

## Curriculum Vitae

**Name :** Rupa Chaudhuri  
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### Educational Qualification:

Degree	Institute	Passing Year	Percentage/ CGPA
M.Sc Environmental Science	Ballygunge Science College University Of Calcutta	2021	8.164 CGPA
B.Sc Microbiology(Hons.)	Dinabandhu Andrews College University of Calcutta	2019	65%
West Bengal Council of Higher Secondary Education	Kamala Girls' High School	2016	85%
West Bengal Board of Secondary Education	United Missionary Girls' High School	2014	87%

### Additional qualification:

Subject	Year of passing out	AIR
GATE XL (LIFE SCIENCE)	2023	1833
GATE BT (BIOTECHNOLOGY)	2024	1801

### Work Experiences:

- Currently working as a **Teaching Assistant**, as a faculty of Environmental Science, Department of Chemistry, School of Basic and Applied Science, Adamas University.

### Research Experience:

- Working experience of 2 years as Project Assistant for the project entitled "**Impact of air quality on human health: Exploration of probable PM2.5 triggered pathways associated with lung cancer in the exposed population of Kolkata**" under the guidance of **Dr. Dona Sinha**, HOD of Receptor Biology and Tumor Metastasis of Chittaranjan National Cancer Institute, Kolkata.
- Internship of 3 months on **PM2.5, PM10, SO2, and NO2 monitoring of the ambient air quality** under the supervision of **Dr. Punarbasu Chowdhury** at the Department of Environmental Science, University of Calcutta.

### Research Experience:

<b>Techniques learned</b>	<b>Instruments handled</b>	<b>Environmental Pollution related instruments</b>
<i>Molecular Biology</i> <ul style="list-style-type: none"><li>• Leukocyte isolation and DNA, RNA, and protein extraction from the human blood &amp; sputum sample.</li><li>• ELISA &amp; Western blot.</li><li>• Zymography.</li><li>• Real-time PCR.</li><li>• Immunocytochemistry and immunofluorescence staining.</li><li>• ROS estimation.</li><li>• Qualitative and quantitative analysis of antigen and antibody.</li></ul>	Light microscope Fluorescence microscope Spectrophotometer, NanoDrop  Gel-Doc, Chemi-Doc Sonicator.  Lyophilizer.  Microtome	Estimation of atmospheric PM2.5 concentration using APM550 EL PM2.5 sampler  Arsenic analysis from digested nail samples using  AAS
<i>Microbiology</i> <ul style="list-style-type: none"><li>• Qualitative analysis of water.</li><li>• Microbial analysis of water sample.</li><li>• Microbe isolation and pure culture from air, soil, and soil samples.</li><li>• Gram staining.</li><li>• Antimicrobial susceptibility testing.</li></ul>	High-Performance Liquid Chromatography (HPLC). Atomic Absorption Spectroscopy (AAS).	Volatile organic carbon analysis from PM2.5 extract using HPLC.

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*Biotechnology*

- Restriction digestion.
- Bacterial transformation.
- Plasmid isolation.

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Mammalian cell culture

Microbial culture (broth culture, agar plating).

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- Attended CU-BD International Conference and **workshops on flow cytometry**.
- Offline health survey on the topic “**Health Survey to Monitor the Effects of Air Pollution on the Development of Respiratory Problem**”.
- M.Sc dissertation work on “**A computational strategy to address the association of miRNA and specific oncoprotein in rectal cancer**”.

**Publications:**

- Rupa Chaudhuri, Anurima Samanta, Priyanka Saha, Sukanya Ghosh, Dona Sinha. **Potential of epigallocatechin gallate in targeting cancer stem cells: A comprehensive review**, Current Medicinal Chemistry, Bentham Science, 2023. (Accepted)
- Priyanka Saha, Anurima Samanta, Sukanya Ghosh, Rupa Chaudhuri, Dona Sinha. **Regulation of cell death by cysteine proteases in breast cancer**, Handbook of Proteases in Cancer: Cellular and Molecular Aspect, Elsevier, 2023.( Accepted)
- Rupa Chaudhuri, Punarbasu Chaudhuri, Aniruddha Mukhopadhyay, Pritha Bhattacharjee. Chapter 5 - **Emerging COVID waste and its impact on the aquatic environment in India**, Emerging Aquatic Contaminants, Elsevier, 2023. <https://doi.org/10.1016/B978-0-323-96002-1.00015-8>.
- Sukanya Ghosh, Priyanka Saha, Anurima Samanta, Rupa Chaudhuri, Dona Sinha. Chapter 20 - **Phospholipases as pivotal players in signal transduction during tumorigenic processes**, Phospholipases in Physiology and Pathology, Elsevier, 2023. <https://doi.org/10.1016/B978-0-323-95698-7.00008-5>.
- Shubhalakshmi Sengupta, Venkatalakshmi Jakka, Rupa Chaudhuri, Aniruddha Mukhopadhyay, Papita Das.17 - **Use of sewage sludge for the development of adsorbents for waste water treatment**, Development in Waste Water Treatment Research and Processes, Elsevier, 2022. <https://doi.org/10.1016/B978-0-323-85584-6.00018-2>.

**Skills**

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<b>Computer skills</b>	MS office, GraphPad Prism.
<b>Inter- personal skills</b>	Offline survey, public speaking, manuscript writing, experienced teaching, student handling etc.

**Languages** : English, Hindi, Bengali.

**Career Objective:**

I, being a positive and hardworking person with enormous patience, intend to build a teaching career inculcating knowledge, discipline and current affairs-related important information into the students along with a dedicated team where I can explore myself and reframe my potential utilizing all my skills and experiences.

**References:**

**1. Dr. Dona Sinha**

Head, Receptor Biology and Tumor Metastasis

Chittaranjan National Cancer Institute

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**2. Dr. Aniruddha Mukhopaddhyay**

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**3. Dr. Punarbasu Chaudhuri**

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**4. Dr. Pritha Bhattacharjee**

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