



PAROMITA BHATTACHARJEE

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Educational Qualification :

Exam Passed	Year of Passing	School/ College/Board/University	Percentage of Marks	Division
M.Sc, Zoology with Cytogenetics Special Paper	2012	Dinabandhu Andrews College. (C.U)	72.8%	1 st Class
Ph.D in Zoology	2018	Department of Zoology, University of Kalyani	-	-

Remark : Qualified in GATE-2014 (organized by IIT Kharagpur),
AIR Rank - 941.
GATE Score – 413.

Qualified in West Bengal SET-2017

- **Proficient in wet lab molecular biology technique, various laboratory dissections, fluorescence microscopy, phase contrast microscopy, etc.**

Award received : Is an owner of prestigious Indira Gandhi Single Girl Child Scholarship for meritorious single girl child student (2010-2012).

Work experiences:

- Worked as University Research Scholar (JRF and SRF) in the Department of Zoology, University of Kalyani, under supervision of Dr. Kakali Bhadra, Associate Professor, Department of Zoology, University of Kalyani.
- Worked as a research associate in a CSIR funded project from 26.01.2019- August 2019, in IICB Jadavpur, under supervision of Dr. Partha Chakraborti.
- Worked as a guest lecturer in the Department of Zoology, Rishi Bankim Chandra College for Women, Naihati, from 12.08.18- 31.12.19.
- Presently, working as a SACT-1 in the Department of Zoology, Rishi Bankim Chandra College for Women, Naihati, from 01.01.2020. Also performed duties as University question setter, external and internal examiner for undergraduate level under WBSU.

SEMINAR, CONFERENCE ATTENDED :

- Attended UGC sponsored national seminar on “Modern Biology and its Impact on Public Health”.
- Attended a DST sponsored National conference on “Advancing Biology Through Technology and Computation”, organized by Department of Microbiology, WBSU and Kingston College of Science.
- One-day national seminar on “Molecular Aspects of Human Diseases”, funded by DBT, India and organized by Department of Zoology, University of Calcutta.

- National Symposium on Biophysics and golden jubilee meeting of the Indian Biophysical Society namely, organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.
- “An Interdisciplinary Approach to Biological Sciences (IABS 2015)”, Organized by Indian Association for the cultivation of science, Kolkata.
- National Seminar Series sponsored by DST-PURSE and University of Kalyani and organized by Department of Biochemistry and Biophysics, University of Kalyani.
- DST- PURSE sponsored national seminar on “Emerging Trends in Environmental Resource Management”(March 31, 2016), Organized by Department of Ecological Studies, University of Kalyani.

POSTER PRESENTATION:

- **“Interaction of Harmalol to different nucleic acid motifs : A photophysical and calorimetric approach”** Paromita Bhattacharjee, Sarita Sarkar and Kakali Bhadra*, International symposium on Chemical Biology and Drug Discovery (ISCBDD-2016) & 3rd Annual Meeting of Chemical Biology Society (CBS), India, March 1-3, 2016.
- **“Targeting RNAs of different motifs by Harmalol : A photophysical and calorimetric approach”**, Paromita Bhattacharjee, Sarita Sarkar and Kakali Bhadra*, Frontiers in Modern Biology 2015, Organised by Department of Biological Sciences, IISER, KOLKATA (5th & 6th December 2015).
- **“DNA binding and *in vitro* cytotoxicity of harmaline, a natural beta carboline alkaloid, on human cancer cell line”**, Paromita Bhattacharjee, Tapas Ghosh, Sarita Sarkar and Kakali Bhadra* (2017), UGC- SAP Seminar, Abstract no- GB2, Department of Zoology, University of Kalyani.

ORAL PRESENTATION:

- **“Interaction of harmalol to different nucleic acid motifs & its *in vitro* cytotoxicity”** Paromita Bhattacharjee, Tapas Ghosh and Kakali Bhadra*, Department of Zoology, APC College.
- **“A study of Biophysical Interaction of Dihydro Beta-Carboline Alkaloid, Harmaline with CT DNA & its *in vitro* cytotoxicity”**, presentation no.246, Medical sciences, 2nd, Regional Science and Technology Congress (Southern region), 14th-15th December 2017, Organized by University of Kalyani and WBDST.

ABSTRACT PUBLISHED:

- **“DNA sequence specificity & cytotoxicity of harmalol”**, Sarita Sarkar, Paromita Bhattacharjee, Kakali Bhadra*, Journal of PROTEINS AND PROTEOMICS, Volume-6, 2015, ISSN:0975-8151.

