

### **BIO-DATA**

NAME: **SANJANA GHOSH**

DATE OF BIRTH: 21st January, 1993

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### **Education Profile:**

Currently working as a PhD Research Scholar, under the guidance of Dr Sudeshna Shyam Choudhury, Dr Ayan Chandra and Dr Arup Kr Mitra at Department of Microbiology, St.Xavier's College(Autonomous), Kolkata.

### **ACADEMIC DETAILS:**

EXAM PASSED	YEAR	INSTITUTION STUDIED	BOARD/ UNIVERSITY
B.Ed.(LIFE SCIENCE)	2018	SAMMILANI TEACHERS' TRAINING COLLEGE	WBUTTEPA
M.Sc BOTANY	2016	SCOTTISH CHURCH COLLEGE	CALCUTTA UNIVERSITY
B.Sc BOTANY	2014	SHRI SHIKSHAYATAN COLLEGE	CALCUTTA UNIVERSITY
ISC	2011	G.D BIRLA CENTRE FOR EDUCATION	Council for Indian School Certificate Examinations, New Delhi
ICSE	2009	G.D BIRLA CENTRE FOR EDUCATION	Council for Indian School Certificate Examinations, New Delhi

**Special paper (M.sc):** Cell biology, Molecular genetics and Plant biotechnology

**Dissertation topic (M.sc):** Study of callus induction media of few varieties of *Oryza Sativa*

### **TRAINING ACTIVITIES:**

1. Teachers training internship (B.Ed. 3<sup>rd</sup> semester) from Andrews High School, Kolkata
2. A 90 days project training during M.Sc on PLANT TISSUE CULTURE under the guidance of Dr Aryadeep Roy Choudhury at St.Xavier's College,(Autonomous) Kolkata.
3. Basic computer course training from DOEACC SOCIETY publications.

### **WORK EXPERIENCE**

- Presently working as a Part time Lecturer in the department of Environmental Studies, B. Com (Morning) department of St. Xavier's College (Autonomous) Kolkata and of St. Xavier's College (Autonomous) Kolkata, Raghobpur Campus
- Working as a guest lecturer in the department of Botany, Shri Shikshayatan College, from July 2018
- Worked as a resource person of the syllabus of Botany for the UGC Educational channel made by EMMRC, St. Xavier's College (Autonomous) Kolkata.

### **WORKSHOPS AND SEMINARS**

- Organized an International Seminar titled International Conference on Climate Change: Global Cooperation organized by St. Xavier's College (Autonomous), Kolkata on 26<sup>th</sup> and 27<sup>th</sup> August,2022
- Organized an International Webinar on "Climate Change and Forced Movement" at St. Xavier's College (Autonomous), Kolkata in October,2021
- Participated in Faculty Development Program under DBT Star College Scheme of St. Xavier's College (Autonomous), Kolkata in September,2021
- Organized a webinar on "Wasteland to Productive Land through Organic Amendment" at St Xavier's College (Autonomous), Kolkata, Raghobpur Campus in March,2021
- Organized a seminar and workshop on "Potential use of solid waste in agriculture" at St Xavier's College (Autonomous), Kolkata, Raghobpur Campus in February,2020
- Organized a webinar titled "Revisiting Epidemics and pandemics in India," at St Xavier's College (Autonomous), Kolkata, Raghobpur Campus in July,2020
- Participated in workshop titled "Phenomenon of Religion," conducted by Department of Inter religious studies (DIRS), St. Xavier's College, Bombay, from 7th July -31st July, 2020

### **Paper Presentation**

- Presented a paper entitled Agriculture post India's Independence: A journey towards self-sufficiency at Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIS) on 14<sup>th</sup> August,2022.
- Isolation and characterization of lead tolerant pgp bacteria from rhizosphere of *Cucurbita maxima* of reclaimed wetland soil at Neotia University on April,2022
- Presented a poster entitled MICROBIAL METAGENOME ANALYSIS OF *Cucurbita* sp RHIZOSPHERE FOR A SUSTAINABLE AGRICULTURE IN EAST KOLKATA WETLANDS in an International Seminar titled International Conference on Climate Change: Global Cooperation organized by St. Xavier's College (Autonomous),Kolkata on 26<sup>th</sup> and 27<sup>th</sup> August,2022
- Presented a paper entitled "Invincible duo in mitigation of lead in the *Cucurbita maxima* rhizosphere in east kolkata wetland backdrop" in Bangladesh on 19<sup>th</sup> and 20<sup>th</sup> October, organized by Khulna University, Bangladesh.
- Presented a paper entitled "COMPARATIVE METAGENOMIC ANALYSIS OF *Cucurbita maxima* and *Zea mays* in RECLAIMED WETLAND SOIL OF EAST KOLKATA WETLAND" in Calcutta University on 28<sup>th</sup> and 29<sup>th</sup> December,2022,
- Presented a paper entitled "LINGERING EFFECT OF PGPR AND NUTRIENT RECYCLING IN AGRICULTURAL CONGENIALITY OF EAST KOLKATA WETLANDS" in Indian Science Congress on 2<sup>nd</sup>-5<sup>th</sup> January,2023 .
- Presented a paper entitled "ISOLATION OF A NOVEL BACTERIAL STRAIN AND ITS CORRELATION WITH COVID DISSEMINATION IN EAST KOLKATA WETLANDS" in Botanical Science Congress on 23<sup>rd</sup>-25<sup>th</sup> March,2023, organized by Calcutta University.

