Dr. Jaydip Ghosh  
Department: Microbiology, St. Xavier’s College, Kolkata  
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Designation: Assistant Professor  
Qualification: M.Sc., Ph.D.

➢ Short Profile:
Graduation in Chemistry, post-graduation in Biochemistry (with Molecular Biology as special paper) from Calcutta University.  
Ph.D. from the Department of Biophysics, Molecular Biology and Genetics, Calcutta University. Ph.D. thesis title: “Protein Folding: Chaperones and Ribosomes.”  
First post-doctoral research in Uppsala University, Sweden where primarily worked on (i) Sporulation in Mycobacteria, and (ii) Identification and Characterization of small non coding RNA in Mycobacteria.  
Second post-doctoral research in Bordeaux University, France where the major project was the elucidation of the role of small noncoding RNA in the regulation of antibiotic tolerance in bacterial persister cells.

➢ Published Articles:

1. Identification and Characterization of the Antimicrobial and Active Components of Tea (Camellia Sinensis).  
Hridi Halder, Reetish Raj Sahoo, Shuvrangshu Guha, Sagnik Bhattacharjee, Dyutika Banerjee, Sejuti Ray, Arpita Pareshchandra Mondal, Jaydip Ghosh and Sudesha Shyam Choudhury.  
IOSR Journal Of Pharmacy And Biological Sciences (IOSR-JPBS) e-ISSN:2278-3008, p-ISSN:2319-7676. Volume 15, Issue 1 Ser. II (Jan – Feb 2020), PP 51-58.

2. Comparison of Antioxidant and Antimicrobial Potential of Tea Samples from Seven Valleys of Darjeeling.  
Sejuti Ray, Srijan Bhattacharya, Jaydip Ghosh, Sudesha Shyam Choudhury.  
Research and Reviews: Journal of Crop Science and Technology. 2020, Vol 9, (2) pg-4-13
3. A possible role of the full-length nascent protein in post-translational ribosome recycling.
Debasis Das, Dibyendu Samanta, Arpita Bhattacharya, Arunima Basu, Anindita Das, Abhijit Chakrabarti, Jaydip Ghosh and Chanchal Das Gupta.
PLOS ONE. 2017 Jan 18; 12 (1)

4. CRISPR: Future of genetic engineering?
Jaydip Ghosh.
Journal of Scientific Letters. 2016; Vol .1(3):86-90

5. Involvement of Mitochondrial Ribosomal Proteins in Ribosomal RNA-mediated Protein Folding.
Anindita Das, Jaydip Ghosh (co-first author), Arpita Bhattacharya, Dibyendu Samanta, Debasis Das, and Chanchal Das Gupta.
Journal of Biological Chemistry. 2011, 286, 43771-43781.

6. Ribosome: The structure–function relation and a new paradigm to the protein folding problem.
Debasis Das, Dibyendu Samanta, Anindita Das, Jaydip Ghosh, Arpita Bhattacharya, Arunima Basu, Abhijit Chakrabarti, and Chanchal Das Gupta.
Israel Journal of Chemistry. 2010, 50, 1–8.

7. Growth, cell-division and sporulation in mycobacteria.
Singh B, Ghosh J, Islam NM, Dasgupta S, Kirsebom LA.
Antonie Van Leeuwenhoek. 2010 Aug; 98(2):165-77. Epub 2010 May 1.

8. Sporulation in mycobacteria.
Ghosh J, Larsson P, Singh B, Pettersson BM, Islam NM, Sarkar SN, Dasgupta S, Kirsebom LA.
Proceedings of National Academy of Sciences, U. S. A. 2009 Jun 30; 106(26):10781-6. Epub 2009 Jun 16.
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9. Role of the ribosome in protein folding.
Das D, Das A, Samanta D, Ghosh J, Dasgupta S, Bhattacharya A, Basu A, Sanyal S, Das Gupta C.
Biotechnology Journal. 2008 Aug; 3(8):999-1009.

10. Protein folding by domain V of Escherichia coli 23S rRNA: specificity of RNA-protein interactions.
Samanta D, Mukhopadhyay D, Chowdhury S, Ghosh J, Pal S, Basu A, Bhattacharya A, Das A, Das D, DasGupta C.
Journal of Bacteriology. 2008 May; 190(9):3344-52. Epub 2008 Feb 29.
11. In vitro protein folding by E. coli ribosome: unfolded protein splitting 70S to interact with 50S subunit.
Basu A, Samanta D, Das D, Chowdhury S, Bhattacharya A, Ghosh J, Das A, Dasgupta C.
Biochemical and Biophysical Research Communications. 2008 Feb 8; 366(2):598-603. Epub 2007 Dec 7.

12. Ribosome-DnaK interactions in relation to protein folding.
Ghosh J, Basu A, Pal S, Chowdhuri S, Bhattacharya A, Pal D, Chattoraj DK, DasGupta C.
Molecular Microbiology. 2003 Jun; 48(6):1679-92.

13. Splitting of ribosome into its subunits by unfolded polypeptide chains.
Basu Arunima, Ghosh Jaydip, Bhattacharya Arpita, Pal Saumen, Chowdhury Saheli, and Dasgupta Chanchal.
Current science, 2003, vol. 84, no. 8, pp. 1123-1125.

14. Mutations in domain V of the 23S ribosomal RNA of Bacillus subtilis that inactivate its protein folding property in vitro.
Chowdhury S, Pal S, Ghosh J, DasGupta C.
Nucleic Acids Research. 2002 Mar 1; 30(5):1278-85.

➢ Text Book:
1. Snatak Ajaiba Rasayana (Inorganic Chemistry, Degree Course).
Saktiprosad Ghosh and Jaydip Ghosh.
Book Syndicate Pvt. Ltd. (2014)

➢ Book Chapter:
1. Ribosome Assisted Protein Folding: Some of its Biological Implications.
Dibyendu Samanta, Anindita Das, Debasis Das, Arpita Bhattacharya, Arunima Basu, Jaydip Ghosh and Chanchal DasGupta.
2. Protein Folding, Novascience publications, Editor: Eric C. Walters, 2010, 4th quarter, ISBN: 978-1-61728-990-3
3. Unique Extremophilic Bacillus: Their application in Plant Growth Promotion and Sustainable Agriculture (Book Chapter no. 16 from the Book: Microbes and Microbial Biotechnology for Green Remediation, Editor: Junaid Ahmed Malik).
Bedaprana Roy, Debapriya Maitra, Jaydip Ghosh, Arup Kumar Mitra.
In Press, Elsevier Publications.

➢ Patent:
As an inventor, I am a part of an international patent (US-8779088-B2) titled “New vaccine for the treatment of Mycobacterium related disorders”. (2014)