

Curriculum Vitae

Name **Sharmila Chakraborty(Saha)**

Permanent address 64/4C/1A, Beliaghata Main Road.
Kolkata- 700 010.

Date of Birth 27th day of February, 1972.

Nationality Indian.

Present status

Associate Professor

Department of Microbiology

Sammilani Mahavidyalaya

EM Bypass, Baghajatin.

Kolkata-700094

West Bengal

Educational Qualifications

- B.Sc with Zoology (Hons) from Presidency College, Kolkata. in 1994(Rank 1st)
- M.Sc in Biophysics, Molecular Biology and Genetics, University of Calcutta in 1996(Rank 5th)
- Ph.D (Studies on Trinucleotide repeat expansion Related disorder), 2004
Dept. of Biophysics, Molecular Biology and Genetics, University of Calcutta

Experience

19 Years of under graduate teaching in Microbiology and Molecular Biology (August 2001- till date).

Teaching interests and current courses taught

- Molecular biology
- Cell biology
- Microbial genetics
- Biochemistry

- Biophysical Chemistry
- Biostatistics

Research Experience

- **Doctoral work** on “ Studies on Trinucleotide repeat expansion Related disorders” under Prof. U. Dasgupta, Department of Biophysics, Molecular Biology and Genetics of Calcutta University from June 1997- April 2003.
- Worked as a summer trainee under Dr. Pratima Sinha of Bose Institute, Kolkata from June 1995 to August 1995, on the project entitled “Cloning of MCM 17 gene of *Saccharomyces cerevisiae*.”
- Completed UGC Minor Research Project entitled “**Study of Antimicrobial properties of Metal Complexes**” no. PSW-207/13-14 (ERO) (2014-2016).
- Present research interests focus on studying the **antimicrobial properties of silver and gold nanoparticles** and biosynthesis of **nanoparticles from microorganisms** for assessment of their **potential therapeutic** uses.

Publications

Original articles

1. Fragile X Syndrome in Calcutta, India.
S. Saha, P. Karmakar, C. Chatterjee, D. Banerjee, S. Das, U. B. Dasgupta.
Annals of Clinical Biochemistry 2001, 38 : 264 – 271.
2. Fragile X Syndrome. a case report of a family.
C. Chatterjee, D. Guha, S. Das, S. K. Singh, U. Dasgupta, S. Saha, D. Banerjee.
Indian Journal of Pathological Microbiology 2001, Oct 44(4), 499-502.
3. Haplotype Analysis at the FRAXA Locus in an Indian Population.
S. Saha Chakraborty, Bama Charan Mondal, S. Das, K. Das and U.B. Dasgupta.
American Journal of Medical Genetics Part A, 2008, 146A:1980–1985.
4. Synthesis, Crystal structure, antimicrobial screening and density functional theory calculation of Nickel (II), Cobalt (II) and Zinc(II) mononuclear Schiff base complexes.

Saha S, Sasmal a. Roychoudhury C, Pilet G, Bauza A, Frontera A, **Chakraborty S**, Mitra S. *Inorganica Chimica Acta* (2015) 211-220.

5. *Butea monosperma* bark extract mediated green synthesis of silver nanoparticles: characterization and biomedical applications.

Pattanayak S, Mollick MSR, Maity D, **Chakraborty S**, Dash SK, Chattopadhyay SR, Chattopadhyay D, Chakraborty M. *Journal of Saudi Chemical Society*. 21(6)
doi/10.1016/j.jscs.2015.11.004

6. In situ fluorescence of lac dye stabilized gold nanoparticles; DNA binding assay and toxicity study.

Sutanuka Pattanayak, **Sharmila Chakraborty**, Md. Masud Rahaman Mollick, Indranil Roy, Samita Basu, Dipak Rana, Samiran Sona Gauri, Dipankar Chattopadhyay and Mukut Chakraborty. *New Journal of Chemistry*. 2016, **40**, 7121-7131

7. Degradation of Methyl Parathion, a common pesticide and fluorescence quenching of Rhodamine B, a carcinogen using b-D glucan stabilized gold nanoparticles.

