

Archana Kumari Shaw, M.Sc.

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ACADEMIC ACHIEVEMENTS:

COURSE	BOARD/ UNIVERSITY	NAME OF SCHOOL/COLLEGE	YEAR OF PASSING
SECONDARY	Central Board Of Secondary Education New Delhi. (CBSE)	Kendriya Vidyalaya No. 1, Ishapore	2012
HIGHER SECONDARY	Central Board Of Secondary Education New Delhi. (CBSE)	Central Model School, Barrackpore.	2014
B.Sc. (Honors) In Biotechnology	Maulana Abul Kalam Azad University Of Technology (Formerly, West Bengal University Of Technology, (WBUT))	Institute Of Genetic Engineering.	2017
M.Sc. In Biotechnology	Madurai Kamaraj University, Madurai, Tamil Nadu.	School Of Biotechnology, MKU.	2019

PROJECT/RESEARCH EXPERIENCE:

- Currently working as a **Project Assistant / Technician** under the scheme of **Wellcome Trust – DBT Alliance, India** at **Indian Institute of Science Education and Research, Kolkata (IISER-K)** under the supervision of **Prof. Jayasri Das Sarma** and guidance of **Dr. Mahua Maulik** since January 2nd 2020.
- M.Sc. degree dissertation entitled **“Development of RAPD and ISSR markers for precise Identification of certain potential germplasm of Finger millet [Eleusine coracana (L.) Gaertn.]”** Under the guidance of **Dr. D Ganesh** (Head and Chairperson, School of Biotechnology, MKU).
- Carried out **2-months internship project work** entitled **“Objective Characterization of Human Second Heart Sound in Normal and Patients of Systemic Hypertension”** at **Department of Physiology, Medical College, Kolkata;** recognized by the **Medical Council of India** under guidance of **Dr. Arnab Sengupta** (HOD, Dept. of Physiology, Medical College, Kolkata).
- Bachelor’s degree dissertation project on **Plant Tissue Culture** on the topic, **“Shoot Tip Propagation of Ashwagandha (Withania Somnifera) – A Biotechnological Preservation for an Important Medicinal Plant”** under the supervision of **Dr. Madhumita J. Mukhopadhyay**.
- Obtained **15 –Day training on “Quality Control of Dairy Products”** from **Galaxy Educare Concepts Private Limited, Biotechnology center, ISO 9001:2008 Certified Company and Member of BICL.**

TECHNICAL & COMPUTATIONAL SKILLS:

- **Primary cell culture-** Establishment of mixed glial cultures from neonatal mice brains and enrichment for neuronal cells namely, astrocyte and oligodendrocytes.
- **Continuous cell culture-** Maintaining several secondary cell lines from mouse and human background.
- **In-vivo techniques** – Intraperitoneal and Intracranial inoculation, Mice dissection, Tissue harvesting (Isolation of Spinal cord, Brain, Optic Nerve & Liver) and processing, paraffin sectioning and Cryo-sectioning for Immunohistochemistry. RNA/ protein isolation from tissues C57/BL6 mice model.
- **Molecular Biology-** RNA isolation, Protein Extraction & preparation from animal tissue and cells, Plasmid DNA Isolation and Genomic DNA Isolation, DNA Barcoding (using ISSR, RAPD based markers), Polymerase Chain Reaction (PCR), Southern Blotting and Westernblotting.
- **Plant Cell Culture Techniques** like Micro-propagation, Hydroponics, Agarophonics, and Agrobacterium mediated transformation, Gus staining.
- **Cell Biology tools and techniques-** Cell Culture techniques (Cell thawing, Media preparation, Media change, Cell Passaging & Splitting, Trypsinization, Cell Freezing/Cryopreservation), Viral Infection in Cells, Immunodiffusion, Immunofluorescence on cells.
- **Microscopic techniques-** Epifluorescence microscopy and basics of microscopy.
- **Bioinformatics and software skills-** Image J, Microsoft office, MS PowerPoint & Excel Adobe photoshop, BLAST, Internet basics.
- Trained in handling simple laboratory instruments pipettes, pH meters, Colorimeter, Spectrophotometer, Basic Microscopy, Dry Bath, Laminar Air Flow, Centrifuge, Autoclave, Electrophoresis Including SDS – PAGE, Chromatographic techniques. Maintenance of Animal Colony, Proper cleaning and maintenance of cell culture-related biosafety cabinets, incubator, and apparatus.

