Mr. Bhavauk

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Research Project: I am part of a research project that characterizes the antioxidant, antibacterial, and anticarcinogenic potential of *Curcuma longa* after tannin acyl hydrolase-mediated biotransformation. We will assess the antioxidant activity through the DPPH radical scavenging assay, antibacterial activity through the Agar well diffusion assay, and anticarcinogenic activity through the MTT assay. Employing this methodology, I will be able to analyze the therapeutic potential of turmeric tannins in combating oxidative stress, bacterial infections, and cancer development. This multifaceted approach will help us understand turmeric's role in medical science and hone my skills in designing andexecuting experiments.

Academic Qualifications:

Course	School/College	University/Board	Session	Percentage
MSc. (H) HGMM	Amity University, Punjab	Amity University	2023-2025	Result Awaited [Percentage as of completion of 2 semesters = 7.10]
BSc. (Medical science)	GGDSD College, sector 32, Chandigarh	Panjab University	2018-2021	74.4
12th	New Adarsh Senior Secondary School, Hisar	Board of School Education Haryana	2017-2018	87.2
10th	New Adarsh Senior Secondary School, Hisar	Board of School Education Haryana	2015-2016	91

Research Projects Undertaken:

- **Project title:** Anti-oxidant, Anti-bacterial and Anti-carcinogenic potential of turmeric-derived tannins.
- **Supervisor:** Dr. Anil Sharma, Dean, Amity University, Punjab.
- **Responsibilities:**
  - Isolated bioactive compounds
  - Analysis of therapeutic properties
  - Correlated structure-activity relationships
  - Innovated in natural product research
  - Presented research outcomes
- **Area of work**: Phytochemistry, Molecular Biology, Biochemistry, pharmacology

Skills & Competencies:

- Handling biological samples for assays
- Foundation in Computational tools and techniques
  - Comprehensive foundation in bioinformatics
  - Knowledge of sequencing alignments using bioinformatics tools and software
  - Experience with bioinformatics databases tools for analyzing biological data including BLAST, UNIPORT
- Experience in molecular characterization through techniques like chromatography
- Proficiency in Molecular Biology Techniques:
  - Skilled in PCR (Polymerase Chain Reaction) for DNA amplification as well as DNA sequence modifications
  - Experienced in various electrophoresis techniques for DNA and protein analysis
  - Proficient in chromatography techniques for protein purification and analysis

- Familiarity with Bioanalytical Techniques:
    - Possess operational knowledge of CD Spectroscopy (Circular Dichroism), FTIR (Fourier Transform Infrared Spectroscopy), HPLC (High-Performance Liquid Chromatography), and Flow Cytometry.
    - Understand principles underlying various bioanalytical methods, facilitating effective utilization and interpretation of experimental data.
- Comprehensive understanding of scientific principles and experimental plans
- Capability of understanding scientific methodology and conducting experiments
- Results analysis
- Troubleshooting and problem-solving
- Strong communication and presentation skills
- Interpersonal skills and ability to work with a diverse group

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Outreach Activities and Extracurriculars:

- Student coordinator of the Students' Journal club at Amity University, Punjab.
- Visited Dabur India Limited as a part of an Industrial Visit in 2022.
- School presentations, workshops, public talks, and industrial visits.
- Curate an Instagram gallery showcasing my photoshoots and video shoots.

Languages:

- English
- Hindi
- Punjabi
- Beginner-level German

21/10/2024