

KAKARA SNEHITHA

Hyderabad, India 500040 | +91 7288927059 | kakarasnehitha@gmail.com

SUMMARY

Dedicated and curious Microbiology and Molecular biology enthusiast with a strong foundation in molecular biology, biochemistry, microbiology, and genetic engineering. Seeking an entry-level position to apply my skills and knowledge into a dynamic industry role and to sustain in fast-paced industry environment.

EDUCATION

MSc: Biochemistry and Molecular Biology

Central University of Kerala – Kasargod | 04/2025

Relevant Coursework: Biomolecules, Bioanalytical techniques, Cell biology, Molecular physiology, Metabolism, Enzymology, Immunology, Molecular biology, Microbiology, Molecular cell biology, Genetic engineering, Clinical biochemistry, Advances in RNA biology.

GPA: CGPA secured – 8.25

Dissertation titled "Deciphering the Impact of SCFAs and its Precursors on the Growth and Virulence of *Acinetobacter baumannii*".

BSc: Biotechnology, Microbiology, Chemistry

St. Francis College for Women – Hyderabad | 05/2023

Relevant Coursework: Cell Biology, Genetics, Bacteriology, Microbiology, Molecular biology, Virology, Immunology, Industrial Microbiology, Plant Biotechnology, Quality Sustenance in industry, Physical, Organic, and Inorganic Chemistry.

Project title - "Invitro Regeneration, Phytochemical, and In-silico analysis of plant *Scoparia dulcis*"

GPA: CGPA secured - 9.25/10

Intermediate: Biology, Physics, and Chemistry

Sri Chaitanya Jr Kalasala – Hyderabad | 03/2020

GPA: Percentage secured - 94.9%

CBSE

Cal Public School – Hyderabad | 05/2018

GPA: Percentage secured - 85.8%

INTERNSHIPS

Intern

Central University of Kerala – Kasargod, India | 07/2024 to 08/2024

Gained hands-on experience with various laboratory equipment and molecular techniques through intensive training.

Successfully cloned 16S rRNA with high efficiency during my internship, demonstrating my proficiency in molecular biology techniques.

Performed molecular docking using AutoDock Vina version 1.5.7.

Skills acquired: 16S rRNA cloning, microbiology techniques, molecular biology techniques, laboratory sterility practices, and basic docking knowledge.

Summer Research Intern

Central University of Hyderabad – Hyderabad, India | 05/2022 to 06/2022

Project title: “Expression and Purification of VP2 vaccine antigen of IBDV (Infectious Bursal Disease Virus)”

Skills acquired: PCR, Agarose gel electrophoresis, SDS-PAGE, Western Blotting, Molecular cloning, Recombinant protein expression, Protein purification using Ni-NTA affinity chromatography.

SKILLS

Microbiology - Media preparation, Sterilization techniques, Staining, culturing, and isolation of microbes.

Molecular biology - Genomic DNA extraction, Plasmid isolation, PCR, Agarose gel electrophoresis, Gel extraction, Ligation, Restriction digestion, Transformation, SDS-PAGE, Western blotting and staining, Ni-NTA affinity chromatography.

Instruments - Autoclave, Hot air oven, Centrifuge, Laminar air flow cabinet, Inverted fluorescence microscope, Fluorescence emission scanning electron microscope, PCR, Gel doc.

CERTIFICATIONS

Participation in the National Seminar on "Drugs and Biologics: Discovery, Development and Clinical Evaluation", March 24 and 25, 2025 at Central University of Kerala, Periyar.

Participation in the Plenary Lecture Series on "Frontiers in Biological Sciences", February 27 and 28, 2025 at Central University of Kerala, Periyar.

First place in poster presentation competition, Inter College Fest organized by Department of Biotechnology, February 2023, St. Francis College for Women, Hyderabad.

Participation in National Workshop on "Homology Modelling and Molecular Docking using Bioinformatics Tools", February 2023, St. Francis College for Women, Hyderabad.

Participation in National Seminar on "Applications of Fermentation Technology", November 2022, St. Francis College for Women, Hyderabad.

Certified O grade on Mushroom Cultivation, 'S' Mushroom Agritech, September 2022, Hyderabad, Telangana, India.

LANGUAGES

English - Proficient

Telugu - Proficient

Hindi - Advanced

WEBSITES, PORTFOLIOS AND PROFILES

<https://www.linkedin.com/in/snehitha-kakara-7960b9223/>

DECLARATION

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

Date: 07/05/2025

Place: Hyderabad

Name: KAKARA SNEHITHA