SEMINARS/WORKSHOPS/CONFERENCES ATTENDED:

- Participated in Four Day XXXIX Annual Meeting of Indian Academy of Neurosciences (IAN), Theme: "NeuroGlia in Health and Disease" organized by Indian Institute of Science Education and Research Kolkata, Netaji Subhas Open University & CSIR-Indian Institute of Chemical Biology from December 16th to December 19th, 2021.
- Four Day International Bilateral Indo-US Webinar on COVID Biology dated August 16-19, 2020 organized by Indian Institute of Science education and Research Kolkata, India in collaboration with IISc, Bangalore, India, University of Pennsylvania, and the University of Colorado, School of Medicine, USA.
- Poster presentation entitled "Development of RAPD and ISSR markers for precise Identification of certain potential germplasm of Finger millet [Eleusine coracana (L.) Gaertn.]" at Indian International Science Festival (IISF) in Two days "Women Scientist & Entrepreneurs' Conclave" (WESC) held at Biswa Bangla Convention Centre, Kolkata, West – Bengal on (07 to 08 Nov 2019).

- *One Day National Conference on “Advances in Clinical Genomics” (ACG– 2019) held at Aravind Medical Research Foundation, Madurai on 9th February 2019.*
- *One day Workshop on “DBT- FOLDSCOPE WORKSHOP – 2018” under the DBT Foldscope initiative by Department of Biotechnology, Govt. of India, New Delhi and Organized by School of Biotechnology, Madurai Kamaraj University on 3rd December 2018.*
- *Two Day National Conference on “Innovations in Biotechnology” (NCIB - 2017) held on 14th & 15th December 2017 at School of Biotechnology, Madurai Kamaraj University, Madurai – 21.*
- *One Day International Seminar on “Frontiers in Translational & Regenerative Biology”, Organized by Immunology and Regenerative Medicine Research Unit, Department Of Zoology, University of Calcutta, Kolkata – Supported by Council of Scientific & Industrial Research (CSIR), India.*
- *One Day International Seminar on “Current Thoughts in Cell Sciences”, Organized by Immunology and Regenerative Medicine Research Unit, Department of Zoology, University of Calcutta, Kolkata – Supported by Science and Engineering Research Board (SERB), DST.*

HOBBIES:

Reading, Painting, Photography, Cooking, Playing indoor & outdoor games, travelling and exploring new things.

STRENGTHS:

Hardworking with Positive attitude, Flexibility and Adaptability, Friendly & Honest, Dedicated and responsible towards work, Self-motivated.

REFERNCES

1.	Dr. Madhumita J. Mukhopadhyay	<i>Associate Professor & Head, Department of Biotechnology, Institute of Genetic Engineering, Kolkata. (Affiliated under Maulana Abul Kalam Azad University of Technology, West Bengal, India) Contact E-mail: mita_jm@yahoo.com</i>
2.	Dr. Arnab Sengupta	<i>Professor & HOD, Department of Physiology, Medical College and Hospital, Kolkata, West Bengal, India. (Recognized by the Medical Council of India) Contact E-mail: arnabseng@gmail.com</i>
3.	Dr. Sankar Natesan	<i>Professor & Head, Department of Genetic Engineering School of Biotechnology, Palkalai Nagar, Madurai Kamaraj University, Madurai, Tamil Nadu, India – 625 021. Contact E-mail: sankar.biotech@mkuniversity.org</i>
4.	Dr. P. Gopal	<i>Assistant Professor, Epigenomics & RNA Biology Laboratory, Department of Plant Biotechnology, School of Biotechnology, Madurai Kamaraj University, Madurai, Tamil Nadu, India – 625021. Contact E-mail: pgopal.biotech@mkuniversity.org</i>
5.	Dr. G. Sridevi	<i>Assistant Professor, Department of Plant Biotechnology, School of Biotechnology, Madurai Kamaraj University, Madurai, Tamil Nadu, India – 625021. Contact E-mail: ganapathisridevi@yahoo.com</i>

DECLARATION: *I hereby declare that the above information given by me is true to the best of my knowledge.*

Date: 10-01-2022

Archana Kumari Shaw.

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