

# Dr. Maitreyee Mondal

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**Current Designation:** Assistant Professor

**Department:** Microbiology

**Date of Joining:** 01.10.2026

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## 1. Academic Qualifications

Degree	Institution	Year	Subject/Discipline
Ph.D.	CSIR-Indian Institute of Chemical Biology	2014	Department of Molecular Biology and Human Genetics
M.Sc.	University of Calcutta (Ballygunge Science College)	2007	Department of Biotechnology

## 2. Thesis Title

**Ph.D. Thesis Title:** Molecular and Genetic Studies on Oculocutaneous Albinism.

## 3. Specialization and Area of Interests

**Specialization:** Molecular Biology and Human Genetics

**Area of Interests:** Recombinant DNA Technology, Molecular Biology, Genetics.

## 4. Teaching Responsibilities

Microbial Systematics, Bacterial reproduction, growth, Staining, Transport through membrane, Important archaeal and eubacterial groups, Structures of DNA, RNA, Genetic materials, Central Dogma, Mutation, Recombinant DNA Technology, Intellectual Property Rights, Immunology.

## 5. Publications

### a. Research Papers in Journals

1. **M Mondal**, 2023. Sudden spike in adenoviral infection to children in India: the innocent to the pernicious. *BioGecko*, 12(2), 952-957.
2. **M Mondal** 2021. ব্যাক্টেরিয়ার এন্টিবায়োটিক প্রতিরোধ: বিপদ ঘন্টা বাজছে, *Ebong Mahua*. 142, 329-335.
- 3 T Ghosh, J Ghosh, **M Mondal**, S Roy 2020. An Understanding of Fungal Diversity of Cereal and Oil Seed Crops Particularly in Coastal Region Composed to Indo-Gangetic Areas and their Eco-friendly Management. *Research Journal of Agricultural Sciences*, 11(2), 413-419.
4. **Mondal, M.**, Sengupta, M., Ray, K., 2016. Functional assessment of tyrosinase variants identified in individuals with albinism is essential for unequivocal determination of genotype-to-phenotype correlation. *British Journal of Dermatology*, 163, 1232-1242.
5. Sengupta, M., **Mondal, M.**, Jaiswal, P., Sinha, S., Chaki, M., Samanta, S., Ray, K., 2010. Comprehensive analysis of the molecular basis of Oculocutaneous Albinism in Indian patients lacking mutation in the tyrosinase gene. *British Journal of Dermatology*, 163, 487-494.
4. Chaki, M., Sengupta, M., **Mondal, M.**, Bhattacharyya, A., Mullick, S., Bhadra, R., Indian Genome Variation Consortium, Ray, K., 2011. Molecular and functional studies of tyrosinase variants among Indian Oculocutaneous Albinism type 1 patients. *Journal of Investigative Dermatology*, 131, 260-262.
6. **Mondal, M.**, Sengupta, M., Samanta, S., Sil, A., Ray, K., 2012. Molecular basis of albinism in India: Evaluation of seven potential candidate genes and some new findings. *Gene*, 511(2), 470-474.
7. Sengupta, M., Sarkar, D., **Mondal, M.**, Samanta, S., Sil, A., Ray, K., 2013. Analysis of MC1R variants in Indian Oculocutaneous Albinism patients: Highlighting the risk of skin cancer among the albinos. *Journal of Genetics*, 92.

### b. Book chapters

1. International Publication of Book chapter titled “Complement System” in the book “Microbiology and Immunology” published in Kripa Drishti Publications on February 2022.

## 6. Invited Lectures

Title of Lecture	Event	Organizing Institution	Date
Advanced techniques in biology	Online Add-on certificate course	Mrinalini Datta Mahavidyapith, Birati, Kolkata	20th and 24th June 2021