### **Resource Person**

- Presented a paper entitled Agriculture post India's Independence: A journey towards self-sufficiency at Maulana Abul Kalam Azad Institute of Asian Studies (MAKAIS) on 14<sup>th</sup> August,2022.
- Delivered MOOC Lectures on Environment Sociology,2023

## **PUBLICATIONS**

- ❖ Communicated a book chapter entitled “An Insight To Microbial Metagenome in Wetland Ecosystem. “ for the book Bacterial Metagenomics in Industrial Wastewater Treatment by DE Gruyter
- ❖ Communicated a book chapter entitled “Autotrophic nitrogen removal technology: A boon for Kolkata Ramsar Sites” for the book Annamox process: Technological advancement and application in Industrial Waste water plant(Elsevier)
- ❖ Published a book chapter entitled “ Extremophilic pigments in Eukaryotic microbes: A tool for survivability” for the book “ Extremophiles: A Paradox of Nature with Biotechnological Implications by DE Gruyter
- ❖ Communicated a book chapter entitled “ Prevention and control of microbial biofilms on medical devices “
- ❖ Communicated a paper entitled “Microbial metagenome analysis of *Cucurbita* sp rhizosphere for a sustainable agriculture in EAST KOLKATA WETLANDS” in Journal of Environment and Socio-biology

## **Sequences submitted to NCBI**

- Soil sample Metagenome of *Zea mays* (Reclaimed Wetland of East Kolkata) Soil Metagenome, Submission Id: SUB10393473, BIOPROJECT ID: PRJNA764188, BIOSAMPLE: SAMN21474479, SRA: SRR15931637, SRX: 12221735, Published on: 16/10/2021
- Soil Sample Metagenome of *Cucurbita maxima* (Reclaimed Wetland of East Kolkata) Soil Metagenome, Submission Id: SUB10889729, BIOPROJECT ID: PRJNA793422, BIOSAMPLE: SAMN24537899, EXP.: SRR17395637, Release date: 31/01/2022.
- Soil sample Metagenome of *Zea mays* (Intercrop) (Reclaimed Wetland of East Kolkata) Soil Metagenome, Submission Id: SUB11488432, BIOPROJECT ID: PRJNA838768, BIOSAMPLE: SAMN28462514, SRA: SRR19239528. Published on 17/5/2022.
- Soil Sample Metagenome of *Cucurbita maxima* (Peak) (Reclaimed Wetland of East Kolkata) Soil Metagenome, Submission Id: SUB11494487, BIOPROJECT ID: PRJNA839190, BIOSAMPLE: SAMN24537899, EXP.: SRR19261839, Published on: 18/5/2022
- Soil sample Metagenome of *Zea mays* (Peak) (Year 2)(Reclaimed Wetland of East Kolkata) Soil Metagenome, Submission Id: SUB12099395, BIOPROJECT ID: PRJNA884094, BIOSAMPLE: SAMN31008114, SRA: SRR21700514. Published on 27/9/2022

- Soil sample Metagenome of *Zea mays* (Intercrop) (Year 2)(Reclaimed Wetland of East Kolkata) Soil Metagenome, Submission Id: SUB12099435, BIOPROJECT ID: PRJNA884095, BIOSAMPLE: SAMN31008163, SRA: SRR21700543. Published on 27/9/2022
- *Bacillus velezensis* strain DPPB\_SGAM\_SXC 16S ribosomal RNA gene, partial sequence. ACCESSION ON384543. Published on 30/4/2022
- *Cupriavidus necator* strain DCPA\_SGAM\_SXC 16S ribosomal RNA gene, partial sequence. ACCESSION ON384541. Published on : 30/4/2022

### **AWARDS**

- Won the best paper presentation award in Research scholar category in Khulna University, Bangladesh.
- Won the best paper award in Calcutta University,2022
- Won the best paper award in Microbiology section of 1<sup>st</sup> Botanical Congress, held at Calcutta University,2023

### **ACHIEVEMENTS:**

- Qualified RET Examination, 2020 conducted by St. Xavier's College (Autonomous), Kolkata
- First class first in M.Sc. in 3<sup>rd</sup> semester and overall 2<sup>nd</sup> in rank
- Received medal and certificate of merit from Shri Shikshayatan College
- Several subject awards in school.