

AQILAH KHAIRUNNISA

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OBJECTIVE

Results-driven Biology graduate with hands-on experience in Research and Development and Quality Management. Skilled in GLP, microbiological assays, titration, and basic chromatographic techniques to support product and process development. Meticulous, analytical, and solution-oriented, with strong communication skills and proven ability to deliver accurate results in fast-paced laboratory and industrial settings.

RELEVANT LABORATORY EXPERIENCE

Sepuluh Nopember Institute of Technology (ITS) | Surabaya, East Java Nov 2023 - May 2024

Undergraduate Researcher

- Conducted independent research evaluating the effect of PEA on wound healing in mouse skin tissue, simulating real-world preclinical research design
- Performed tissue sample preparation using histological techniques aligned with diagnostic workflows
- Analyzed cellular regeneration and inflammation using light microscopy, emphasizing critical thinking in biological data interpretation
- Maintained structured and compliant laboratory documentation, adhering to safety and ethical guidelines
- Developed foundational knowledge of molecular mechanisms in tissue repair, building scientific curiosity toward molecular diagnostics
- Presented findings in a thesis defense, demonstrating proficiency in technical reporting and scientific communication

Sepuluh Nopember Institute of Technology (ITS) | Surabaya, East Java Aug 2022 - Dec 2022

Undergraduate Laboratory Assistant

- Supported laboratory classes for 30+ students, reinforcing core microbiological skills such as culturing, aseptic technique, and reagent preparation
- Prepared culture media and handled live microbial samples, introducing strict adherence to Biosafety Level 2 (BSL-2) practices
- Assisted students in Gram staining and microscopic evaluation, sharpening ability to explain procedures and troubleshoot in real-time
- Practiced meticulous inventory management and ensured smooth lab operations across 10+ practical modules, reflecting organizational efficiency
- Cultivated early exposure to experimental setup and workflow planning foundational to working in fast-paced research labs

PT. Panca Mitra Multiperdana | Situbondo, East Java

June 2023 - July 2023

Quality Control of Microbiology Intern

- Conducted microbiological analysis for *E. coli* detection on 300 samples of raw, breaded, and cooked shrimp, identifying and mitigating 10 instances of contamination by applying precise testing methods and maintaining high standards of accuracy to ensure compliance with safety standards.
- Sterilized tools and materials and prepared *E. coli* media (EMBA) for 300 tests, reducing contamination risk by 25% through effective sterilization techniques and efficient media preparation practices.
- Assisted in the implementation of HACCP plans, identifying and controlling food safety hazards.
- Assisted in improving operational processes, contributing to reduced production errors and higher product quality, implementing strategies to minimize risks in food production.

PT. Panasonic Global Life Solutions Manufacturing | Jombang, East Java Sept 2022 - Feb 2023

Research/Quality Assurance Intern

- Monitored and recorded the body height and weight of 50+ chickens, providing detailed growth data that led to a 10% improvement in tracking development patterns by implementing consistent measurement techniques.
- Tracked and analyzed behavioral patterns for 50+ chickens under varying light conditions, resulting in a 15% increase in data accuracy by maintaining structured observation schedules.

- Collected and analyzed blood and feces samples from chickens exposed to various lamp treatments to assess protein and parasite levels, enhancing understanding of the impact of light color on poultry health by 20%.
- Participated in internal audits of production and processing lines to verify adherence to food safety and quality policies.
- Led parasite management, implementing strategies to minimize risks in poultry production by monitoring and controlling animal health and preventing parasitic infestations.

Tugu Ibu Hospital | Depok, West Java

July 2019 - August 2019

Medical Laboratory Intern

- Shadowed and assisted professionals across hematology, clinical chemistry, and microbiology units, gaining broad insight into diagnostic lab operations
- Carried out sample preparation, labeling, centrifugation, and staining under supervision, supporting 100+ patient cases
- Contributed to data recording and verification of lab results, building discipline in documentation and attention to detail
- Practiced specimen handling and infection control procedures, forming a strong foundation in clinical safety compliance
- Gained working familiarity with lab information systems, diagnostics workflows, and quality-focused reporting

EDUCATION

Sepuluh Nopember Institute of Technology (ITS) | Surabaya, East Java

Sept 2020 - Sept 2024

Bachelor of Biology Science

- **Cumulative GPA:** 3.61/4.00
- **Honours Project:** Healing Skin Wounds using Phenylethylamine (PEA) Compounds (As final project)
- **Relevant Coursework:** Basic Biology, Biosafety, Chemistry, Microbiology, Biochemistry, Biotechnology, Cell Biology, Molecular Biology, Animal Physiology, Histology, Genetics, Environmental Microbiology, Fermentation, Food Microbiology, Food Chemistry, and Research Methodology and Statistics.

Medical Analyst Puskesmas Vocational High School | East Jakarta

July 2017- May 2020

- **Relevant Coursework:** Biology, Chemistry, Biosafety, Microbiology, Biochemistry, Biotechnology, Parasitology, Hematology, Anatomy Physiology, Histology, Molecular Biology, Cell Biology, Evolution, Genetics, Basics of Lab Management, Clinical Chemistry, Microbial systematics, and Immunology.

ADDITIONAL INFORMATION

- **Language:** English (Proficient), Indonesian (Native)
- **Certification:** QA and QC Training – (Sepuluh Nopember Institute of Technology, Nov 2024]
- **Software:** R, MEGA, SPSS, and Microsoft office
- **Relevant Skill:**
 - Familiar with laboratory workflows including sample preparation, tissue sectioning, and staining techniques
 - Proficient in basic laboratory procedures such as pipetting, centrifugation, and microscopic evaluation
 - Experienced with histological and anatomical pathology processes from academic research and hospital internship
 - Basic understanding of molecular biology techniques such as DNA/RNA extraction, PCR, and gel electrophoresis
 - Competent in handling biological specimens with adherence to safety and quality protocols
 - Quick learner with strong scientific curiosity and willingness to adapt to new technologies
 - Detail-oriented and precise in laboratory work, documentation, and sample handling