Sutanuka Pattanayak, **Sharmila Chakraborty**, Suman Biswas, Dipankar Chattopadhyay , Mukut Chakraborty . *Journal of Saudi Chemical Society* 22(8)
DOI: 10.1016/j.jscs.2018.02.004

Abstracts

- Study of Fragile X Mental Retardation
Sharmila Saha and Uma Dasgupta
Recent Advances in Genetic Epidemiology and Population monitoring. March 23-26, 1998
- Study of Fragile X linked Mental Retardation Syndrome
Sharmila Saha and Uma Dasgupta
Indian Journal of Human Genetics. Vol 5 (supplement) No.1, 1999
- Study of Fragile X Mental Retardation Syndrome
S.Saha and U.Dasgupta
69th Annual Meet of SBC (7-9 December) 2000
- Study of Fragile X Mental Retardation Syndrome
S. Saha and U. B. Dasgupta
Human Genome and Beyond ISHG (20-22 February) 2001
- Fragile X linked mental retardation syndrome in Calcutta

S. Saha, J. Basak, B. Banerjee, S. Das and U. B. Dasgupta
Proceedings of the International Seminar on Frontiers of Basic and Applied
Molecular Biology 2005

Seminars and work shops attended

1. Oral presentation” Fragile X Syndrome in Calcutta, India” in 51st Annual conference of Indian Association of pathologists and Microbiologists (14th February) 2002.
2. Oral presentation “Role of NGOs for awareness of sustainable developments” in UGC sponsored national Seminar on Sustainable development: looking back and looking ahead by Sammilani Mahavidyalaya on 29-30 December 2004.
3. Poster presentation in the International Seminar on Frontiers of Basic and Applied Molecular Biology 2005.
4. Participation in the National symposium on Modern Biology in health and Diseases organized by University of Calcutta in November 2008.
5. Participation in the UGC sponsored state level symposium on Expanding Frontiers of Microbiology organized by Gurudas College in November 2009.
6. Participation in the symposium on Teaching Microbiology in undergraduate Colleges organized by University of Calcutta in September 2010.
7. Participation in State level seminar on Modern trends in Spectroscopy, its application in Chemistry and Biology organized by IACs and dept of Microbiology, Maulana Azad college in February 2011.
8. Participation in Workshop on “Statistical Methodologies in Modern Biology” for teachers of undergraduate colleges organized by the Centre for Modern Biology, University of Calcutta on August 25 and 26, 2011.
9. Participation in UGC sponsored National Seminar on “Modern Biology and its impact on public health” organized by the department of Microbiology, Molecular Biology and Zoology, Dinabandhu Andrews College, Kolkata on January 18, 2012.

10. Participation in One-day Seminar on “Ashutosh Mookherjee’s Life and Contribution in the expansion of National education” organized by Ramakrishna Mission Residential College, Narendrapur on September 26, 2013.
11. Poster presentation National Seminar on “Recent developments and Research in Chemistry” organized by the department of Chemistry, West Bengal State University, Barasat on November 23, 2013.
12. Poster presentation in the 50 th Annual Convention of Chemists organized by the Indian Chemical Society and Dept. of Chemistry , Punjab University on December 4-7, 2013.
13. Participation in National Seminar on “Advancing Biology through technology and computation” organized by the department of Microbiology, West Bengal State University and Kingston College of Science, on August 22, 2014.
14. Participation in one day Seminar cum Workshop on “Microbial structuring and its role in marine and other ecosystems functioning” organized by the dept. of Biochemistry at the B. C. Guha Hall, University of Calcutta on November 15, 2014.
15. Participation in UGC sponsored National Modern Seminar on “Frontiers of Microbiology: Prospects and Challenges” organized by the department of Microbiology, Ramakrishna Mission Vidyamandir with IICB, Kolkata on November 20-21, 2014.
16. Poster presentation at the 51st Annual Convention of Chemists organized by the Indian Chemical Society and Dept. of Chemistry Kurukshetra University on December 9-12, 2014.
17. Poster presentation at the International Symposium on Polymer Science and Technology organized by the Indian Association of Science on January 23-26, 2015.
18. Participation in RUSA funded International Seminar on “Recent Trends in Microbiology” organized by the department of Microbiology, Ramakrishna Mission Vidyamandir, Kolkata on 14th January 2017.

