Tanishq Tejaswi

Curriculum Vitae

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— Education -

Master of Science (Biology) Indian Institute of Science, Bengaluru (2023-present)

Bachelor of Science (Research)

Indian Institute of Science, Bengaluru (2019-2023) Major: Biology, Minor: Chemistry CGPA: 8.6

CBSE All India Senior School Certificate Examination St. Michael's High School, Patna (2017-2019) Marks: 96.8%

CBSE All India Secondary School Examination St. Michael's High School, Patna (2014-2017) CGPA: 10

—— Research Experience –

1. Master's Thesis Project under Dr Medhavi Vishwakarma (Centre for BioSystems Science and Engineering, IISc) (June 2023-Present):-

I am currently carrying out my master's project in the **<u>Epithelial Mechanobiology Lab</u>**.

2. Bachelor's Thesis Project under Dr Sona Rajakumari (Department of Developmental Biology and Genetics, IISc) (September 2022-April 2023):-

For my bachelor's project in the <u>Adipocyte Biology Lab</u>, I attempted to study the role of RNA Helicase A (DHX9) in GLUT4 expression and translocation to cell membrane, and its effect on glucose uptake rate in brown adipocytes. During this time, I also learnt the process of lentiviral transduction.

3. Internship under Dr Naiyang Fu (ACRF Cancer Biology and Stem Cells Division, WEHI) as part of the International Student Program in Research Experience (In-SPIRE) (May 2022-July 2022):-

As an InSPIRE student at **Fu Lab**, I investigated the effects of inhibiting β -catenin on the survival and proliferation of two Hepatocellular Carcinoma (HCC) cell lines – HepG2 and Huh7. In the process, I learnt some mammalian tissue culture techniques such as maintaining cell lines, carrying out in-vitro drug treatment assays and transfections.

4. Internship under Dr Mohit Kumar Jolly (Centre for BioSystems Science and Engineering, IISc) (July 2020-April 2022): -

As an intern in the <u>Cancer Systems Biology Lab</u>, I was involved in the analysis of gene datasets of Circulating Tumour Cells (CTCs) and of samples from patients with lung diseases like COPD and IPF.

5. Project CellOPHane, iGEM IISc 2021: -

iGEM (International Genetically Engineered Machine) is a synthetic biology competition in which about 350 teams from 40 countries participate. I partcipated in iGEM 2021 as a member of the undergraduate team from IISc.

In our project <u>CellOPHane</u>, we tried to make a bacterial cellulose filter for pesticide-polluted water. The filter could be functionalised with an organophosphate-degrading enzyme to degrade the organophosphorous pesticides. I was involved in synthesising the enzymes and also in the production of bacterial cellulose.

— Publications —

- Mandal S, Tejaswi T, Janivara R, Srikrishnan S, Thakur P, Sahoo S, Chakraborty P, Sohal SS, Levine H, George JT, Jolly MK. Transcriptomic-Based Quantification of the Epithelial-Hybrid-Mesenchymal Spectrum across Biological Contexts. *Biomolecules.* 2022; 12(1):29. doi:10.3390/biom12010029
- Bocci F, Mandal S, Tejaswi T, Jolly MK. Investigating epithelial-mesenchymal heterogeneity of tumors and circulating tumor cells with transcriptomic analysis and biophysical modeling. *Comp* Sys Onco. 2021;1:e1015. doi:10.1002/cso2.1015

— Awards and Achievements –

- Gold Medal for Project CellOPHane as part of Team iGEM IISc in iGEM 2021
- Kishore Vaigyanik Protsahan Yojana (KVPY-SA) Fellowship awarded by the Department of Science and Technology, Government of India, in 2018
- National Talent Search Exam (NTSE) Scholarship awarded by National Council for Education in Research and Training (NCERT), Government of India, in 2016

— Extra-Curricular Activities —

- Coordinator of the **What Would Darwin Do (WWDD) event at Pravega**, the UG Science Fest of IISc, in **2021**. WWDD was a science event in which the participants were tested on their ability to think about problems related to ecology and evolution.
- Volunteered in organising the WWDD event and conducting the Whodunnit event at Pravega in **2020**.
- Volunteered in Open Day, the Science Fair of IISc, in 2020 and 2023.

— Skills —

- Programming Language: R
- Basic molecular biology and biochemical techniques
- Basic microbiological techinques
- Basic mammalian cell culture techniques