

DR UJJAL GHOSH (M.Sc, Ph.D)

Designation: State Aided College Teacher (Government of West Bengal)

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Academics

- (2017) Ph.D awarded (Accordance with the UGC Regulation, 2009) from The Department of Molecular Biology & Biotechnology, University of Kalyani, Kalyani, Nadia, West Bengal.
- (2008) Master of Science in Biotechnology from Vidhyasagar University, Midnapore, West Bengal
Special Paper: Pharmaceutical & Medical Biotechnology.
- (2006) Bachelor of Science (Honours) in Biotechnology from Burdwan University, Burdwan, West Bengal.
- (2003) Higher Secondary Education from W.B.C.H.S.E.
- (2001) Secondary Education from W.B.B.S.E.

Professional Experiences

Teaching Experiences:

- **(2020-Till Date)** Three years teaching (Theory and Practical classes) at undergraduate level in The Department of Molecular Biology and Biotechnology as State Aided College Teacher (Government of West Bengal) at Kanchrapara College, North 24 parganas, West Bengal.
- **(2013-2019)** Seven years of teaching (Theory and Practical classes) at undergraduate level in The Department of Molecular Biology and Biotechnology as Guest Lecturer at Kanchrapara College, North 24 parganas, West Bengal.
- **(2010-2012)** Two years of teaching (Theory and Practical classes) at undergraduate level in The Department of Molecular Biology and Biotechnology as Guest Lecturer at Kalyani Mahavidyalaya, Kalyani, West Bengal, India.
- **Teaching Area:** Molecular Biology, Cell Biology, Genetics, Animal Biotech, Plant Biotech, Biochemistry, Developmental Biology, Immunology, RDT, Biostatistics, Microbiology, etc.

Examiner & Question Setter:

- Performed as an Examiner and Question Setter (Theory and Practical) for the B.Sc (Hons. & Pass) of the Molecular Biology and Biotechnology (Kalyani University), in various subject (Cell Bio., Dev. Bio., Genetics, Bioinformatics, RDT, Microbiology, Genomics and Proteomics etc).

Research Experiences:

- **(2016-2018) post-Doctoral research (as a senior project assistant)** in a DBT (Govt. of W.B) sponsored research project entitled “Investigation on variation in 5'UTR of utrophin-A transcripts in mouse myoblast C2C12 cells” in The Department of Molecular Biology and Biotechnology, University of Kalyani.
- **(2011-2017) Doctoral Research** in the Department of Molecular Biology and Biotechnology, University of Kalyani.
Thesis Title: “A study on post-transcriptional regulation of utrophin using indigenously developed TA cloning vector”.
- **(2010-2011) Post M.Sc. research** on Molecular Biology (Upregulation of utrophin) in the Department of Molecular Biology & Biotechnology, University of Kalyani.

Area of Research Interest

- Gene Regulation at Transcriptional as well as Translational level, miRNA, IRES activity, Utrophin Upregulation, Duchenne Muscular Dystrophy, Cloning Vector.

List of Publications**Journal:**

1. **Ghosh U**, Bose S, Ghosh T, Bandyopadhyay TK, Basu U. A monophasic solution for isolation of RNA devoid of polymerase chain reaction-detectable genomic DNA contamination. *Analytical Biochemistry*. **477**, 50-2 (2015).
2. Ghosh T, **Ghosh U**, Ghosh G, Malik D, Bose S, Basu U. Developing effective therapy for Duchenne Muscular Dystrophy (DMD): Challenges and promises. *Current Chemical Biology*, **8**, 117-31 (2014)
3. Ghosh S, Singh K, Shaw AK, Azahar I, Adhikari S, **Ghosh U**, Basu U, Roy S, Saha S, Sherpa AR, Hossain Z. Insights into the miRNA-mediated response of maize leaf to arsenate stress. *Environmental and Experimental Botany*, **137**, 96-109 (2017).

Patent:

1. **Ghosh U&Basu U**. Patent filing on “Development of a TA-cloning vector utilizing pUC19 backbone” (**Patent Application Number: 201731020824**)

Sequence Submission -NCBI:

1. Cloning Vector pUCTABciVI, Complete Sequence (**GenBank ID: MK318074.1**)
Authors: Ghosh U and Basu U.
2. Limonium sinense somatic embryogenesis receptor kinase (serk) mRNA, partial cds (**GenBank ID: KU891640.1**)
Authors: Bose,S., Basu,U., Ghosh,U. and Bandyopadhyay,T.K

Honors and Awards

- **Selected as senior project assistant** in a DBT (Govt. of W.B) sponsored research project entitled "Investigation on variation in 5'UTR of utrophin-A transcripts in mouse myoblast C2C12 cells" in 2016.

Invited Talks/Papers Presented at Conferences/Seminars

Invited Talks

- Invited Lecture on "**Development of Novel TA cloning vector**" on the occasion of 4th Renature Talks, 2017, organized by Department of Molecular Biology and Biotechnology, University of Kalyani, Nadia, West Bengal.