19. Participation in National Seminar on “Advanced Nanotherapeutics” organized by School of Life Sciences, Uluberia college on 10th and 11th March 2017.
20. Participation in International Modern Seminar on “Frontiers in Biological Sciences” organized by the department of Microbiology, St. Xavier’s College, Kolkata on 30th January 2018.
21. Participation in One day International Seminar on “Life Science research in Health and Diseases” organized by the department of Microbiology, Lady Brabourne college, Kolkata on 26th February 2018.
22. Poster presentation at the International Symposium on Polymer Science and Technology organized by the Indian Association of Science on January 23-26, 2015.
23. Poster presentation at the National Seminar on Recent trends and scopes of Modern Biology sponsored by Dept. of Higher Education at Raidighi college on 27th March 2018.
24. Participation in One day Seminar on “Transformation in Higher Education-CBCS and CAS” organized by IQAC, Sammilani Mahavidyalaya, Kolkata on 29th March 2018.
25. Participation in One day National Seminar on “The Challenges and the Opportunities of Best practices in Higher Education organized by IQAC, Vijaygarh Jyotish Ray College in collaboration with NAAC, Kolkata on 15th January 2020.
26. Participation in International webinar entitled ‘Novel corona virus: Myths and Facts’ organised by IQAC in collaboration with Departments of Microbiology, Vijaygarh Jyotish Ray college, Kolkata on 10th June 2020.
27. Participation in National webinar entitled ‘Intellectual property Right in perspective of Biodiversity in India’ organised by IQAC in collaboration with Departments of Microbiology, Zoology, Physiology and Botany, Vijaygarh Jyotish Ray college, Kolkata on 25th June 2020.

28. Participation in webinar entitled 'Sir J. C. Bose Annual Memorial Lecture' organised by IQAC in collaboration with Departments of Microbiology & Botany, Raidighi College on 26th June 2020.
29. Participation in National level webinar entitled 'Covid 19: diagnosis, prospects and challenges' organised by Departments of Microbiology & Zoology, Maulana Azad College, Kolkata on 27th June 2020.
30. Participation in webinar on Covid 19 Invasion: A Challenge to Humanity organised by Department of Microbiology, T.H.K. Jain College on 29th June 2020.

Awards and Fellowships

- i) Recipient of National Scholarship Certificate 1989.
- ii) Recipient of Calcutta University Scholarship for Post Graduate studies 1994.
- iii) Qualified GATE – 1996 with a percentile score of 97.32
- iv) Qualified NET – CSIR in the year 1997

Corporate responsibilities

- Member of the Board of Studies of Microbiology, Calcutta University (2008-till date)

Actively involved in the structuring of Microbiology Advanced and General syllabus for undergraduate studies, restructuring and revision of syllabus for the new CBCS curriculum, drafting of laboratory manuals for the recent CBCS Practical Courses and involved with the modalities of Examination patterns, Assessment and Evaluation system of undergraduate studies in Microbiology, Calcutta University.

- Member of the Governing Body of the college (2014-Till date)
- Member of NAAC steering committee (2004, 2016)
- IQAC convener (2006-2012) and member of IQAC cell (present)
- BOOST Coordinator (2014-2019)

Coordinator for grant received under the scheme of **Biotechnology based opportunities offered to Science and Technology” (BOOST)**, sanctioned by the Department of Biotechnology, Govt. of West Bengal, for development of undergraduate laboratories of the departments of Bio-Sciences of the college.

- Convener of Anti ragging and Sexual harassment cell of College and Presiding Officer of ICC (Present)
- Teachers’ council secretary (2013-17)
- Involvement in several committees of the college such as Academic sub committee, Prospectus committee, Research sub-committee, Finance sub-committee, Purchase committee, Women’s forum, Library committee, Leave and service Book committee and Canteen Committee.
- Examiner and Evaluator, Department of Microbiology (undergraduate), St. Xavier’s College, Kolkata.

Membership

1. Life member of Microbiologist Society of India.