

GANAVI GOWNIVARI

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OBJECTIVE

I aim to secure a position in a company that offers ample opportunities to showcase my skills and pursue a challenging career, contributing to the organization's growth.

EDUCATION

Vignan's University, Guntur, Andhra Pradesh

2021–2025

Btech - Bioinformatics

Current CGPA -8.03

SKILLS

Biotechnology Skills: DNA isolation, Plasmid isolation, PCR, Agarose Gel Electrophoresis, Polyacrylamide Gel Electrophoresis.

Bioinformatics Skills: AutoDocking, Molecular Dynamic Simulation ,Network&Pathway analysis, Phylogenetic analysis, Homology Modelling , Insilico PCR , Sequence Alignment , Motif identification ,Chip-Seq analysis.

Bioinformatic Tools : Galaxy, NCBI-BLAST , FastQC , MEGA , Cytoscape, STRING , Clustal Omega &W , Bowtie ,IEDB ,VaxiJen , MEME ,ChimerX ,PyMol, PLIP, GeneMania, ProteomeHD.

Programming Skills: C programming, Python, SQL, Python Libraries, Microsoft Office.

Soft Skills: Communication skills ,Teamwork , Research ,collaboration .

PROJECTS

Pan proteomic analysis for Bacterial meningitis causative organisms:

(2022-2023)

Pan-proteomic analysis of bacterial meningitis causative organisms identifies protein biomarkers and therapeutic targets, enhancing diagnostics and treatment strategies by comprehensively profiling the proteomes of pathogens involved in the disease.

Biomarker Identification for Alzheimer's disease:

(2023-2024)

This project focuses on identifying potential biomarkers for Alzheimer's disease (AD) by analyzing protein-protein interaction (PPI) networks using bioinformatics tools such as Cyto scape and its plugins. The STRING database is utilized to retrieve a high- confidence PPI network associated with Alzheimer's disease-related genes or proteins.

Mutation Analysis for the gene SMCHD1:

(2023-2024)

This project focuses on analyzing mutations in the SMCHD1 gene, which plays a key role in epigenetic regulation and has been implicated in diseases such as facioscapulohumeral muscular dystrophy (FSHD) and Bosma arhinia microphthalmia syndrome (BAMS). The goal is to identify and assess the potential functional impacts of mutations in SMCHD1 using various bioinformatics tools.

Analyzed integrin proteins using GeneMania, ProteomeHD, and STRING databases to study their functions, pathways, and interactions. Highlighted integrins' roles in cell adhesion, signaling, and extracellular matrix interactions. Explored their involvement in cell migration, immune responses, and cancer progression, providing insights into integrin networks and their potential therapeutic importance.

CERTIFICATIONS

Preliminary English Test (PET) – Cambridge University, conducted at VFSTR

Introduction to Databases Version Control Database structure and management with MySQL Advanced MySQL – Coursera Power BI Python Libraries – Infosys Springboard.

Certified in Design for Biosecurity, Genome Editing and Engineering, and Genetic Engineering: Theory and Application via NPTEL.

ACHIEVEMENTS

Secured 1st Prize for Project Expo on the topic Mutation Analysis during Engineers Day at Vignan's University.

WORKSHOPS AND CONFERENCES

Participated in the International Conference on “Frontiers in Nutrition, Medical Genomics, and Drug Discovery”.

Attended in “NGS for Microbial Metagenomics” course organized by the Department of Biotechnology and Pharmaceutical Sciences, VFSTR in association with Immugenix Biosciences Pvt Ltd, Chennai.

Attended a hands-on workshop focused on “Molecular Docking using AutoDock and simulation” for drug design and protein-ligand interactions.

LANGUAGES

- Telugu
- English
- Kanada
- Hindi