

Dr. Pritam Chattopadhyay

Assistant Professor of Botany, M.U.C. Women's College, Burdwan – 713104, West Bengal, India

Permanent Address: South-East Kumle Pukur, Sonatore Para, Siuri, - 731101, Birbhum, W.B., India

Date of Birth: 8th Dec., 1983

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Phone: +91 7001009127



ACADEMIC PROFILE

- 2019 Assistant Professor of Botany
M.U.C. Women's College
University of Burdwan, Bardhaman
- 2018 WBCSC_Botany_2018
Topper in the Merit List
- Post Doc._2
Dr. DS Kothari PDF
Gauhati University, Guwahati
- 2015 Post Doc._1
CSIR-RA
University of Delhi, Delhi
- 2013 Ph.D. Botany
79.30% (in Course Work)
Visva-Bharati, Santiniketan
- 2012 CSIR-SRF
Visva-Bharati, Santiniketan
- 2010 CSIR-JRF
Visva-Bharati, Santiniketan
- 2007 UGC-CSIR NET (2007 June, Roll No. 320339)
- DBT-BCIL BITP_2006-2007
M/S Ajay Biotech (I) Ltd., Pune
- 2006 UGC-CSIR NET (2006 Dec., Roll No. 313644)
M.Sc. Biotechnology_DBT Sponsored
72.50% University Topper (First Class 1st)
Visva-Bharati, Santiniketan
- B.Sc. Life Sc. (Hons.) Botany (Major)
70.00% University 3rd (First Class 3rd)
Visva-Bharati, Santiniketan

Teaching → **B.Sc. (H.) Botany CBCS**

Odd Sem.	Even Sem.
CCI: Microbiology & Phycology: Unit 1-4; CCV: Plant Ecology & Phytogeography: Unit 1-5; SECI: Agricultural Botany: Unit 3; CCXI: Plant Physiology: Unit 3&5; CCXII: Plant Metabolism; Unit 3-5; DSEII: Bioinformatics: All Units	CCIII: Mycology & Phytopatho: Unit 7-9; CCX: Mol Biol: Unit 4&6; CCXIII: Genetics & Plant Breeding: Unit 3,9,&10; CCXIV: Plant Biotechnol: Unit 3&5; DSEIII: Plant Evo & Div: Unit 2-3; DSEIV: Industrial Microbio: Unit2-4

Project →
Studies on type III secretion system (T3SS) on virulence determinants of symbiotic and pathogenic bacteria
Mentor: Prof. Pratap J. Handique

Project →
Regulation of heat shock proteins in *Drosophila melanogaster* populations simultaneously selected for faster pre-adult development and late reproduction.
Mentor: Prof. Mallikarjun Shakarad

Project →
Assessment of Genetic Diversity of Indian *Dendrobium Swartz* (Orchidaceae) through Morphometric, Micro-morphometric and Molecular Markers
Guide: Prof. Nirmalya Banerjee

Topic →
Assessment of Genetic Diversity at Inter- and Intra-specific Levels of the Genus *Dendrobium* (Orchidaceae) through Micromorphological Characters and Molecular Markers

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Assessment of Genetic Diversity at Inter- and Intra-specific Levels of the Genus *Dendrobium* (Orchidaceae) through Micromorphological Characters and Molecular Markers

Topic →
Product Development and Bioefficacy study on Biofertilizer and Biopesticide

Dissertation →
Apoptotic death of *Aeromonas hydrophila* infected Macrophages of Swiss Albino Mice
Guide: Prof. Shibnath Mazumder

Dissertation →
Study of Microbiological Properties of Some Important Drinking Water Sources of Visva-Bharati
Guide: Prof. Narayan C. Mandal

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RESEARCH PROFILE

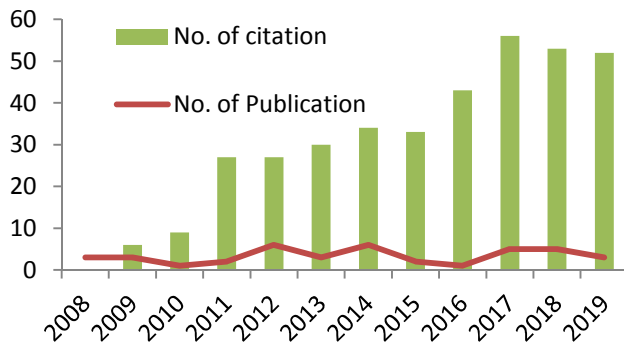
➤ **Web of Science Researcher ID: F-6196-2013**

