



# Anushka Mondal

## Curriculum Vitae

### CURRENT RESEARCH

To Understand how the gap junction protein Connexin43 induces a hybrid E/M phenotype in cancer cells, thus promoting metastasis.

### PUBLICATIONS

● **Publication:- Mondal, A., Gireeshwar, M., & Govindaraj, L. (2022). Black Fungus Mutilating COVID-19 Pandemic in India: Facts and Immunological Perspectives. European Journal of Biology, 81(1), 96-106.**

<https://doi.org/10.26650/EurJBiol.2022.1083922>

● **Publication:- Sharma, M., Mukherjee, S., Shaw, A. K., Mondal, A., Behera, A., Das, J., ... & Sarma, J. D. (2023). Connexin 43 mediated collective cell migration is independent of Golgi orientation. Biology Open, 12(10).**

● **Publication:- Tuning the Organelle-Specific Imaging and Photodynamic Therapeutic Efficacy of Theranostic Mono- and Trinuclear Organometallic Iridium(III) Complexes Bishnu Das, Subhadeep Gupta, Anushka Mondal, Kalyan Jyoti Kalita, Amirul Islam Mallick, and Parna Gupta Journal of Medicinal Chemistry Article ASAP DOI: 10.1021/acs.jmedchem.3c01875**

● **Publication:- Anushka Mondal, B. Das, S.Pani, Parna Gupta\*, Jayasri Das Sarma\*. Cyclometallated polypyridyl Iridium complexes as a potential anticancer agent in cervical cancer (Manuscript under preparation).**

● **Publication:- Anushka Mondal, S. Roy, Jayasri Das Sarma\*. Role of Connexin 43 in promoting Cervical cancer cells to metastasize (Manuscript under preparation).**

### CONTACT DETAILS



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### OBJECTIVE

I am a dedicated researcher with a strong aspiration to become a cancer biologist. My determination is rooted in a desire to contribute to basic science research, specifically in finding a solution to the widespread and devastating challenge of cancer. I am fully committed to this pursuit, fueled by a profound understanding of the suffering experienced by patients and their families affected by cancer. My interest in delving into cancer biology research has been a long-standing goal since my early years.

### EDUCATION

- Previous Degree: 5 years Integrated BS-MS Course at **IISER Kolkata** (2018-2023)
- Schooling: Bhavan's Gangabux Kanoria Vidyamandir
- Schooling: Gokhale Memorial Gor's School

### SCIENTIFIC EXPOSURE

- Attended a Bio-analytical workshop where hands-on training was given on various advanced biological analytical workshop in 2022 [<https://www.iiserkol.ac.in/~baw/>]
- Attended a Bio-analytical outreach conference held in Ooty in 2022.
- **Module instructor of tissue sectioning in Bio-analytical Workshop 2022.**
- **Module instructor of Certificate Courses held at Animal Facility IISER KOLKATA.**

## ACHIEVEMENTS

- Prime Minister's Research Fellow - Direct Entry( 2023-2028)
- Qualified JEE Advanced 2018 and selected for Applied 5-year Integrated course (M Tech) on applied GEOLOGY at Indian Institute of Technology(IIT )Dhanbad.
- Qualified WBJEE and Selected for B. Tech at LEATHER TECHNOLOGY 2018, Kolkata.
- Qualified and got selected for the IISER Aptitude Test, 2018.
- Secured high score in an international exam -Toefl iBT score of 109/120.
- Teaching assistant of Introduction to Biology II (LS1201)-2022
- Teaching assistant of Introduction to Biology II (LS1201)-2023
- Module Instructor at Certificate course offered on Animal Handling and Research

## LABORATORY SKILLS

- In-vitro cell culture techniques
- Molecular biology techniques
- Flow cytometry
- In-vivo studies

## ABOUT ME

In addition to my enthusiasm for research, I also engage in social work and have a deep love for music. Actively participating in extracurricular pursuits is a significant aspect of my life. Notably, I was recognized as the cultural secretary for BAW in both 2022 and 2023. Incorporating activities like dancing and singing into my routine not only complements my passion for research but also contributes to my growth as a researcher.

## INTERNSHIPS

- Internship under Prof. (Dr.) Dilip Kumar Pal, H.O.D., Department of Urology, IPGME&R, Kolkata, on Renal Cell Carcinoma in May 2019.
- Pursued reading projects under Prof. Partho Sarothi Ray and Prof.Supratim Dutta during the COVID period.
- Pursued internship at Bose Institute under the guidance of Prof. Mahadeb Pal.
- Pursued internship on Differential migration rate in Cervical cancer cells under the supervision of Professor Jayasri Das Sarma in 2022.

## REFEREES

- Professor Jayasri Das Sarma | Department of Biological Sciences| IISER Kolkata | [dassarmaj@iiserkol.ac.in](mailto:dassarmaj@iiserkol.ac.in)
- Associate Professor Arnab Gupta | Department of Biological Sciences |IISER Kolkata | [arnab.gupta@iiserkol.ac.in](mailto:arnab.gupta@iiserkol.ac.in)