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Jhulan Basu

Present Status	Working at Dum Dum Motijheel State Aided College Teacher from September 2004
Educational Qualification	Ph.D. in Science from Techno India University M.Phil. (Microbiology) from Annamalai University, M.Sc. (Microbiology) from Bangalore University B.Sc. (Microbiology) from Bangalore University W.B.C.H.S.E Higher Secondary Examination (Science) W.B.B.S.E Madhyamik Examination
Interest	Dancing, Painting, and Illustration.
Language known	Bengali, English, Hindi, Assamese
Software Skills:	Word Processing, viz., Excel, PowerPoint, and Microsoft Word, Scanning, Web Surfing (e-mail), NCBI-BLAST, etc.
M.Sc. Dissertation Thesis:	On the Influence of Temperature and pH on the Neutral Protease Assay from the Extraction of *Bacillus subtilis.* At Biocon India Ltd., Bangalore
M. Phil Dissertation	"Prevalence and Patterns of Neonatal Sepsis in a Tertiary Care Hospital" IPGME&R, Kolkata 20 Principal investigator Dr. Arun Singh.

Ph.D.	"Profiling of Pan Drug Resistant Gram negative bacteria across Gangetic Delta of West Bengal"
` TEACHING INTEREST	Environmental Microbiology, Food, and Dairy Microbiology, Industrial microbiology, Medical Microbiology, Immunology, Biochemistry, Plant Pathology, Microbial Physiology, Microbial genetics.
Working Knowledge of laboratories	**Microbiological Techniques**: Culture Isolation n, Maintenance & Regeneration, Biochemical Characterization of Microbial Cultures, and Detection of phosphatase, amylase, protease,β-lactamase, etc, enzymes production, Carbohydrate and protein estimation test. Bacterial growth curve and characteristics of Bacteria, Tolerance trait of bacteria against pH and salt, Optimization of different parameters, Determination of MIC of given antimicrobial drug, Detection of fecal coli from bacteria in drinking water by MPN method. Sterilization, media preparation, Inoculation, in vitro plant tissue culturing, and their hardening. Lyophilization, Sonication, Microscopy. **Molecular Technique**: Genomic & Plasmid DNA Isolation, PCR, Gel Electrophoresis, Biocontrol activity, phosphate solubilization and its quantification, Enzyme production (Amylase, Keratinase, Proteases). Southern, ELISA, etc.

Research and Publication	1. P. GIRI 1 *, J. BASU,2 H. SAHA1, K. BISWAS3 AND P. BHOWMIK4, Bioprospective potential of a novel Bacillus strain isolated from the rhizosphere of Azadirachta indica Linn, Indian Mycological Society, Department of Botany, University of Calcutta, J. Mycopathol. Res. 60(1) : 111-116, 2022; (ISSN 0971-3719) 2. P. GIRI 1 *, J. BASU,2 H. SAHA1, K. BISWAS3 AND P. BHOWMIK, Bioprospective potential of a novel Bacillus strain isolated from the rhizosphere of Azadirachta indica Linn. J. Mycopathol. Res. 60(1) : 111-116, 2022; (ISSN 0971-3719) © Indian Mycological Society, Department of Botany, University of Calcutta, Kolkata 700 019, India 3. P Giri, G Das, J Basu, N Banerjee, H Saha Production of Industrially Important Novel Compound from the Essential Oil of Ocimum through Microbial ExploitationMedicinal Plants of India: Conservation and sustainable use (2019): 317-325 ISBN: 9788170196525.

