

HANNA HAVIVA PICAULIMA

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Biomedical Science graduate with laboratory experience in molecular biology, microbiology, genomics, and applied biotechnology. Skilled in DNA/RNA extraction, PCR/qPCR, microbial culture, sequencing technologies, and laboratory data analysis through research and industry internship. Passionate about laboratory-based careers in research, quality control, quality assurance, biotechnology, healthcare, food, cosmetic, and environmental industries, with a strong commitment to scientific excellence and continuous learning.

EDUCATION

July 2021 – July 2026	Calvin Institute of Technology – Jakarta, Indonesia <i>Bachelor of Science in Biomedical Science (GPA: 3.77/4.00)</i> ➤ Relevant Studies: Microbiology, Cell Biology, Genetics and Molecular Biology, Biotechnology, Omics Technologies, Bioinformatics, Bioprocess, Genetic Engineering, Human Anatomy and Physiology, Immunology, and Nutritional Science, Food Quality and Safety.
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PROFESSIONAL EXPERIENCE

June – August 2025	Laboratory Analyst Intern Genomik Solidaritas Indonesia (GSI) Lab ➤ Performed DNA and RNA extraction from more than 100 diverse biological samples, including human tissue, whole blood, plant material, filter paper, and bacterial isolates, ensuring sample quality for downstream molecular analyses. ➤ Conducted qPCR-based pathogen detection assays for shrimp, koi fish, and SARS-CoV-2 samples, contributing to diagnostic and research workflows. ➤ Performed 16S rRNA amplicon sequencing, transcriptomic profiling, DNA methylation analysis, and whole-genome sequencing using Oxford Nanopore Technology (ONT) platforms. ➤ Performed lifestyle genomic profiling using Illumina Infinium Microarray for SNP genotyping and variant detection. ➤ Conducted Non-Invasive Prenatal Testing (NIPT) and Pre-Implantation Genetic Testing for Aneuploidy (PGTA) using MGI DNBSEQ short-read sequencing technology.
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RESEARCH EXPERIENCE

December 2025 – Mei 2026	Undergraduate Thesis <i>Isolation and Identification of a Lake-Derived Putative Novel Fungus with Antimicrobial Potential</i> ➤ Isolated and cultured fungal strains from freshwater lake samples using aseptic microbiological techniques. ➤ Conducted antimicrobial screening against selected microorganisms to evaluate bioactive potential. ➤ Performed morphological characterization and molecular identification of fungal isolates. ➤ Analyzed experimental data and prepared a research manuscript in scientific article format. ➤ Developed laboratory documentation and research reports following scientific research standards.
October – December 2025	Review Article Project <i>Emerging Resistance Mechanisms to Last-Resort Antibiotics: A Crisis to Global Health</i> ➤ Conducted comprehensive literature review on antimicrobial resistance mechanisms against last-resort antibiotics. ➤ Evaluated recent findings from peer-reviewed scientific journals regarding genetic and molecular mechanisms of resistance. ➤ Synthesized scientific evidence into a structured review manuscript. ➤ Critically analyzed emerging challenges in antimicrobial stewardship and global public health. ➤ Strengthened scientific writing, literature appraisal, and evidence synthesis skills.

ACCOMPLISHMENT

December 2024	Silver Medalist and Best Bioinformatics Award of BIOS2024 <i>Bioinformatics & Synthetic Biology Competition 2024 (BIOS2024) organized by Synbio.id</i> ➤ Collaborated with a team of ten to create a research poster, video presentation, and website for the BIOS2024 competition, titled: "Computational Approach for Lung Cancer Drug Discovery: Multi-Target Inhibition Using Compounds from Indonesian Herbal Plants." ➤ Successfully secured a silver medal and received the Best Bioinformatics award for outstanding contributions and innovative approaches in bioinformatics.
April 2024	PKM-RE 2024 Awardee <i>National Research Proposal Competition issued by Ministry of Education Indonesia</i> ➤ Collaborated with a team of five to develop a research project titled: "Synthesis and Characterization of Hydroxyapatite Nanoparticles from Mackerel Fish Bones (<i>Rastrelliger kanagurta</i>) as Bone and Dental

- Implant Material using the Sol-Gel Method."
- Successfully secured funding from the Ministry of Education, Culture, Research, and Technology (Kemdikbudristek).

VOLUNTEER EXPERIENCE

January 2025 – Present	Student Relation Assistant (Student Employee Program) <i>Student Employee of Admission Assistant</i> ➤ Managed a database of prospective students leads, providing personalized follow-ups and support.
July 2024 – Present	Campus Ambassador <i>Member of Campus Ambassador</i> ➤ Promoted Calvin Institute of Technology to high school students through engaging presentations, interactive booths, and Q&A sessions. ➤ Represented the institution at various outreach events, fostering connections with prospective students and their families.
February 2024 – February 2025	HIMAPRODI Biomedical Science <i>President of HIMAPRODI Biomedical Science</i> ➤ Delegated tasks to team members to optimize team structure and improve operational efficiency. ➤ Planned and executed the annual HIMAPRODI work program, ensuring smooth execution across divisions. ➤ Served as a liaison between HIMAPRODI and BEM, successfully submitting work program proposals, accountability reports, and financial reports.
August 2024 – December 2024	Admission Assistant (Student Employee Program) <i>Student Employee of Admission Assistant at Calvin Institute of Technology</i> ➤ Managed a database of prospective students leads, providing personalized follow-ups and support. ➤ Conducted targeted outreach campaigns through mass communication to engage and follow up with prospective students effectively.
June – August 2023	Calvin Institute of Technology Student Orientation Leader (SOL) <i>Staff of Communication Division</i> ➤ Organized multiple activities to enhance the orientation experience for new students. ➤ Facilitated effective communication to deliver essential information to new students.

SKILLS

Laboratory Techniques & Quality Systems	Aseptic Techniques, Good Laboratory Practice (GLP), Sample Documentation, Microscopy, Pipetting, DNA/RNA Extraction, Gene Cloning, PCR, qPCR, Gel Electrophoresis, Microbial Cell Culture, Sequencing, Microarray, SNP Genotyping, NIPT Workflow.
Bioinformatics & Data Analysis	MEGA12, BioEdit, BLAST, Sequence Alignment, Phylogenetic Analysis
Software	Microsoft Excel, Microsoft Word, Microsoft PowerPoint
Language	Bahasa Indonesia (Native), English (Fluent)

REFERALLS

Academic Advisor	Edvan Arifsaputra Suherman, M.Si. Contact: edvan.suherman@calvin.ac.id
Academic Advisor	Dr. rer. nat. Lili Mesak Contact: lili.mesak@calvin.ac.id