



# AKSANA SADIK

Research Biologist

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| Visit Visa Expiry - **26 Feb 2026** | Availability - **Immediately**

## PROFILE

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Biotechnology postgraduate with experience in hospital-based, regulated environments. Skilled in documentation, quality compliance, hygiene standards, sample handling, and coordination with multidisciplinary teams. Adaptable, reliable, and seeking an opportunity to contribute to hospital operations, laboratory support, or administrative services while maintaining patient safety and institutional standards. Demonstrated ability to support research projects, maintain high-quality lab practices and available to join immediately.

## EDUCATION

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**Secured a Master of Science in Biotechnology** 2022 - 2024  
CMS College, Kottayam, affiliated to Mahatma Gandhi University

**Secured a Bachelor of Science in Botany and Biotechnology** 2019 - 2022  
A. J. College of Science and Technology, affiliated to Kerala University

## WORK EXPERIENCE

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**Research Biologist** October 2024 – August 2025  
NIMS Centre for Genomic Medicine- Diagnostics and Research,  
NIMS medicity

- Performed DNA and RNA isolation from human, plant, and bacterial samples; proficient in Agarose Gel Electrophoresis and SDS-PAGE.
- Skilled in accurate micropipetting and multiple PCR techniques, including RT-PCR, Tetra-primer ARMS PCR, Real-Time PCR, and TrueNAT PCR.
- Experienced in PBMC isolation, cancer cell culture, and 2D/3D cell culture workflows including seeding, passaging, viability assays, and migration studies.
- Processed human amniotic membrane: retrieval, handling, conditioned media preparation, protein estimation, MTT assay, DNA fragmentation, UV irradiation studies, colony formation assay, scratch assay, Trypan Blue counting, and H&E staining.
- Prepared reagents, performed protein dialysis, plant-oil extraction, biochemical assays, and conducted routine laboratory calculations.
- Supported Senior Research Fellows on ongoing molecular biology and microbiology projects.
- Gained strong understanding of molecular diagnostics for infectious diseases such as COVID-19 and tropical fevers.
- Acquired hands-on experience with microbiology techniques and diagnostic workflows for infectious disease detection.

**Microbiology Intern** July 2023 – June 2024  
Doctor John's Biotech Centre for Research and Development

- Proficient in isolation and identification of microorganisms and its pigment.
- Skilled in preparing and sterilizing culture media (nutrient agar, MacConkey, LB, etc.), streaking, plating, sub-culturing, and maintaining pure cultures.
- Conducted Gram staining, biochemical tests, and pathogen detection.
- Microbial culture handling, sterility testing, Biochemical & Analytical Testing (protein, pH, titration, BOD/COD), Nutrient Analysis (protein estimation, antioxidant assays), Natural Product Extraction (plant oils, pigments), Sensory Evaluation Basics for R&D roles.

## PROJECTS & RESEARCH

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**Research paper : “Evaluating the effect of human Amniotic Membrane (hAM) on the viability and migration of MCF-7 cell lines”**

- Evaluated the impact of human amniotic membrane on MCF-7 cell viability and migration using MTT and scratch assays for exploring applications in regenerative medicine.

**Thesis : “In Vitro and In Silico Analysis of Pharmacological Properties of *Chromobacterium violaceum*- derived Pigments”**

- Studied antimicrobial, antioxidant and other pharmacological properties of bacterial pigments using in vitro assays and in silico docking.

**Thesis : “DNA Isolation of Cassava Genotype and Establishment of Tissue culture in Cassava”**

- Performed DNA isolation of cassava genotypes and established in vitro tissue culture systems for plant regeneration.

## CERTIFICATIONS

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- Completed an online course with skill training of medical coding in 2023 at Avodha Edutech. Pvt. Ltd., Kerala, India. Gained knowledge regarding the detailing of medical terminologies, human physiology and anatomy along with its conversion to codes.
- Completed the workshop on 3D cell culture and tissue engineering organized by NIMS Centre for Genomic Medicine in collaboration with Polyskin Lifesciences Pvt. Ltd.
- Completed the training in Microbiology and Laboratory Techniques at Doctor John’s Research Laboratory of Biotech Centre for Research and Development in 2022.
- Participated and presented a research paper in an international conference on “Upcoming Trends of Stem cell Therapy in Pain Management” held in 2025 organized by NICHE, Kumaracoil, Dept. of Allied Health Sciences, and NIMS Centre for Genomic Medicine.

## CORE SKILLS

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- **Software Skills:** MS Word, MS Office, MS Excel, MS Powerpoint
- **Softskills:** Presentation skills, Problem solving and trouble shooting, Communication and social skills, Teamwork, Adaptability.
- **Laboratory Skills:** Media preparation, DNA / RNA isolation, PCR, Agarose Gel Electrophoresis, SDS-PAGE, PBMC, 2D and 3D cell culture, microbial culture management (Isolation, characterization and evaluation of microbial culture), In-vitro and In-vivo assays, Biochemical tests, accurate pipette handling, plant tissue culture.
- **Laboratory equipment handling:** such as Light and Fluorescent microscope, Biosafety cabinet, Centrifuge, Ultra centrifuge, Laminar Air Flow hood, Spectrophotometer, Thin Layer Chromatography (TLC), Ultrasonicator, Electrophoresis apparatus, PCR machine, UV Transilluminator etc.
- **Bioinformatics:** PyRx, Autodock, PubChem, Biovia Discovery Studio, PDB, SMILES, BLAST, FASTA, NCBI.