Poster Presentation

- Presented poster at one day seminar entitled "**GM CROPS & FOOD SECURITY**", held on 6th February, 2014, University of Kalyani, Kalyani, West Bengal.
- Presented poster on "**A single monophasic solution for RNA isolation from biological samples.**" at **national conference** on "ADVANCING BIOLOGY THROUGH TECHNOLOGY AND COMPUTATION" held on 22nd August, 2014, organized by West Bengal State University, Kolkata.

As Resource Person

- Delivered a series of lectures **From November'19 to January'20(As a Resource Person)** on "**Plant Tissue Culture**" Primarily for the 3rd year students of the Department of the Molecular Biology and Biotechnology, Kalyani Mahavidyalaya, Kalyani, Nadia.

Short Term Course/Training

- Training on "**Animal Care Handling and Management**" held from 23rd -31st March, 2018 organized by Department of zoology and Institutional Animal Ethics Committee, University of Kalyani, Kalyani, West Bengal.
- A two days (6th-7th January, 2015) "**Training Course on Flow Cytometry**" organized by Department of Molecular Biology & Biotechnology, University of Kalyani, in association with cytometry Solution Pvt. Ltd.

Seminar/Conference Attended

- Actively participated in the online Web-Seminar on “**Use of Antibiotics and its consequences on Future Environment**” organized by Vigyan Prasar (DST-GOI) and JBNSTS (Dept. of Higher Education, GoWB) held on 15th September, 2021
- Actively participated in the online Web-Seminar on “**In Search of the Source of Life : RNA World Hypothesis**” organized by Vigyan Prasar (DST-GOI) and JBNSTS (Dept. of Higher Education, GoWB) held on 3rd September, 2021.
- Actively participated in the one-day National Webinar on “**Innovation in Life Science from lab to Practices**” organized by Department of Microbiology, West Bengal State University, Barasat, West Bengal held on 27th August, 2021.
- Actively participated in the online Web-Seminar on “**Understanding Evolution By Thought Experiment**” organized by Vigyan Prasar (DST-GOI) and JBNSTS (Dept. of Higher Education, GoWB) held on 8th August, 2021.
- Actively participated in the one-day National Webinar on “**Saviour Antioxidants: Chemistry, Biology & Uses**” organized by Department of Botany, Kalna College, Kalna, Purba Bardhaman, West Bengal held on 28th June, 2021.
- Actively participated in the online Web-Seminar on “**Fighting against the new Variant of Coronavirus**” organized by Vigyan Prasar (DST-GOI) and JBNSTS (Dept. of Higher Education, GoWB) held on 21th May, 2021.
- Actively participated in the one-day International Webinar on “**Recent Trends in Biotechnology**” organized by Department of Molecular Biology and Biotechnology, Sripat Singh College, Jiaganj, West Bengal held on 11th May, 2021.
- Actively participated in the one-day State Level NSS Webinar on “**Social Responsibilities in Times of Pandemic**” organized by National Service Scheme of Kanchrapara College, Kanchrapara, North 24-Parganas, West Bengal held on 18th September, 2020.
- Actively participated in the one-day international seminar on “**Frontiers of Stem Cell Research**” organized by University of Kalyani, Kalyani, Nadia, West Bengal held on 9th November, 2017.
- Actively participated in the DST-PURSE sponsored seminar on “**Frontiers of Research in Microbiology**” held on March, 2016, jointly organized by Department of Microbiology and Department of Molecular Biology & Biotechnology, University of Kalyani, Nadia, West Bengal.
- Actively participated in workshop-cum-seminar on “**Intellectual Property Rights on Recent Development in Science & Technology and Societal Implication**” organized by Patent Information Centre, West Bengal State Council of Science & Technology, DST, Govt. of West Bengal and Department of Microbiology, University of Kalyani held on 7th September, 2012.
- Actively participated in workshop-cum-seminar on “**Intellectual Property Rights with special emphasis on microorganism and plant variety protection**” organized by Patent Information Centre, West Bengal State Council of Science & Technology, DST, Govt. of West Bengal and Department of Microbiology, University of Kalyani on 24th-26th August, 2009.

Administrative and Academic Duties

- **[April'22-Till Date]** Duties performed as HOD/Departmental In-Charge of Molecular Biology and Biotechnology of Kanchrapara College, North 24 parganas, West Bengal.
- **[April'22-Till Date]** Performed the duties conferred upon me as member of Academic Sub-Committee, Website Sub-Committee, Library Sub-Committee, Exam Sub-Committee of Kanchrapara College, North 24 parganas, West Bengal.
- Act as convenor of State Level Webinar on “Modern Trends in Biology”, Dated 21st May'22, jointly organized by Department of Botany and Department of Molecular Biology and Biotechnology in Association with IQAC Kanchrapara College, North 24 parganas, West Bengal.
- Act as convenor of State Level Webinar on “Bioinformatics for Beginners and Fundamental of NGS Data Analysis”, Dated 16th August'21, Organized by Department of Molecular Biology and Biotechnology in Association with IQAC Kanchrapara College, North 24 parganas, West Bengal.

Personal Details

- **Father's Name:** Goutam Ghosh
- **Date of Birth:** 4th April, 1986.
- **Sex:** Male
- **Blood Group :** B+
- **Marital Status:** Married
- **Languages Known:** English, Hindi and Bengali
- **Computer:** Basic Computer Programming knowledge

Place: Pandua

Date:

Signature& Date