

MOUMITA MUKHERJEE



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7. Date of birth: 02/03/1990
8. Married/Unmarried/Other: Married
9. Academic record (from matriculation onwards):

Sl. No.	Degree	Period of Study From-To	Board/University/Institute	Subject	Marks (%)
1.	Madhyamik	2006	West Bengal Board of Secondary Exam (WBBSE)	General	65
2.	Higher Secondary	2008	West Bengal Council of Higher Secondary Examination (WBCHSE)	Bio-Science	81
3.	B.Sc. (Hons)	2011	Lady Brabourne College	Botany	57
4.	M.Sc.	2013	Calcutta University	Plant Physiology (Agriculture)	7.24 (CGPA)

10. Whether passed examinations conducted by NET/GATE/UGC/ICAR Fellowship: **NO**

11. Past Experience:

Worked as as DST (WB)-JRF in the project “Changes in the pattern of irrigation cultivation agriculture and livelihood of rural Bengal: The experience of Jamalpur Block of Bardhaman” at Indian Statistical Institute, Kolkata (PI- Prof. Debasis Sengupta, Applied Statistics Unit, ISI) from September 29th, 2014 to August 29th, 2018.

12. Technical expertise:

Molecular Biology and Microbiology:

- PCR, Agarose gel electrophoresis, transformation, cloning, sequencing and sequence analysis.
- Microbiological techniques: enrichment, isolation, identification and characterization of bacteria.
- Screening of microorganisms for antibiotic production
- Analysis of growth promoting factors (siderophore, ammonia production, IAA production, ACC deaminase production, HCN production, antimicrobial activity) of micro-organisms.

Microscopy:

- Sample preparation for Scanning electron microscopy
- Phase contrast microscopy
- Standard light microscopy

Computational:

Adobe Photoshop, R programming, MS-office, Sigma Plot, End Note, Image J, SPSS.

Biostatistics:

ANOVA, Standard deviation, Standard error, t test, Chi square test and R programming

AWARDS & RECOGNITION

- Association of Science & Society for poster presentation.
- UGC Sponsored National Level Seminar in collaboration with Botanical Survey of India & Zoological Survey of India.
- Hundred years of science in India organised by West Bengal State Council of Science & Technology & Department of Science & Technology, Govt. of West Bengal for paper presentation.
- National Symposium on “In Quest of a Second Green Revolution” in University of Calcutta
- UGC sponsored seminar on “Changing Facet of Microbiology in 21st Century”, Lady Brabourne College.
- Award of Excellence for paper presentation at the 20th West Bengal State Science & Technology Congress 2013.

PROFESSIONAL EXPERIENCE

- Presence and calibration of arsenic content in rice, a project initiated by NBRI, Lucknow in collaboration with Rice Research Station, Chinsurah, Hooghly [Aug 11 to May 13]
- Effects on Micronutrient content of different Rice seeds due to Arsenic contamination.
- Study on Rice genotypes.
- Screening and development of special rice varieties.
- Seed distribution in West Bengal
- Field visit

PROJECT

- M.Sc. Project [Jan 13 to May 13]
A dissertation entitled “Comparative Studies on Agromorphic, Physicochemical & Grain Quality Parameters of few popular HYVs along with their SUB-I derivatives” under direct supervision and guidance of Dr. Bijan Adhikari, Assistant Botanist, Rice Research Station, Chinsurah, Hooghly.
- Survival of rice crop against the conditions of submergence.
- Preparation of SUB-I derivatives of HYVs of rice by introgression of Sub 1 gene from Flood tolerant rice variety.
- Comparative study on the agro-morphic traits, physical grain quality parameters, milling traits and cooking quality parameters.

PUBLICATIONS

- **“Arsenic affects Micronutrient content of different Rice seeds grown in contaminated areas of West Bengal”**, Bijan Adhikari, Moumita Mukherjee, M. K Bhowmick, R.D. Tripathi, S. Dwivedi and D. Chakraborty ; published in **SATSA Mukhupatra – Annual Technical Issue 17**, February 2013.
- **“Agro-morphic Characterisation and DUS Testing of Aromatic Rice Varieties of West Bengal”**, Moumita Mukherjee and Bijan Adhikari; published in **Book of Abstracts during a National Symposium organised by The Agricultural Society of India**, February 2013.
- **“Screening and Development of special rice varieties for alleviating iron deficient Anemia (IDA)”**, Bijan Adhikari, Moumita Mukherjee ; published in **20th West Bengal State Science and Technology Congress Journal**, March 2013.
- **“Low Grain Arsenic Rice Genotypes: Growth and Yield Characteristics”**, Bijan Adhikari, Moumita Mukherjee, R.D. Tripathi, S. Dwivedi, D. Chakraborty and C.S. Nautiyal; published in **Management of Arsenic Problems of Rice**, a technical bulletin by Department of Agriculture, Government of West Bengal and CSIR-National Botanical Research Institute, Lucknow, December 2013.
- **“Iron Rich Rice and Elimination of Iron Deficient Anemia”**, Moumita Mukherjee, Bijan Adhikari, K.K. Bhadra; published in **Bijh Barta**, a publication of **Seedsmen Association of Bengal**, December 2013.