

Dr. Debdoot Gupta.

Faculty (Contractual)

Department of Microbiology

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◆ **Permanent Address:**

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P.O- Uttarpara, Dist-Hooghly,

Pin-712258.

West-Bengal, India.

◆ **Teaching Experience: 15 (Fifteen) Years** in The University of Burdwan.

◆ **Teaching areas:** Bioinformatics, Biochemistry, Immunology, Instrumentation, Food Microbiology.

◆ **Field of Research Interest:**

- Bacterial genome analysis and comparative genomics
- Drug target identification and drug designing (in silico approach)
- Protein structure modeling
- Protein ligand docking and simulation studies
- Study of effect of mutation (in silico approach) etc.

◆ **Educational Degrees:**

Exam	Board/ University	Year
Ph.D (Microbiology) Thesis Title: “Comparative Genomics for Function Prediction in Bacteria: A Bioinformatic Approach.”	The University of Burdwan	2018
Post Graduate Diploma in Bioinformatics (PGDBI)	IISWBM (ECIL)	2004
M.Sc. (Biotechnology)	Visva-Bharati	2002
B.Sc Physiology (Honours),	Calcutta University	2000
Higher Secondary Examination	W.B.C.H.S.E	1996
Secondary Examination	W.B.B.S.E	1994

◆ **Present Position:**

Faculty (Contractual), Department of Microbiology, The University of Burdwan (2007-till date).

◆ **Previous Employment:**

Faculty (Whole time, contractual), Department of Biotechnology, The University of Burdwan (2004-2007).

◆ **Publications (Journal):**

1. **Debdoot Gupta**, Pradipta Saha (2017), “Identification of A Hypothetical Protein as Drug Target In *Moraxella catarrhalis* Involved In Chronic Obstructive Pulmonary Disease (COPD): An In Silico Comparative Genomics Approach”, J. Env. Bio-Sci., 2017: Vol. 31 (2): (397) 397-399.
2. **Debdoot Gupta**, Samiddha Banerjee, Santanu Pailan & Pradipta Saha (2016), “In silico identification and characterization of a hypothetical protein of *Mycobacterium tuberculosis* EAI5 as a potential virulent factor”, Bioinformation, 12(3), 182-191(**IF 0.5**).
3. Santanu Pailan, **Debdoot Gupta**, Snehal Apte, Srinivasan Krishnamurthi, Pradipta Saha (2015). Degradation of organophosphate insecticide by a novel *Bacillus aryabhatai* strain

SanPS1, isolated from soil of agricultural field in Burdwan, West Bengal, India. International Biodeterioration and Degradation 103: 191-195. (IF-2.962).

4. Sayak Ganguli, **Debdoot Gupta** and Abhijit Dutta (2011), “Structural analysis of heparinbinding hemagglutinin (HBHA) of *Mycobacterium tuberculosis*- a potential vaccine”, International Journal of Computational Biology, Vol. 2, Issue 2, pp-38-40.
5. Sabyasachi Chatterjee, **Debdoot Gupta**, Pranab Roy, Narayan Chandra Chatterjee, Pradipta Saha and Sikha Dutta (2011), Study of a lead tolerant yeast strain BUSCY1 (MTCC9315). African Journal of Microbiology Research Vol. 5(30), pp5362-5372.

◆ **Publications (Proceedings):**

1. **Debdoot Gupta** and Pradipta Saha “Novel Drug target for *Enterococcus faecium*: Preliminary analyses results of in silico comparative genomics approach”, Published in Abstract Volume of One Day National Symposium On “Modern Approaches Of Biotechnology in Globalization” Organised By Department of Biotechnology, The University of Burdwan and Supported by DST, Govt. of West-Bengal on 18th March, 2016, Page 37(SBB-3).
2. **Debdoot Gupta**, Samiddha Banerjee, Pradipta Saha, “Analysis of A Leucine rich Hypothetical protein of *Mycobacterium tuberculosis*: An In-silico comparative genomics Approach” , Published in Abstract Volume of National Seminar on “Sustainable Development in Biotechnology” organised by Department of Biotechnology, The University of Burdwan on March’2015, page 48-49.
3. **Debdoot Gupta**, Sucharita Bose, Subhrakanti Mukhopadhyay, “In silico characterization of p-nitrophenol Monooxygenase of *Paenibacillus polymyxa*: A potential PNP degrader”, Proceedings of the 24th West-Bengal State Science Congress, organised by DST, WB and WB State council of Science and Technology, hosted by North Bengal University on 28th February- 1st March, 2015, Page BM7.(Abstract).

