

# Curriculum Vitae

**SUSHAMA RANI SAU**

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**Present Address:** RLB Hall, IIT Kharagpur, Kharagpur,  
Paschim Medinipur, PIN-721302, West Bengal, India



- **Current Affiliation :**

PhD, Junior Research Fellow, July 2025 - Present  
IIT Kharagpur,  
School of Medical Science & Technology

- **Academic Qualification :**

Qualification	Institution	Subject	CGPA/%	Year Of Completion
M.Sc.	Vidyasagar University (VU)	Human Physiology	8.25/10	2023
B.Sc.	Raja Narendralal Khan Women's College(RNLKWC)	Physiology	8.87/10	2021
Higher Secondary	Purunda Ramakrishna Siksha Sadan	Bioscience	87.4%	2018
Secondary	Purunda Ramakrishna Siksha Sadan	-	73.57%	2016

- **Achievements & Scholarships:**

- **CSIR-UGC-NET DEC-2024, JRF, AIR-199** 2025
- **GATE-XL, Score-523,** 2025
- **CSIR-UGC-NET JUN-2024, JRF(Life Science) AIR-224** 2024
- Swami Vivekananda Merit-cum-Means Scholarship 2021-2023 & 2018-2021
- Silver medal, First-class second in B.SC. 2021
- 3<sup>rd</sup> position in "DEBATE" on Science, Rashtriya Madhyamik Siksha Abhiyan 2017

- **Research Interest:**

Cancer biology, role of tumor microenvironment(TME) in immunoescape & cancer progression, metabolic regulation, Cancer Stem Cells(CSCs), specific biomarker for cancer diagnosis and to find out novel therapeutic strategies, targated drug delivery and immunotherapy.

- **Research Experience:**

- **Project Title-** Potential antivenom activity of *Gymnema sylvestre R. Br.* leaf extract- An experimental study. (2023)
- **Advisor**– Dr. Sumana Sarkhel, Vidysagar University, West Bengal
- **Description-** Aimed to investigate antivenom potential of traditional plant *G.sylvestre* against *Vipera russeli* venom on mice model. We found that *G.sylvestre* aqueous and methanolic leaf extract is effective in reducing lethality, hemorrhagic, edema inducing & PLA2 activity of the venom and methanolic extract is more efficinet than aqueous extract.

- **Experimental Skills:**

- Cell culture and realted study
- Molecular biology techniques
- Western Blotting

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- ELISA
- Tissue staining
- Genomic DNA & Plasmid DNA isolation
- Animal handling (mice & toad).

- **Other skills:**

- Ability to work in team and independently also.
- Organizing events and hosting programme.
- Enthusiastic, co-operative, innovative, positive mindset & dedicated.

- **Workshops, Webinars & Conference Attend:**

- International conference on “Recent Advances in Medical Science and Technology (RadMed-2025), IIT Kharagpur
- From cell to solution: Mastering Protein Purification and Characterization, 2025
- Biotech Industrial Training “Genomic Data Analysis”, 30M Genomics, 2024
- PHYSICON-2022, The Physiological Society of India, Vidyasagar University, 2022
- “Importance of Yoga In Pandemic COVID-19”, Santal Bidroha Sardha Satabarshiki Mahavidyalaya, 2020
- CRISPR-CAS9: Cut gene where you want, 2020

- **Language skill:**

Bengali, English, Hindi

- **Self Declaration:**

I hereby declare that the information provided above is true to the best of my knowledge and belief.

Sushama Rani Sau

Date: 20/02/2026