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Ankita Chakraborty

Education

2017–2019 M.Sc. in Biotechnology, Department of Biotechnology, Techno India University, India

2014–2017 B.Sc. in Microbiology, University of Calcutta, India

Research Experience

2023-Present Project Tile: Characterization of the relationship between G quadruplex, 3D

Ph.D. **nuclear organization, and genome stability**, *Department of Biosciences*, University Student of Milan, Italy, Cloned ZBED genes in bait vector to conduct protein interaction studies by yeast 2—hybrid screening

2021-2022 **Project Title: Molecular and epigenetic characterisation of a novel long non-**Graduate **coding RNA as a predictive biomarker of glioblastoma**, *Department of Bio-*Assistant chemistry, University of Pecs, Hungary, Designed synthetic microRNAs to target a novel long non-coding RNA (Antisense-MGMT) in an inducible expression vector and co-transfected in glioblastoma cell lines

2020-2021 Project Title: Site-directed Mutagenesis in Recombinant Human $\alpha\beta$ Crystallin Research and over-expression of the mutants in Escherichia coli,

Assistant Department of Chemical Sciences, Saha Institute of Nuclear Physics, India, Conducted site-directed mutagenesis in recombinant human $\alpha\beta$ crystallin protein to study biophysical protein folding properties in E.coli cells.

2018-2019 Project Title: Isolation and characterization of protease producing bacteria Master from soil,

Student Masters Dissertation in Cell and Molecular Biology, Techno India University, India, Designed the project, conducted experiments, analysed data and wrote a manuscript that resulted in first-author publication.

Technical Skills

Cell culture Mammalian cell culture; thawing, freezing, splitting and maintenance of cell lines (Human Neuroglioma H4, Human Embryonic Kidney 293)

Molecular Molecular cloning and transformation, NEBuilder HiFi DNA Assembly Cloning, Site Biology Directed Mutagenesis, Genomic and Plasmid DNA isolation, purification and quantification, Transfection

Immunology Magnetic-activated cell sorting (MACS), Fluorescence activated cell sorting (FACS)/flow cytometry, enzyme-linked immunosorbent assay (ELISA)

Biochemistry Agarose Gel Electrophoresis, Polymerase Chain Reaction (qPCR, RT PCR), Protein estimation and Western blotting, SDS-PAGE, Chromatography

Microbiology Biochemical tests for bacterial identification, Minimum Inhibitory Concentration assay, Gram staining, Fermentation test, Antibiotic sensitivity test (Disc Diffusion Method)

Bioinformatics SnapGene, PrimerQuest (IDT), UCSC genomebrowser, STRING database, Microsoft Office, Statistical Data analysis

Publications

Isolation of Protease Producing Bacteria from Soil and Characterization of the Protease, Int. J. Curr. Microbiol. App. Sci. 9(3): 2974-2983., Chakraborty A, Karmakar S., 2020