◆ **Invited talk:**

1. Guest lecturer in the Department of Zoology, Serampore College.
2. Guest lecturer in the Department of Microbiology, Barrackpore Rastraguru Surendranath College.
3. Acted as resource person in the “International Workshop on Bioinformatics and Computational Biology” in 2016 and 2019 jointly organized by The Biome and AIIST.
4. Acted as resource person in DBT Inspire camp for the school students organized by The University of Burdwan in the year 2016, 2017 and 2018.

◆ **Seminar/ Symposium/ Workshop attended:**

1. Participated in a National Symposium On “Molecular Aspects Of Human Diseases” organized by Department of Physiology, Serampore College held on 19th March, 2016.
2. Participated in “Bongio Bigyan Utsav and Bongio Bigyan Baktrita” organised by The University of Burdwan, DST- WB, and WB- State Science and Technology Council on 14-16 ‘Mar., 2015.
3. Presented a paper in WB State Science and Technology Congress, 2015 organised by DST, WB and WB State council of Science and Technology, hosted by North Bengal University on 28th February- 1 st March, 2015.
4. Participated in the UGC Sponsored “Interaction program for Research Scholar” organised by Academic Staff College, The University of Burdwan from 4th -24th September, 2014.
5. Participated in WB State Science and Technology Congress, 2014 organised by The University of Burdwan and WB State Science and Technology Council, Govt. of WB on 20-21 ‘Feb, 2014.
6. Participated in the National Science Day Seminar on “Clean Energy Option and Nuclear Safety”(In honour of Sir C.V. Raman), Organised By Dept. of Biotechnology, The University of Burdwan, on 28th March, 2012.
7. Participated in the Workshop on Bioinformatics (WBI’12) organized by the Centre for soft computing research (CSCR) of Indian Statistical Institute on Feb’15- Feb’17, 2012.
8. Participated in National Seminar cum Exposition on Modern Microscopes and their Applications (NSEMMA) on April 08-09, 2010 organised by USIC, The University of Burdwan.

◆ **Seminar/ Symposium/ Workshop organized:**

1. Two days Workshop on “Bioinformatics: Some of the Fundamentals and their Applications” for College Teachers on 21st -22nd December, 2011, organised in Deptt. Of Microbiology, The University of Burdwan.
2. Golden Jubilee Seminar Lecture Series by Dept. of microbiology, BU on 14th May, 2010 in Burdwan Science Centre.
3. One day seminar lecture series organized by The Dept. of Microbiology in the month of February, 2010.
4. Member of the organizing committee (Food subcommittee) in 4th Regional Science and Technology Congress (Western Region) in 2019, organized by Deptt. Of Science and Technology and Biotechnology (DSTBT), Govt. of WB and The University of Burdwan, WB.

◆ **Paper presented in Seminar/ Symposium/ Workshop:**

1. Presented a paper in WB State Science and Technology Congress, 2015 organised by DST, WB and WB State council of Science and Technology, hosted by North Bengal University on 28th February- 1 st March, 2015.

◆ **Administrative experience:**

1. Paper setter and examiner for M.Sc Microbiology and Biotechnology examination (Theory and Practical).
2. Acted as Chairman of semester-III of Microbiology (Hons.) of Burdwan University in 2019.
3. Paper setter, examiner, reviewer and scrutinizer of B.Sc Hons examination in Microbiology, Biotechnology and Biochemistry.
4. Convener of practical exam of B.Sc Microbiology, Biotechnology and Biochemistry honours.
5. Member of the cultural committee in WBSSC, 2015.
6. Member of the Food subcommittee in 2nd Regional Science and Technology Congress, 2017 (western region) held on November-16-17, 2017.

◆ **M.Sc Dissertation work:**

More than 20 PG students did their MSc dissertation work under my guidance.

Acted as mentor of selected PG students for improving their academic and personal credential.

◆ **Extra-curricular activity:**

1. Sangeet Visharad in Tabla from Chandigarh Prachin Kala Kendra.

Dr. Debdoot Gupta.