

Varshini C

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SUMMARY

A motivated Biotech graduate seeking to apply knowledge and skills in the field of sustainable pharmaceuticals.

EDUCATION

- | | |
|-------------|---|
| 2017 – 2021 | B M S College of Engineering,
<i>Bachelor of Engineering (Bio Technology)</i>
Graduated with 7.4 CGPA |
| 2014 – 2016 | Royal Concorde Pre University College,
<i>Department of Pre University Education, Karnataka</i>
Graduated with 78%
Physics, Chemistry, Mathematics, Biology |
| 2014 | St. Charles High School, <i>Indian Certificate of Secondary Education</i>
Graduated with 70% |

PROJECTS

NGS Analysis of Different Cancer Types to Identify Novel Cancer-Causing Gene

Using Galaxy, whole genome sequences of cancer patients were analyzed that belonged to different cancer sub-types. Also, analyzed 59 genes from Chromosome 1 and X and shortlisted 6 genes (SPEN, NOTCH2 and PRDM16 in chromosome 1, and STAG2, KDM6A and AR in chromosome X) that had the greatest number of variants across all cancer sub-types.

Further, the pathways involved in these genes were studied and 20 of the 59 genes were found to be a part of the network that aided carcinogenics. Thus, these network of pathways can be targeted for cancer therapy.

Identification of a potent Acetylcholinesterase Inhibitors against Alzheimer's Disease

To discover multi-target inhibitors with high binding energies. To evaluate the drug likeness of a compound via in-silico virtual screening. To obtain the appropriate lead compounds by studying their ADMET properties.

In silico analysis of HBB gene in Sickle Cell Disease

Collection of data regarding Sickle Cell Disease prevalent in the Indian population – a survey. Homology modeling and analysis of HBB (hemoglobin beta sub-unit) gene using various tools from NCBI and Gene bee. By Docking analysis, the optimum inhibitor against the HBB gene was found.

Extraction of DNA from Buccal Cavity Extraction of DNA from Buccal Cavity

DNA was isolated from the buccal cavity and gel electrophoresis was performed on the freshly micro-centrifuged sample.

PROFESSIONAL EXPERIENCE

03/2021 – 04/2021

Internship in Molecular Docking and Dynamics,
Siddaganga Institute of Technology, Tumkuru

SKILLS

Bioinformatics Skills

AutoDock Tools, SwissADME, Pymol, CASTp and admetSAR

Professional Skills

Spectrophotometer equipment, Centrifugation and Gelelectrophoresis

Computer Skills

Microsoft Office: Word, Excel, PowerPoint
Google Suite: Docs, Sheets, Slide, Forms

Team Management

CO-CURRICULAR ACTIVITIES

09/2019

Melton Foundation Global Citizenship Conference

08/2019

National Symposium on Recent Development in Infectious Diseases - REDIND

EXTRA-CURRICULAR ACTIVITIES

2019 – 2020

Coordinator, Youth Red Cross, B M S College of Engineering

2019

Event Coordinator in annual technical symposium - Phase Shift,
B M S College of Engineering

2018

Junior Coordinator in annual technical symposium - Phase Shift,
B M S College of Engineering

2017

Volunteered in annual technical symposium - Phase Shift,
B M S College of Engineering

2017

Volunteered in BMSCE Cultural fest - UTSAY,
B M S College of Engineering

LANGUAGES

English • Hindi • Kannada

INTERESTS

• Food

• Badminton

• Baking