**DURGANAND THAKUR, M.Sc.**

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# Education

**Visva-Bharati Santiniketan Santiniketan, W.B., India**

* M.Sc. Biotechnology, First Class **July2022**

**Maulana Abul Kalam Azad University of Technology Kolkata, W.B., India**

* B.Sc. Biotechnology, First Class **June2020**

# Research Experience

**Stem Cell Lab, Dr. Shroff Charity Eye Hospital, August 2023-Present**

**Delhi, India**

We will rigorously define proangiogenic activity of Alu cDNA and examine whether and how the proangiogenic mechanism of Alu cDNA and VEGF converge and interface. To that end, we will determine whether a rationally guided reformulation of reverse transcriptase inhibitor can be repurposed for the treatment of ocular angiogenesis.

**Visva-Bharati Santiniketan, Centre for Biotechnology**

**Santiniketan, W.B., India**

## Undergraduate Researcher; Advisor: Dr. Jolly Basak

“Expression analysis of coat protein gene of MYMIV in *p.vulgaris”* at Genomics of plant stress Biology laboratory under of Dr. Jolly Basak (Visva-Bharati University).

**Technical Skills**

**Patient sample handling:**

* Handled liquid biopsy sample of retinoblastoma patients at Handled liquid biopsy sample of retinoblastoma patients at Stem Cell Lab, Dr. Shroff Charity Eye Hospital, Delhi, India. Samples were received in EDTA vials. We processed the sample and collected plasma and buffy coat to isolate cell free DNA and to check mutation in different cancer driving gene and stored plasma at -80 C and Buffy coat at -20 C.

**Protein chemistry:**

* SDS-PAGE and Western blot analysis
* IHC

**Cell Biology:**

* Expertise in mammalian cell culture (ARPE-19, MCF-7, VERO Cell line), thawing, passaging/splitting, and freezing.
* Transfection of a plasmid in the cell using electroporation and characterization of its transfection efficiency.

**Molecular Biology:**

* Genomic DNA isolation using a DNA isolation kit (Qiagen, Promega, and Mdi). Experienced with Miniprep, and Maxiprep.
* Polymerase Chain Reaction (PCR) technique for DNA amplification.
* Bacterial transformation, cloning, and transfection
* Electroporation

**Microscopy:**

* Fluorescence microscopy
* Confocal microscopy
* Phase contrast microscopy

# Awards and Fellowships

1. Qualified Graduate Aptitude Test in Engineering (GATE - 2023), in Life Science, conducted by the Indian Institute of Technology (IIT) – Kanpur.
2. Qualified Graduate Aptitude Test -Biotechnology (GAT-B 2020), conducted by DBT-RCB Faridabad.

# Conference presentations/participations

1. Indo-US International Conference on Antimicrobial Resistance and Human Microbiome (ARHM2023).
2. Hands on training- “isolation and characterization of viruses and bacteria from various samples” Organized by IIT-Indore.

**List of referees**

1. **Dr. jolly Basak**

**Assistant Professor**

**Department Of Biotechnology**

Siksha Bhavana (Institute of Science)

Visva-Bharati, Santiniketan – 731235

Birbhum, WB, INDIA

Email: jolly.basak@visva-bharati.com

1. **Dr. Tathagata Choudhuri**

**professor**

**Department Of Biotechnology**

Siksha Bhavana (Institute of Science)

Visva-Bharati, Santiniketan – 731235

Birbhum, WB, INDIA

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