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Academic qualifications

Degree	Subject	University	Year
Ph.D	Physiology	University of Calcutta	Pursuing
M.sc	Zoology	University of Calcutta	2008
B.Sc	Zoology	University of Calcutta	2006
PH.D. DETAILS		Supervisor: Dr. Subhadeep Ganguly	
Title of the Thesis		Studies on The Mechano-kinetic and Physiological perspectives of Microbial Bioremediation of Lead	
Field of specialization under subject/ discipline		Bioremediation	
PREVIOUS POSITIONS/Engagement		<p>Research: Pursued research work as CSIR-UGC Research Fellow from 2009-2014 at Indian Institute of Chemical Biology, Kolkata.</p> <p>Teaching: Joined Vidyasagar College as a 'Contractual whole-time Teacher (College Appointed CWTT)' in the Zoology department from 2017.</p> <p>Joined Vidyasagar College as a 'Guest Teacher' in the post-graduate section of the Zoology department from 2015 to 2017.</p> <p>Technical Assistant: Worked as an operator for Beckman Coulter MoFlow XDP cell-sorter (FACS) during 2014-2017.</p>	
Google scholar page:		https://scholar.google.com/citations?user=PvEm-TcAAAAJ&hl=en	
ORCID ID		https://orcid.org/0000-0002-5238-2763	
HONOURS AND AWARDS		CSIR-UGC NET: Awarded Junior Research Fellowship and lectureship (UGC) in Life Science(2008)	
CURRENT RESEARCH PROJECT/Field of Research		Bioremediation of Lead from contaminated waterbodies.	
TECHNICAL UNDERSTANDING AND EXPERIENCE		Flow cytometry on BD FACS LSR Fortessa and Fluorescence activated cell sorting (FACS) on Beckman Coulter MoFlo XDP, Cell-cycle analysis, BrdU assay, Apoptosis assay, Cell culture: bacterial and eukaryotic, Cell counting, DNA/RNA/protein isolation and measurements, Gene cloning, Gene sequencing, Bacterial Transfection and Transformation, Eukaryotic Transfection, Gene Knock-down and Stable-cell line generation, PCR, Real-time PCR, RT-PCR array, Gel electrophoresis, Western blots, Protein Immuno-precipitation, Chromatin-immuno precipitation(ChIP), ChIP-Sequence, Soft-agar assay, Micro-array, Fluorescence and Confocal microscopy, Scanning Electron Microscopy (SEM) with Energy Dispersive X-Ray Analysis (EDX), Fourier transform infrared (FTIR) spectroscopy, Atomic absorption spectroscopy (AAS).	

SUMMARY OF RESEARCH EXPERIENCE	<ul style="list-style-type: none"> • Transcriptional regulatory roles of Cdc20 and its localization throughout different phases of cell cycle while exploring Cdc20 over-expression and its tumorigenic potentials in human cancer. • Isolation, characterization and development of a Pb²⁺ - resistant microorganism for effective biosorption and bioaccumulation of Pb²⁺ from contaminated waterbodies: An alternative, cheap, eco-friendly method.
COMPLETE LIST OF PUBLICATIONS	<ul style="list-style-type: none"> • Bhattacharyya, K., Bhattacharjee, N., Sen, D., Lai, T.K., Ghosh, A.K., Pal, R.R. and Ganguly, S., 2024. Unlocking Cd (II) biosorption potential of <i>Candida tropicalis</i> XTA 1874 for sustainable wastewater treatment. Scientific Reports, 14(1), p.15690. • Bhattacharyya, K., Sen, D., Banik, A.K. and Ganguly, S., 2023. Adsorptive removal of cadmium from aqueous medium-a critical review. Physics and Chemistry of the Earth, Parts A/B/C, p.103538. • Bhattacharyya, K., Sen, D., Laskar, P., Saha, T., Kundu, G., Ghosh Chaudhuri, A. and Ganguly, S., 2023. Pathophysiological effects of cadmium (II) on human health-a critical review. Journal of Basic and Clinical Physiology and Pharmacology, 34(3), pp.249-261. • Hazra, A., Bhattacharyya, K., Dutta, S., Ghosh, H., Sen, D., De, A., Bhattacharjee, N., Pattnaik, S. and Ganguly, S., 2023. Isolation and characterization of a novel L-Methionine producer from Mahanadi river site in Sambalpur district of Odisha, India. Biocatalysis and Agricultural Biotechnology, 49, p.102659. • Bhattacharyya, K., Sen, D., Dey, B.B., De, A., Bhattacharjee, N., Biswas, A.B. and Ganguly, S., 2022. Isolation and characterization of heavy metals and non-metallic pollutant-tolerant microorganism from wastewater of Tollygunge Canal (Kolkata) West Bengal, India. Biologia, 77(8), pp.2359-2369. • Nargis, T., Kumar, K., Ghosh, A.R., Sharma, A., Rudra, D., Sen, D., Chakrabarti, S., Mukhopadhyay, S., Ganguly, D. and Chakrabarti, P., 2017. KLK5 induces shedding of DPP4 from circulatory Th17 cells in type 2 diabetes. Molecular Metabolism, 6(11), pp.1529-1539. • Bhowal, A., Majumder, S., Ghosh, S., Basu, S., Sen, D., Roychowdhury, S., Sengupta, S. and Chatterji, U., 2017. Pathway-based expression profiling of benign prostatic hyperplasia and prostate cancer delineates an immunophilin molecule associated with cancer progression. Scientific reports, 7(1), p.9763. • Nath, S., Banerjee, T., Sen, D., Das, T. and Roychowdhury, S., 2011. A novel transcriptional role of spindle assembly checkpoint protein Cdc20 regulating the expression of mitotic ubiquitin carrier protein Ubch10. Cancer Research, 71(8_Supplement), pp.3075-3075. • Nath, S., Banerjee, T., Sen, D., Das, T. and Roychowdhury, S., 2011. Spindle assembly checkpoint protein Cdc20 transcriptionally activates expression of ubiquitin carrier protein Ubch10. Journal of Biological Chemistry, 286(18), pp.15666-15677.