

Vikhram Ravi

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Profiles

in V<u>ikhram Ravi</u>

Summary

An aspiring biotechnologist with a robust foundation in bioinformatics and molecular biology, I try to diversify my skills to adapt to all fields rather than knowing only what I do. My expertise includes CADD in Bioinformatics, Statistical media optimization techniques, Molecular Biology Techniques. I am also skilled in fluid dynamics, particularly for biogas output calculations. Trained in Business Intelligence techniques enabling me to interpret data swiftly. This interdisciplinary versatility allows me to collaborate effectively across various departments, leveraging resources to their fullest potential.

Experience

Sri Projects February 2024 - July 2024 Intern On-Site

- Biogas Yield of Various substrates, VBA macros involving various conditions / real time scenarios from field
- Biogas Output Mass Balance Calculations for Biogas plants.
- AFT Fathom for fluid dynamics analysis in Biogas plants. Stress Analysis for Bio-related plants using CAESAR II
- **NyBerMan Bioinformatics** Intern

Amrita School of Nanosciences and Molecular Medicine

Understanding on the genes involving Breast Cancer

Remote

December 2024 - Present

August 2024 - Present

Master of Technology

Bachelor of Technology

May 2018 - April 2020

Senior Secondary

Secondary

May 2022

November 2014

October 2014

June 2024

April 2024

March 2024

October 2022

October 2023 - March 2024

July 2022 - December 2022

November 2022

January 2023 - March 2023

- Utilizing COSMIC database to obtain datasets on various gene mutations Molecular docking of suitable drug candidates to find affinity of the drugs to be effective against the mutation.
- Education

University of Arizona

Master of Science Immunobiology 4 GPA

Nanobiotechnology

National Institute of Open Schooling

9.25 SGPA Saveetha School of Engineering July 2020 - June 2024

9.006 CGPA Graduated First Class with Distinction

78.6%

Biotechnology

Subjects: Biology, Physics, Chemistry, Computer Science, Psychology, Data Entry Operations, English

Vikhe Patil Memorial School May 2017 - May 2018

6.72 CGPA Awards

SIMATS University

Student Topper

Chess Zonals

Alison

1. Securing 95 Percentile in overall University Examinations. 2. First Mark in Plant Biotechnology & Molecular Biology.

- **Cultural Fest** SIMATS University
- 1. Received 1st Place in Quiz (Non-Technical) of SIMAM-2022.

2. Received 1st Place in Chess of SIMAM-2022.

Chess Nationals CBSE

Received 2nd Runner up in the CBSE National Chess Championship.

CBSE Obtained 1st Runner Up in the South Zone CBSE Chess Championship.

Obtained the Professional Certificate by completing the three courses

Certifications

Google Business Intelligence

Google Career Certificates - Coursera 🌐

Fundamentals in Biotechnology and Genetics

1. Foundations of Business Intelligence 2. The Path to Insights: Data Models and Pipelines

Drug Discovery

UC San Diego - Coursera 🌐

IISc Bangalore - NPTEL

Zebrafish Larvae

Ammo Mist

3. Decisions, Decisions: Dashboards and Reports

Introduction to the Biology of Cancer March 2024

The phases in the development of drug, parameters involved in bringing a drug from the laboratory to the market.

12 Week NPTEL Online course, completed with a proctored exam.

Ammonia sensor for Aquariums

Received Institutional Patent for the invention.

The product received institutional patent.

Drug Delivery: Principles and Engineering

Projects Examining the Toxic effects of Camphene Conjugated with Zinc Oxide Nanoparticles on July 2023 - March 2024

Obtained the certificate with Honors by completing the optional course on Introduction to Liver Cancer.

3. Effects on ROS Enhancement Levels using GPx and GST parameters.

Developed an module for detecting dissolved ammonia in Aquariums and used an IoT module to transmit the data to connected devices, This setup is different from the conventional electrode based ammonia detection.

1. Developmental Toxicity Studies in Zebrafish *in-vivo* model.

Clin Mist Natural Surface Disinfectant

A novel surface disinfectant utilizing the antimicrobial properties of terpinen-4-ol extracted from Green tea was utilized instead of the conventional sodium hypochlorite.

Publications Investigating the Protective Effect of Camphene-Conjugated Zinc Oxide Nanoparticles Against September 2024 Pseudomonas aeruginosa Infection in Danio rerio

Investigating the potential of CAM-ZnO NPs as a treatment for *Pseudomonas Aeruginosa* infections.

Springer - BioNanoScience

Zebrafish Larvae model

Conference

International Conference on Science Presented a paper titled

https://link.springer.com/article/10.1007/s12668-024-01561-3

April 2024

Technical Skills

. CADD, Molecular Docking, PyMol, Linux, DSV Plant Biotechnology, Cancer

Genetics

Bioprocess

Downstream Processing, Mass Balance, Biogas

Evaluating the Pharmacological Profile of Novel Drug Camphene conjugated with Zinc Oxide Nanoparticles using

Developmental Toxicity, Assays, PCR

Molecular Biology

Bioinformatics

Flexible & Adaptive Listening

Soft Skills **Conflict Resolution** Time Management

2. Neurotoxicity analysis by using locomotory parameter. 4. Lipid Peroxidation level analysis using DCFH-DA staining fluorescent Assay.