

VINEETA SHARMA

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As a dedicated researcher with a robust foundation in Biotechnology, Bioinformatics, and Neuroscience, my objective is to contribute significantly to Science through innovative research and collaboration.

EDUCATION

Integrated Bachelors-Masters in Biotechnology (Honours), Jamia Hamdard University, New Delhi (2018-2023) - Bachelors CGPA: 8.2, Master's CGPA: 8.6

RESEARCH EXPERIENCE :

- **Professional Development (February'25-present) :**
 - Certified MATLAB for Neuroscience [MathWorks Training]
 - Focus: Programming basics, data visualization, and analysis in neuroscience contexts
- **Research Assistant, Delhi University of South Campus (July'23- Jan'25)**
 - Decipher cellular and molecular level of human neurodegenerative brain disorders like Alzheimer's, Huntington's, Parkinson disease and some kind of spinocerebellar disorders , utilizing Drosophila as model organism.
- **Structural biology Intern , BAiozyme (June'24-December'24)**
- **Dissertation Student, Behavioral Neuroscience, DRDO (Feb 2023 – July 2023) :**
 - Conducted a thesis on 'Effect of acute stress on thermal nociception' (pre-clinical study).
- **Research Intern, Life Sciences Sector Skill Development Council (LSSSDC), ISFCP-Skill Vigyan Programme (Oct 2021 – Apr 2022) :**
 - Worked as a Production/Manufacturing Chemist.
- **Subject Matter Expert, Physics Wallah (Jun 2022- Aug 2022) :**
 - Worked as a Subject Matter Expert under prestigious organization like Physics Wallah.
 - Solved numerous questions for **NEET aspirants** (National Eligibility cum Entrance Test) in Biology field.
- **Research Intern (May 2022-June 2022) :**
 - Worked in bioinformatics field under **Dr. Kamal Rawal** .
 - Learnt plag removal , scripting of coding .
 - Also learnt Python , Linux , Alignment tools like Blast , Fasta .
 - Regularly interacted with team mates and maintained a log report.

SKILLS :

- **Bachelor's :**
 - Bio-informatics: PYTHON , LINUX , BLAST , FASTA , hydropathy plots study.
 - Molecular biology/Biochemistry: PBMC isolation from whole blood ,Protein estimation using Bradford/Biuret/Lowry methods , UV spectroscopy , TLC chromatography , paper chromatography, DNA/RNA isolation, making competent cells , bacteria gram staining.
- **Master's :**
 - Bio-informatics : AUTO-DOCKING , PYMOL , AUTODOCK VINA .
 - Molecular biology : ELISA , PCR, Western blotting , cell culture , cells passaging, cells detachment , gel electrophoresis, SDS-PAGE.

➤ **Master's dissertation :**

- Molecular biology : Animal handling (BALB/c and C57Bl/6 mice models), Hematology.
- Behavioral Neuroscience : OFT , NORT , Hargreaves , OFT optovarimax , Microtomy , Vibrotome , Hot plate , tail flick test , Forced swimming test , Grip strength , Rotarod.
- Some software : ImageJ , GaphPad Prism , MS Excel , MS Powerpoint.

SCHOLARSHIP :

- Received the **Merit-cum basis Scholarship in Master's first year** for scoring 85% overall .

JOURNAL CLUB :

Have done an oral presentation during 2nd semester and 3rd semester of Master's, on :

- Pathogenic tau recruits wild type tau into brain inclusions and induces gut degeneration in transgenic mice. (Communications biology).
- Cis- and trans- resveratrol have opposite effects on histone serine-ADP ribosylation and tyrosine induced neurodegeneration. (Nature Communications).

REFERENCES DETAILS:

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2. Dr. Javaid Ahmad Sheikh

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