➤ **ORCID ID:** [0000-0003-0238-5680](https://orcid.org/0000-0003-0238-5680)

➤ **Publications at a glance:**

	Paper in peer reviewed journals		Book chapter in edited books		Books		Abstracts in Seminar/Symposia/Workshop	
	International	National	International	National	International	National	International	National
Published	27	00	02	03	02	00	03	09
Accepted	00	00	00	01	00	00	01	00

➤ **Publication matrix:**



➤ **Publication indices:**

No. of paper having NAAS Score >6: 12

Cumulative impact factor (Clarivate Analytics): 31.35

Citation (Google Scholar): 519

i10-index (Google Scholar): 14

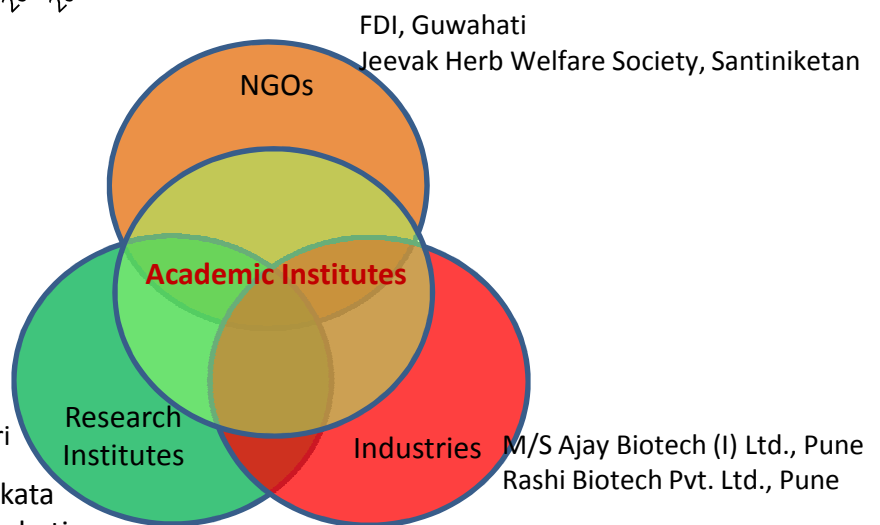
h-index (Google Scholar): 12

➤ **Collaborations:**

- **International**
University of Wyoming, Laramie
Texas Tech University, Texas
Kyung Hee University, Seoul

- **National**
University of Calcutta, Kolkata
Gauhati University, Guwahati
Navsari Agricultural University, Navsari

NICED, Kolkata
NIPER, Guwahati



➤ **Research grant received:**

- Biotechnology Ignition Grant Scheme (**BIG**) from Biotechnology Industry Research Assistance Council (**BIRAC**) for "**Scale-up of Nature Identical Vanillin Production from Biotransformation of Agro-waste(s)**". Principal Investigator (**PI**). BIRAC/KIIT0813/BIG-15/19 (**Sanctioned Budget 50 Lakh**)

➤ **Editorial/Review member:**

- The Journal of Biochemistry (**JBC**). Oxford University Press. ISSN: 0021-924X
- Reviews in Environmental Science and Bio/Technology (**RESB**). Springer, ISSN: 1569-1705
- Vegetos (**VTOS**). Springer. ISSN: 2229-4473

➤ **Recognition/ Society member:**

- "Life member" of Association of Microbiologists of India (ID: AMI 5/2011)
- "Quarterly Franklin Membership" from London Journals Press (ID: KN71202)

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SELECTED PUBLICATIONS FROM LAST FIVE YEAR

Fermentation Technology

1. Banerjee, G. and **Chattopadhyay, P.***, 2019. Vanillin biotechnology: the perspectives and future. *Journal of the Science of Food and Agriculture*, 99(2), pp.499-506. ISSN: 0022-5142

DOI: [10.1002/JSFA.9303](https://doi.org/10.1002/JSFA.9303)

IF: 2.422

NAAS Score: 8.38

Cited by: 34

2. **Chattopadhyay, P.**, Banerjee, G. and Sen, S.K., 2018. Cleaner production of vanillin through biotransformation of ferulic acid esters from agroresidue by *Streptomyces sannanensis*. *Journal of Cleaner Production*, 182, pp.272-279. ISSN: 0959-6526