PAPER PUBLISHED:

- **“Targeting different RNA motifs by beta carboline alkaloid, harmalol: A comparative photophysical, calorimetric and molecular docking approach.”** Paromita Bhattacharjee, Sarita Sarkar, Prateek Pandya and Kakali Bhadra*(2015), JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, 34, 12, 2722–2740.
- **“DNA binding and apoptotic induction ability of harmalol in HepG2: Biophysical and biochemical approaches”**, Sarita Sarkar, Paromita Bhattacharjee, Kakali Bhadra*(2016), Chemico-Biological Interactions.
- **“A Review of MicroRNA in Carcinogenesis”**, (2016) Paromita Bhattacharjee, Dr. Syamasri Mukherjee*, Int. J. Exp. Res. Rev., 8, 59-65.
- **“Binding affinity and *in vitro* cytotoxicity of harmaline targeting different motifs of nucleic acids: An ultimate drug designing approach”**, Paromita Bhattacharjee, Tapas Ghosh, Sarita Sarkar, Prateek Pandya, Kakali Bhadra* (2017), Journal of molecular recognition, 31, 1.
- **“DNA binding and *in vitro* cytotoxicity of harmaline, a natural beta carboline alkaloid, on human cervical cancer cell line”**, Paromita Bhattacharjee, Tapas Ghosh, Sarita Sarkar and Kakali Bhadra* (2017), UGC- SAP Seminar, Department of Zoology, University of Kalyani.
- **“Therapeutic potential of harmaline, a novel alkaloid, against cervical cancer cells *in vitro*: Apoptotic induction and DNA interaction study”** Paromita Bhattacharjee, Sarita Sarkar, Tapas Ghosh and Kakali Bhadra* (2018) Journal of applied biology and biotechnology, 6, 4, 1-8.
- **“Superb-selective chemodosimetric signaling of sulfide in the absence and in the presence of CT-DNA and imaging in living cells by a plant alkaloid berberine analogue”**, Gopal C Jana, Munira Khatun, Sk Nayim, Somnath Das, Anukul Maji, Maidul Beg, Anirudha Patra, Paromita Bhattacharjee, Kakali Bhadra, Maidul Hossain*(2019), New Journal of Chemistry, 43, 2368.

- **“in-vitro relationship between serum protein binding to beta-carboline alkaloids: A comparative cytotoxic, spectroscopic and calorimetric assays”**, Tapas Ghosh, Sarita Sarkar, **Paromita Bhattacharjee**, Gopal C Jana, Maidul Hossain, Kakali Bhadra* (2019) JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS,38,4.
- **“Carbon dots derived from lychee waste: Application for Fe³⁺ ions sensing in real water and multicolor cell imaging of skin melanoma cells”**, Nandan K Sahoo, Gopal C Jana, Mt. Nasima Aktara, Somnath Das, Sk Nayim, Anirudha Patra, **Paromita Bhattacharjee**, Kakali Bhadra, Maidul Hossain*(2019),Material Science and Engineering:C, 108.
- **“Synthetic carboline compounds targeting protein: Biophysical and biological perspectives”**, **Paromita Bhattacharjee**, Sarita Sarkar, Olga Shmatova, Valentine G Nenajdenko, Prateek Pandya, Kakali Bhadra* (2020), JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, 39,9,1-25.
- **“Pharmaceutical efficacy of harmalol in inhibiting hepatocellular carcinoma”**, Sarita Sarkar, **Paromita Bhattacharjee**, Tapas Ghosh, Prateek Pandya, Kakali Bhadra* (2020), Future Journal of Pharmaceutical Sciences, 6, 29.
- **“Evaluation of therapeutic role of harmaline: *in vitro* cytotoxicity targeting nucleic acids”**, **Paromita Bhattacharjee**, Paromita Sarkar, Kakali Bhadra* (2023), Journal of Asian Natural Product Research, 1-15.

WORKSHOP ATTENDED :

- National workshop on Fluorescence Microscopy organized by USIC and Department of Microbiology Bardwan University.
- **“National workshop on Animal Care, Handling And Management”**, Organized by Department of Zoology and Institutional Animal Ethics Committee, University of Kalyani, 21st -31st March, 2018.

Extra Educational Qualification : Certificate of Competency in Computing, Linux, C, C++ form NIIT, Jadavpur (2009 – 2010).