

ARADHANA JANA

BIOTECHNOLOGY STUDENT



CONTACT

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- Bengaluru, KA

EDUCATION

JAIN - School of Sciences

M.Sc. Biotechnology
CGPA: 7.55
2022-Present

The Oxford College of Science

B.Sc. Biotechnology
Percentage: 70.3%
2017-2021

Central Academy

Senior Secondary (XII)
Percentage: 75.8%
2015-2017

Central Academy

Primary and Secondary Schooling
CGPA: 9.6 (Class - X)
2003-2015

SOFT SKILLS

- Creativity
- Proactive Communication
- Teamwork
- Adaptability
- Resilience
- Critical thinking

DOMAIN SKILLS

- Molecular Biology, Cell and Tissue Culture Techniques
- Bioinformatics and Data Analysis
- Protein, Genomic Purification and Analyses
- Immunotechniques, Biochemistry and Bioprocessing
- Regulatory Compliance, Scientific Writing and Communication

ABOUT ME

A motivated and dedicated biotechnology professional with a passion for leveraging scientific advancements to improve human health. With a strong academic background in biotechnology and hands-on experience gained through internships, I possess a solid foundation in molecular biology techniques, data analysis, and laboratory practices. I am committed to contributing my skills and knowledge to drive innovation and make a positive impact in the field of biotechnology.

EXPERIENCE

Internship in Basics of Animal Cell Culture and MTT Assay

Stroma Biotechnologies Pvt. Ltd.

10th - 25th June 2023

- Prepared animal cell culture media and performed a sterility check on it.
- Thawing of HeLa cells was conducted and their total cell count and viability was checked.
- Trypsinization, Subculturing, Karyotyping and Cryopreservation of HeLa cells was carried out.
- MTT Assay - Exposure to an Anti-cancer drug for 24 and 48 hours, later checked for activity.
- Performed isolation of mononuclear cells from peripheral blood, total cell count, viability check and their culture.

Scientific Writing

Since October 2022

Under Review:

- Unnati, G. M., Bhattacharjee, S., Paul, A., **Jana, A.**, Deepak, R., Chen, L., Shen, G., Mishra, N. (2023) In-silico genome-wide identification and functional characterization of scaffolding and regulatory subunits of Protein phosphatase 2A in *Camellia sinensis*, **Genome**
- Deepak, R., Bhattacharjee, S., **Jana, A.**, Unnati, G. M., Paul, A., Shen, G., Mishra, N. (2023) In-silico identification and analysis of ABC transporters superfamily in *Camellia sinensis*, **PloS One**
- Lochana P*, Aradhana Jana*, Dr. Salamun D E, Synergistic effects of millets and the gut microbiota: A Review, **Vegetos** (*equal contributions)

■ TRAININGS AND CERTIFICATIONS

Poster Presentation

International Conclave on Millets "MILICON - 2023"

12th and 13th September 2023

- Paper titled - "Synergistic effects of millets and the gut microbiota: A Review"
- Co-author: Lochana P and Corresponding author: Dr. Salamun D E

Recombinant DNA Technology and Genetic Engineering - Hands-on Training

E-Cell IIT Kharagpur and Makeintern Zonal Championship

25th - 27th July 2023

- Media preparation
- Foreign DNA with gene of interest preparation
- Competent cell preparation
- Transformation
- Plasmid isolation
- Primer design using computational tools

HPLC Hands- on Training Program

JAIN School of Sciences - Dr. Salamun D E

28th June - 5th July 2023

- Standard preparation
- Sample preparation
- Analytical methods: Chromatographic parameters, Calibration plots, Method validation

Immunology Talks to Public Health on 'International Immunology Day'

Manipal Institute of Regenerative Medicine

29th April 2023

- Interesting and interactive sessions with Experts focusing on Immunotherapies, Advanced tools and technologies to understand immunobiology and Building blocks to pursue Novel Drug Development - Novel Immuno Oncotherapies.
- Instrumentation and working of Flow cytometer along with other instruments used in the facility.
- Won 1st place in the Quiz Competition.