



MANORCHITA TARAPHDER
 Contact No.: 9903019120
 Email: manorchita@gmail.com

Residential Address: 207, Bangur Avenue, Block – B, Kolkata, PIN: 700055, West Bengal, India
Date of Birth: 27th June 1997
Nationality: Indian
Languages Known: English, Hindi, Bengali and German(Basic)

CAREER OBJECTIVE

To work in a position where I can utilise my domain knowledge and skills and also acquire experience by contributing to upcoming technologies.

ACADEMIC PROFILE

Year	Examination Passed	UNIVERSITY/ BOARD	Institution / School, City	Percentage/ Grade
2022	M. Tech (Biotechnology) – Final Year	MAKAUT	Heritage Institute of Technology, Kolkata	9.34 (CGPA)
2020	B. Tech (Biotechnology)	Amity University	Amity University, Kolkata	8.00 (CGPA)
2016	Class XII	CBSE	Delhi Public School, Ruby Park Kolkata	83%
2014	Class X	WBBSE	Loreto Day School, Sealdah Kolkata	84.8%

ACADEMIC PROJECTS

1	<p>Project Name- Isolation and characterization of Cellulase producing bacteria from soil Location-Heritage Institute of Technology, Kolkata Year-2022-Ongoing Objective- Screening of Cellulase producing bacteria, Single colony , performing various Biochemical tests, Enzyme Activity, Kinetic graphs, Growth optimization of production media and enzyme, protein purification</p>
2	<p>Project Name(review)- Drug Development against Parkinson’s Disease by inhibition of Alpha-Synuclein protein aggregation: In-silico Approach Location- Heritage Institute of Technology, Kolkata Year-2021 Objective- To develop a potent inhibitor (ligand) drug which will bind to the active site of Alpha- Synuclein protein and prevent it from aggregation. This protein is obtained from the gene SNCA.</p>
3	<p>Project Name- Role of Transcription Factor in Drosophila Development (in silico) Location- Amity University, Kolkata Year-2020 Objective-The role of the Transcription factors, in the development of Drosophila Melanogaster ,their various interacting protein partners in the different developmental stages as well as the Phosphorylation which is a Post Translation Modification were done. Phylogenetic Tree construction.</p>
4	<p>Project Name-Extraction and Purification of Biopolymer from <i>Bacillus Licheniformis</i> Location- Indian Institute of Technology, Kharagpur (IIT KGP); Supervisor: Prof. Ramkrishna Sen (HOD) of Biotechnology Dept in BBD Lab, IIT KGP Year-2019 Objective- In this project my aim was to purify the Biopolymer extracted from <i>Bacillus Licheniformis</i>. Various purification methods like Dialysis, Ion exchange chromatography, Deproteination and other steps were performed. This was followed by Phenol Sulphuric Acid Assay for Carbohydrate Analysis.</p>
5	<p>Project Name- Anemia in Pregnancy Analysis Location- SVS Marwari Hospital, Kolkata Year-2018 Objective- To show that anaemia during pregnancy is still a major health problem in our country, where the patients need to be provided with iron and folate supplements. Increased risk during pregnancy is due to increased maternal iron needs and demands from the growing foetus and placenta;</p>

CERTIFICATIONS

1. **Introduction to Metagenomics**, Pine Biotech - Applied Learning. Applied Analytics
2. **Coronavirus 2019 (COVID-19) Course**, AACC Learning Lab for Laboratory Medicine
3. **Introduction to Bioinformatics**, Pine Biotech - Applied Learning. Applied Analytics
4. **DNA- Molecular Structure and Replication**, Udeemy
5. **Cell Culture Equipments**, Merck- a CSIR IMTech Initiative

CONFERENCES/ SEMINARS ATTENDED

1. 3rd International Conference on Translational Research - (Application in Human Health and Agriculture)
2. Premas Biotech by Dr. Prabuddha Kundu
3. Next Generation Sequencing (NGS) online course on Pine Biotech

EXTRA-CURRICULAR FOOTPRINT

1. Vocalist (Indian Classical Music)
2. Avid Reader of Non-Fiction (Science) and Fiction contents

EXTRA-CURRICULAR ACHIEVEMENTS

1. District Level Winner in National Children's Science Congress. (2013)
2. Zee Quiz participation in National Level (2012)
3. Winner in the Calcutta School of Music Competition(vocal) (2012)
4. Runner-Up in NIFT solo singing intercollege competition. (2017)
5. 1st Position in Talent Sangram 2020 by Rotaract for Music (2020)

TECHNICAL SKILLS

- Python (Basic),C++, Hadoop (Basic), Ms Excel, Ms Word, MySQL, Mat Lab
-