboratory protocols.
- Processed and analyzed experimental data using Microsoft Excel and SPSS, while maintaining accurate laboratory documentation and data integrity.

TECHNICAL SKILLS

- **Molecular Biology** : DNA Isolation, PCR, Agarose Gel Electrophoresis, DNA Quantification, DNA Visualization, DNA Sequence Analysis
- **Microbiology & Laboratory** : Sample Preparation, Biological Sample Handling, Reagent Preparation, Laboratory Equipment Handling, Laboratory Documentation, Biosafety, SOP, GLP
- **Bioinformatics & Data Analysis** : BLAST, MEGA, SPSS, ImageJ, Microsoft Excel
- **Analytical Instruments** : GC-MS, LC-QTOF-MS, Raman Spectroscopy
- **Other** : Scientific Writing, Data Recording, Data Analysis, Research Documentation