## 7. Oral/Poster Presentations

<b>Title</b>	<b>Event</b>	<b>Type (Oral/Poster)</b>	<b>Date</b>	<b>Venue</b>
Role of SNPs (Single Nucleotide Polymorphisms) in the expression of tyrosinase (TYR) gene, present in the TYR gene-promoter	International Symposium on Biotechnology 2024	Poster	November 12-13, 2024	St. Xaviers College, Kolkata
Functional characterization of snps (single nucleotide polymorphisms) in the tyrosinase (tyr) gene promoter	International Seminar on “Recent Trends in Microbiology”	Poster	May 18, 2022.	Vijaygarh Jyotish Ray College, Kolkata
An antibacterial efficacy and phytochemical analysis of different extract of leaves of mint plant (mentha piperia) against some pathogenic bacteria	National Seminar on Diversity in the era of globalization challenges and management	Poster	February 22-23, 2020	Bidhannagar College, Kolkata
“Functional Evaluation of Non-synonymous Variants of Tyrosinase Gene and its Implication in Oculocutaneous Albinism	National Seminar of Frontiers in Biological Science FIBS): Chapter III	Poster	September 21-22, 2019	St. Xaviers College, Kolkata
Functional Evaluation of Non-synonymous Variants of Tyrosinase Gene and its Implication in Oculocutaneous Albinism	Platinum Jubilee Celebration: 2016-2017 (International level seminar)	Poster	January 14, 2017	Ramkrishna Mission Vidyamandir (Belur), Howrah
Molecular genetic and	IIIrd Annual	Poster	December	Saha Institute of

functional analysis on Oculocutaneous Albinism	meeting of Proteiomics Society (India)		15-18, 2011	Nuclear Physics (SINP), Kolkata
Molecular genetic and functional studies on Oculocutaneous Albinism	20th meeting of Indian Eye Research Group (IERG)	Poster	July 30-31, 2011	Hyderabad
Heterozygous deletion of tyrosinase gene as a potential case for uncharacterized mutations in OCA1 case	International Meeting on Research in Vision and Ophthalmology (Asia ARVO 2009)	Poster	January 15-18, 2009	HICC, Hyderabad,
Heterozygous deletion of the 3' region of TYR is one of the potential mutations which remains uncharacterized in 15% of the OCA1 patients worldwide	13th Human Genome Meeting	Poster	September 27- 30, 2008.	HICC, Hyderabad,
Heterozygous deletion of the 3' region of TYR is one of the potential mutations which remains uncharacterized in 15% of the OCA1 patients worldwide	17th annual meeting of Indian Eye Research Group (IERG)	Oral	July 26-27, 2008	Madurai

### 8. Conferences/Seminars/Symposia/Workshops Attended

Name of Event	Role (Participant/Presenter/Organizer)	Date	Venue
Recent Advancement of Microbial Biotechnology”	Participant, organized by the Microbiologists Society (West Bengal unit)	April 23, 2022.	Sister Nivedita University, Kolkata

community awareness program named “Save water campaign” on water scarcity and water safety, inspired by Ministry of Human Resource Development, Government of India in on	Participant	September 12, 2019	Raidighi College, South 24 parganas, India
workshop for U.G. Microbiology teachers on B.Sc. syllabus in Microbiology (Hons. & Genl) under CBCS system at India	Participant	May 31, 2018.	University of Calcutta, Kolkata,
International Seminar of Frontiers in Biological Science (FIBS)	Participant	January 30, 2018.	St. Xavier’s College Kolkata, India
30th Annual Convention of Indian Association for Cancer Research and International Symposium on "Signaling Network and Cancer"	Participant	CSIR-Indian Institute of Chemical Biology, Kolkata, India	February 6-9, 2011
International Symposium on “Nano-Bio Interface 2006”	Participant	March 1-3, 2006	Saha Institute of Nuclear Physics, Kolkata

## 9. Membership in Academic Bodies

Member of Microbiological Society of India

## 10. Awards/Honours

Award	Organization	Year	Description
1 <sup>st</sup> Prize for poster presentation (Faculty segment)	St. Xaviers College, Kolkata	2024	International Symposium on Biotechnology 2024

## 11. Administrative Responsibility

- Headship from last 3 years
- Academic sub-committee
- Examination sub-committee
- Kanyashree sub-committee
- Students' welfare sub-committee
- Magazine sub-committee (joint convener)
- CAS and promotion sub-committee,
- Green campus, Green audit, energy audit, environment audit sub committee
- Women's Cell