

Aparna Goswami

India



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Summary

I have worked on Anti-genotoxic effect of Aloe vera gel in my UG and developed my interest in cell functioning and response.

- I've spent some time on a mini project focused on biofuel production and ended up developing interest in metabolites.
- I am currently working on Metabolomics of fruits (linking phytochemicals to Nutrition and Health) as my Masters degree research project.
- I would love to advance my understanding and do research further, through PhD study with an expert at a remarkable Institution.

Experience



PG Project

Indian Institute of Technology, Mandi

Jun 2020 - Present (11 months +)

- Metabolomics of Himalayan fruits - linking phytochemicals to nutrition and health.
- Built a database for Himalayan Essential oil for my Lab using Python and Django. It contains data of 18 oils and hundreds of metabolites along with their properties.
- Developing a database for Himalayan fruit metabolome.
- Using Python, SQLite and Django for the backend and frontend development.



Teaching Assistant

Indian Institute of Technology, Mandi

Aug 2019 - Present (1 year 9 months +)



Winter Intern

Indian Institute of Technology, Mandi

Dec 2019 - Feb 2020 (3 months)

Worked on setting up the computational pipeline for small RNAseq analysis for mammalian systems.
Performed RNA extraction.



Bioreactor development

Indian Institute of Technology, Mandi

Sep 2019 - Nov 2019 (3 months)

Developed a prototype of photobioreactor.



UG Project

Sardar Vallabhbhai Patel University of Agriculture & Technology

Jul 2018 - May 2019 (11 months)

Anti-mitotic and Anti-Genotoxic potential of Aloe vera gel on Atrazine treated Allium cepa root tip meristem cells.

Education



Indian Institute of Technology, Mandi

Master of Technology - M.Tech, Biotechnology

2019 - 2021

Currently Pursuing

CGPA- 8.6



Sardar Vallabhbhai Patel University of Agriculture and Technology

Bachelor of Technology - B.Tech, Biotechnology

2015 - 2019

CGPA- 8.27

Licenses & Certifications



CERTIFICATE OF TRAINING - PROGRAMMING WITH PYTHON - Internshala

B850241E-B844-1D2D-3BCA-E146B01314C3



Trends and Prospects in Bio-refinery - Dr B R Ambedkar National Institute of

Technology, Jalandhar

NITJ/BT/STC/TPB-171

Skills

Interpersonal Communication • Teamwork • Django • Bioreactor • Metabolomics • Python (Programming Language) • Leadership • High-Performance Liquid Chromatography (HPLC) • GC-MS • NMR Spectroscopy

Honors & Awards



SILVER MEDAL - SARDAR VALLABHBHAI PATEL UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

Sep 2019

UNIVERSITY MEDAL FOR ACADEMIC EXCELLENCE IN UG