

Dr. Debjani Dutta
Senior Faculty-Microbiology
St. Xavier's College (Autonomous)
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EXECUTIVE SUMMARY

Accomplished academic professional with 23+ years of experience as a senior lecturer in Microbiology. Proven track record in teaching, curriculum planning, student mentoring, and academic administration. Known for leading initiatives to enhance learning outcomes, coordinating departmental activities, and contributing to policy and quality assurance in higher education. Passionate about shaping young minds, fostering research-oriented thinking, and promoting holistic student development.

KEY SKILLS & COMPETENCIES

- Teaching & Instruction
- Subject Matter Expertise
- Student-Centered Teaching Methods
- Classroom Management & Engagement
- Online & Blended Learning
- Curriculum Planning & Design
- Assessment & Evaluation Techniques
- Lesson Planning & Delivery

PROFESSIONAL EXPERIENCE

- **Assistant Professor, Microbiology**
St. Xavier's College (Autonomous), Kolkata, West Bengal— July 2007 – Present
 - Delivered core and elective courses in Microbiology for undergraduate and postgraduate students, using active learning and blended instruction techniques.
 - Played a key role in curriculum development and revision in line with NEP and UGC guidelines.
 - Guided over numerous students in dissertation writing, research methodology, and project-based learning.
 - Heading the Department of Microbiology for the last two years, overseeing scheduling, faculty assignments, and academic audits.
 - Contributed to NAAC accreditation preparation, including documentation, metric analysis, and departmental presentations.
 - Organized guest lectures, student debates, and community outreach programs to enrich student engagement and awareness.

- Served as the Laboratory-in-charge of the same department from July 2018 to June 2023.
- **Assistant Professor and Teacher-in-Charge, Microbiology**
THK Jain College. Cossipore, Kolkata --June 2006 – June 2007
Setting up of the Department of Microbiology for the new College
- **Lecturer, Microbiology**
Sammilani College, Bankura, West Bengal --September 2003-May 2006
- **Lecturer, Microbiology**
The Oxford College of Science, Bangalore, Karnataka --September 2002-August 2003

EDUCATION

Ph.D

St. Xavier's College (Autonomous), Kolkata — 2024

M.Sc

Al Ameen College, Bangalore University, Karnataka – 2002 (79.8%, 2nd Rank)

B.Sc

The Oxford College of Science, Bangalore University, Karnataka – 2000 (65.86%)

CERTIFICATIONS & TRAINING

- Attended Orientation Course: OP 82 Academic Staff College, Calcutta University, UGC. 16.11.2009-14.12.2009
- Attended Refreshers Course: Special Summer School 2014 for Science and Technology. Academic Staff College, Calcutta University, UGC. 12.6.2014-2.7.2014
- Attended Refreshers Course: Recent Advancement in Food and Bioprocess Technology, UGC-HRDC, Jadavpur University 2.1.2019-19.1.2019
- 1st position in poster presentation titled “Role of residual microflora from Indian spices in increasing their shelf life” , held on 26th and 27th of August,2022, at St. Xavier's College, Kolkata.
- 2nd position in paper presentation titled “Increasing shelf life of spices: Microbial inputs”, held on 19th and 20th of October, 2022, at ICEES 2022 Bilateral International Conference on Ecotoxicology and Environmental Sciences, organised by IEEs, Khulna University and BEDS.

PAPER PUBLICATION

- “Unique microbial association in cumin and coriander” (2022); **Debjani Dutta**, Debapriya Maitra, Bedaprana Roy, Bijeta Roy, Swarnaprava Biswas and Arup Kumar Mitra; Journal of Mycopathological Research, Volume 60(3), Pages 335-343. (ISSN 0971-3719).
- “Role of residual microflora from Indian spices in increasing their shelf life”; (2022); **Debjani Dutta**, Debdatta Das, Debapriya Maitra, Bedaprana Roy, Arup Kumar Mitra; Journal of Environment and Socio-biology., 19(2): Pages 171-181; (ISSN 0973-0834).
- Antifungal activity of *Aegealitis rotundifolia* extract against pathogenic fungi *Mycovellosiella*; Sourav Sett, Chandan Mahish, Indrajit Poirah, **Debjani Dutta**, Abhijit Mitra and Arup Kumar Mitra; p: 403-417; World Journal of Pharmaceutical Research, Vol 3, Issue 2. 2013. (ISSN 2277-7105)
- “Isolation identification and Characterization of soil-borne *Candida tropicalis*”(2010); Piyal Taru Dasgupta, Anindita Das, Joydeep De and **Debjani Dutta**; Aviskaar: A Xaverian Journal of Research, Vol II; pg. 78-94;

BOOKS

- **Comprehensive Microbiology (2018)**
Debjani Dutta, Arup Kumar Mitra and Lopamudra Roy; Current Book Publisher

BOOK CHAPTERS PUBLICATION

- “Algal Nanoparticles in Reducing the Menace of Bio-Inorganic Pollution” (2025); **Debjani Dutta**, Sreeja Chakrabarti, Ahana Nandy, Sreshtha Sengupta, Arup Kumar Mitra; Phyconanotechnology: Current Research, Challenges, and Prospects. Springer Nature; Pages 85-98.
- Contributed a chapter on “Culture Transfer techniques” (2014); Practical Manual of Modern Microbiology, Edited by Arup Kumar Mitra, Kasturi Sarkar; Himalya Publishing House; pg:66-80.
- “A Novel Technique to Prepare Probiotic Mishti Doi using *Lactobacillus acidophilus* (2009); **Debjani Dutta**; Environmental Pollution on Biosphere and its Management, Volume II, Pages 103-112.
- Contributed a chapter on “A Novel Technique to Prepare Probiotic Mishti Doi using *Lactobacillus acidophilus*”; (2009); Environmental Pollution on Biosphere and its Management, Volume II, Edited by Debamrita Mitra and Arup Kumar Mitra, pg. 103-112.

MOOC COURSES

Mooc 8. Environmental, Food and Dairy microbiology MOOC 2018 36 module course.