	4. Biswas, K., Nayek, A.K., Basu, J., Ghosh, A. and Giri, P. (2017): Are mobile radiations harmful for bacteria? A case study, International Journal of Advanced Research, 5(7): 2320-5407. 5. K. Biswas1, **Jhulan. Basu** 2, A. Ghosh3 & P.Giri4, Study of rhizospheric bacterial population of Azadirachta indica (Neem) of North 24 Parganas, Int. J. Exp. Res. Rev.., Vol. 6: 62-66 (2016). 6. **Jhulan Basu,** S. Datta, L. Bagchi, A Geographical and Microbiological assessment of Ganga water in and around Dakhshineswar area, West Bengal. IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402, p-ISSN: 2319-2399.Volume 10, Issue 7 Ver. II (July 2016), PP 00-00 www.iosrjournals.org. .
Symposium attended	1., **Jhulan. Basu** 2, A. Ghosh3. K. Biswas1& P. Giri4, Study of rhizospheric bacterial population of *Azadirachta indica* (Neem) of North 24 Parganas, West Bengal, International Conference "The Green Planet: past, present and future" Department of Botany, University of Calcutta, 2016.**(Poster presentation)** 2. P.Giri1*, A.Ghsoh2, K. Biswas3, **Jhulan. Basu 4**, A. Nayek5, Exploration of the diversity of the bacterial population in the rhizosphere of *Azadirachta indica* (neem) of North 24 Parganas district of West Bengal in consideration of their bioprospective potentialities. Rusa Funded International Level seminar Ramkrishna Mission Vidyamandira, 2017. **(Poster presentation)** 3., S. Datta, **Jhulan Basu** ,L. Bagchi, A Geographical and Microbiological Assessment if Ganga water in and around Dakhshineswar area,West Bengal. Rusa Funded International Level seminar Ramkrishna Mission Vidyamandira, 2017. **(Poster presentation)** 4. A.B.Mukerjee,N.Bandyopadhya,S,Saha P.Giri1*, A.Ghsoh, K. Biswas, **Jhulan. Basu** , A. Nayek. Study of phosphate solubilizing efficiency of rhizospheric isolates of *Azedarach indica* (neem). Rusa Funded International Level seminar Ramkrishna Mission Vidyamandira, 2017. **(Poster presentation)** 5. G. Das1, P. Giri2, **J. Basu3**, N. Banerjee4, K. Biswas5 & H. Saha6Evaluation of the utilization potentiality of the rhizosphere microflora of *Azadirachta*

	indica (Linn.) in the management of crop productivity, National Seminar, Department of Forestry, Mizoram University, Aizawl, Mizoram 2018.**(Oral Presentation)** 6. **Jhulan Basu1** , Pranab Giri2, Nandini Banerjee4, & Haradhan Saha5 Bioprospecting potentialities of novel isolates from the rhizosphere of *Azadiractha indica*(Neem) of North 24 Parganas, National seminar,Department of Zoolgy ,Vijaygarh Jyotish Ray College,2019.**(Oral Presentation)** 7. **Jhulan Basu1**, Pranab Giri1, P.Bhowmick, Bioprospective potentialities of a novel isolates from the rhizosphere of *Azadiractha indica* (Neem), UGC-SAP (DRS II)-Sponsored National Symposium, Department of Biochemistry and Biophysics , University of Kalyani, 2019.**(Oral Presentation)** 8. **Jhulan Basu1**, Pranab Giri1, P.Bhowmick, Antibiotic resistant bacteria isolated from urban environmental soil from West Bengal,107th Indian Science Congress.(**Poster presentation)**. 9. **Jhulan Basu1**, Pranab Giri1, P.Bhowmick, Antibiotic resistant bacteria isolated from urban environmental soil from West Bengal,with emphasis on multidrug resistance, 6th International Conference of Environment and Ecology,Department of Botany and Environmental Sciences, University of Allahabad,Prayagraj,Uttar Pradesh.2020**.(Oral Presentation)** 10.Mrs. Jhulan Basu,An Overview on Extended Spectrum β-Lactamases (ESBL), BioNext 2022: 2nd International Conference on 'Frontiers in Modern Biology', School of Life Science & Biotechnology, Adamas University,2022.(**Poster Presentation,Won 3rd Prize)** 11.**Jhulan Basu 1** , Atreyee Kudu 1 , Arnab Ganguli 1 , Pranab Giri 2, and, Haradhan saha 2 Studies on the environmental spreading of antibiotic resistance among Gram negative bacteria in the Gangetic delta,TWO-DAY INTERNATIONAL SEMINAR *Department of Geography, School of Sciences, Netaji Subhas Open University, Kolkata, West Bengal, India* on *Multidisciplinary Perspectives of Managing Environment and Resource for Sustainable Development* (*Funded by the ICSSR Research Project*) 2024 **(Oral Presentation)**
Workshop	One day Workshop on Science, Medicine & future: Bioinformatics, A fundamentals to Data Analysis, Organized by Department of Microbiology, Dum Dum Motijheel College in collaboration with Department of Biotechnology, School of Science and Technology, The Neotia University, 2024

MEMBERSHIPS OF LEARNED SOCIETIES	Life member of the Indian Science Congress.
NUMBER OF SEMINAR PRSENTATIONS	NUMBER OF SEMINAR PRESENTATIONS: • International: 4; National: 6