DOI: [10.1016/J.JCLEPRO.2018.02.043](https://doi.org/10.1016/J.JCLEPRO.2018.02.043)

IF: 7.051

NAAS Score: 11.65

Cited by: 14

3. Goswami, R., **Chattopadhyay, P.**, Shome, A., Banerjee, S.N., Chakraborty, A.K., Mathew, A.K. and Chaudhury, S., 2016. An overview of physico-chemical mechanisms of biogas production by microbial communities: a step towards sustainable waste management. *3 Biotech*, 6(1), p.72. ISSN: 2190-572X

DOI: [10.1007/S13205-016-0395-9](https://doi.org/10.1007/S13205-016-0395-9)

IF: 1.786

NAAS Score: 7.50

Cited by: 36

Biocontrol

4. **Chattopadhyay, P.** and Banerjee, G., 2018. Recent advancement on chemical arsenal of Bt toxin and its application in pest management system in agricultural field. *3 Biotech*, 8(4), p.201. ISSN: 2190-572X

DOI: [10.1007/S13205-018-1223-1](https://doi.org/10.1007/S13205-018-1223-1)

IF: 1.786

NAAS Score: 7.50

Cited by: 06

5. **Chattopadhyay, P.**, Banerjee, G. and Mukherjee, S., 2017. Recent trends of modern bacterial insecticides for pest control practice in integrated crop management system. *3 Biotech*, 7(1), p.60. ISSN: 2190-572X

DOI: [10.1007/S13205-017-0717-6](https://doi.org/10.1007/S13205-017-0717-6)

IF: 1.786

NAAS Score: 7.50

Cited by: 20

Aquatic Microbiology

6. Saikia, D.J., **Chattopadhyay, P.**, Banerjee, G., Talukdar, B. and Sarma, D., 2018. Identification and Pathogenicity of *Pseudomonas aeruginosa* DJ1990 on Tail and Fin Rot Disease in Spotted Snakehead. *Journal of the World Aquaculture Society*, 49(4), pp.703-714. ISSN: 0893-8849

DOI: [10.1111/JWAS.12476](https://doi.org/10.1111/JWAS.12476)

IF: 1.386

NAAS Score: 7.34

Cited by: 01

7. Saikia, D.J., **Chattopadhyay, P.**, Banerjee, G. and Sarma, D., 2017. Time and dose dependent effect of *Pseudomonas aeruginosa* infection on the scales of *Channa punctata* (Bloch) through light and electron microscopy. *Turkish Journal of Fisheries and Aquatic Sciences*, 17(5), pp.871-876. ISSN: 1303-2712

DOI: [10.4194/1303-2712-V17_5_03](https://doi.org/10.4194/1303-2712-V17_5_03)

IF: 0.938

NAAS Score: 6.48

Cited by: 04

Bioinformatics

8. Banerjee, G., Basak, S., Roy, T. and **Chattopadhyay, P.***, 2019. Intrinsic role of bacterial secretion systems in phylogenetic niche conservation of *Bradyrhizobium*. *FEMS Microbiology Ecology*. 95 (1),fz165. ISSN: 0168-6496 DOI: [10.1093/femsec/fiz165](https://doi.org/10.1093/femsec/fiz165)

IF: 4.098

NAAS Score: 9.50

Cited by: 01

9. **Chattopadhyay, P.** and Banerjee, G., 2019. Corticosteroid Catabolism by *Klebsiella pneumoniae* as a Possible Mechanism for Increased Pneumonia Risk. *Current Pharmaceutical Biotechnology*, 20, pp.309-316. ISSN: 1389-2010

DOI: [10.2174/1389201020666190313153841](https://doi.org/10.2174/1389201020666190313153841)

IF: 1.743

NAAS Score: 7.82

Cited by: 00

10. **Chattopadhyay, P.**, Banerjee, G. and Banerjee, N., 2017. Distinguishing orchid species by DNA barcoding: increasing the resolution of population studies in plant biology. *Omic: A journal of integrative biology*, 21(12), pp.711-720. ISSN: 1536-2310

DOI: [10.1089/OMI.2017.0131](https://doi.org/10.1089/OMI.2017.0131)

IF: 2.610

NAAS Score: 8.37

Cited by: 06