

FACULTY MEMBERS' ACADEMIC PROFILE

- 1. Name of the Faculty member:** Dr. Pritha Mandal
- 2. Designation:** Assistant Professor
- 3. Qualification:** M.Sc., Ph.D.
- 4. Specialization:** Organic Chemistry
- 5. E-mail address:** prithamandal@yahoo.com
- 6. Date of Joining in W.B.E.S.:** 04.6.2009
- 7. Date of Joining in this College:** 05.4.2019
- 8. Total Teaching experience in college level:** 13 years
- 9. Research interests:** protein structure and folding
- 10. Title of thesis (Ph.D.) with year:** “Studies on protein structure and folding using lectins as oligomeric protein systems”, (2015)
- 11. Research guidance:** NIL
- 12. Research Projects (Completed and ongoing):** NIL
- 13. List of publications:**
 - A) Published papers in Journals:**
 1. Mandal, P., and *Mandal, D. K. (2011) Localization and environment of tryptophans in different structural states of concanavalin A. *Journal of . Fluorescence*. 21, 2123-2132.
 2. Mandal, P., Molla, A. R., and Mandal, *D. K. (2013) Denaturation of bovine spleen-galectin-1 in guanidine hydrochloride and fluoroalcohols: Structural characterization and implications for protein folding. *Journal of Biochemistry* (2013) Vol. 154(6) P. 531–540.
 3. Molla, A. R and *Mandal, P. (2019) Protein Misfolding, Associated Diseases and Potential Therapeutic Routes: A Mini Review. *Asian Journal of Chemistry*; Vol. 31, No. 7, 1413-1418.
 4. Mandal, P. and *Molla, A.R. (2020) Solvent perturbation of protein structures- A Review Study with Lectins. *Protein and peptide letters*. Doi: 10.2174/0929866526666191104145511.
 5. Molla, A. R., and Mandal, P. (2020) Study of Organization and Dynamics of Multi-tryptophan Protein Molecules Utilizing Red Edge Excitation Shift Approach; *Asian J. Chem.* 32(10), 2416-2422.
 6. Mandal, P., and Molla, A. R. (2021) Inhibition of Amyloid Beta Fibrilization by Small Organic Molecules: An Implication to Therapeutic Route of Alzheimer’s Disease; *Journal of Advanced Scientific Research* 12(3), 55-60.

7. Mandal, P., and Molla, A. R. (2022) Study of Protein Structures under the Influence of Imidazolium Based Ionic Liquids; *Asian J. Chem.* 34(7), 1633-1638.

8. **Conference Proceedings:**

1. Seminar proceedings entitled "Wavelength Selective Fluorescence: A unique approach in the study of protein structure and folding" in the UGC sponsored national symposium organized by Department of Chemistry, Bidhannagar College, Saltlake on 15th and 16th September, 2016.

14. **Membership of Learned Societies/ Editorial Boards, etc.:** Member of Indian Chemical Society, and member of Indian Science Congress.

15. **Patents:** NIL

16. **Awards:** NIL

17. **Other notable activities:** NIL

18. **A) Participation in Seminars/Symposia/Conferences/Workshops:**

1. Presented poster at the National Symposium organized by Department of Chemistry. St. Xavier's College, Kolkata on 22nd and 23rd February, 2016.
2. Presented Poster at the International seminar organized by Acharya Prafulla Chandra College, North 24 parganas, Kolkata: 700131 on 6th-7th August, 2018.
3. Oral presentation at National Science Day celebration organized by Indian Chemical Society, Kolkata on 28th February, 2022.
4. Oral presentation at One day International Webinar organized by Department of Chemistry in collaboration with IQAC, Ghatal Rabindra Satabarsiki Mahavidyalaya, Ghatal, Paschim Medinipur on 8th March 2022.
5. Oral presentation at One -day international webinar organized by Vijaygarh Jyotish Ray College on 21st August, 2022.

- B) Participation in OP/RC:**

1. Orientation programme: Academic Staff College, University of Calcutta; September 03, 2012 to September 29, 2012.
2. Refresher Course in Chemistry: Academic Staff College, University of Calcutta; March 30, 2015 to April 22, 2015.
3. Interdisciplinary Refresher Course (IDC) in Chemical Sciences Engg. &

Technology; UGC-Human Resource Development Centre, University of Calcutta; August 26, 2019 to September 9, 2019.

4. Refresher Course on Recent Advancement of Material Science & Technology; UGC, HRDC, North Bengal University; 9th November 2022 to 23rd November, 2022.