

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

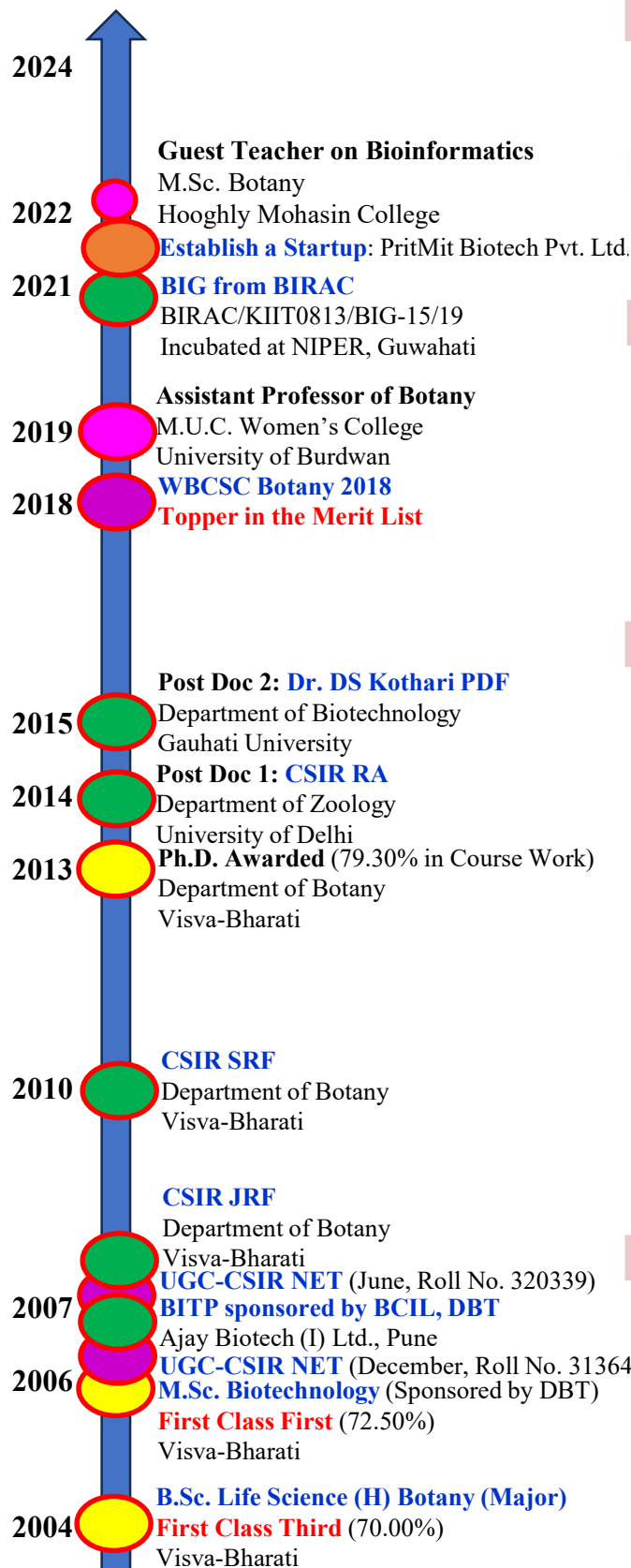
E-mail ID: pritam.biotechnol@gmail.com

Phone: +91 7001009127

website: www.drpritam.com



CARRIER INFOGRAPHICS



Academic Identity

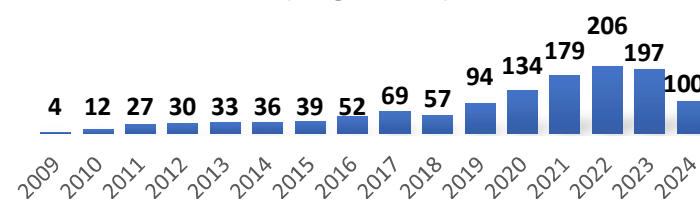
- Orcid Id:** [0000-0003-0238-5680](https://orcid.org/0000-0003-0238-5680)
- Scopus Id:** [24823937000](https://scopus.org/24823937000)
- Researcher Id:** [F-6196-2013](https://researcherid.com/F-6196-2013)
- Google Scholar Id:** [QbfffhDwAAAAJ](https://scholar.google.com/citations?user=QbfffhDwAAAAJ)
- Vidwan Id:** [196600](https://vidwan.in/196600)

Area of Research Interests

- Bio-process Engineering (No. of process developed: 03)**
- Biotic-abiotic Interactions (No. of publication: 10)**
- Molecular Markers (No. of publication: 05)**
- Bioinformatics (No. of publication: 06)**
- Herbal Product Development (No. of product developed: 12; Marked by PritMit Biotech Pvt. Ltd)**

Publication Indices

- Total No. of Academic Paper: 34;**
Book Chapter: 06; Book: 05
 - Total No. of Paper with NAAS Score > 6: 16**
 - Total No. of Citations: 1409**
 - Cumulative Impact Factor: 59.84**
 - H Index: 16** (Google Scholar 25.12.24)
 - i10 Index: 21** (Google Scholar 25.12.24)
- No. of Citations per Year**
(Google Scholar)



Collaborations



Dr. Pritam Chattopadhyay

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PROFESSIONAL EXPERIENCE

Teaching Experience



➤ Five Years (19 August, 2019 to till date) as Assistant Professor of Botany in M.U.C. Women's College, Purba-Bardhaman Teaching Undergraduate Botany Students



➤ Two Years (2022) as guest teacher on Bioinformatics for in Hooghly Mohasin College, Hooghly, teaching M.Sc. Botany



➤ Teaches Bioinformatics (1st July, 2021 to 10th July, 2021) on Faculty Exchange Programme at Bejoy Narayan Mahavidyalaya, Hooghly, teaching Undergraduate Nutrition Students

Course Developed



➤ Developed and Conducted an Add-on Course on “Bioinformatics” approved by The University of Burdwan

➤ Developed and Conducted Jointly with Dr, Sunita Bandyopadhyay Mukhopadhyay, an Add-on Course on “Industrial & Environmental Microbiology” approved by The University of Burdwan

Teaching Subjects

B.U. B.Sc. Botany NEP

B.U. M.Sc. Botany CBCS



Odd Sem.

CC_BOTN1011 Plant Diversity & Evolution: Unit 1-3
SEC_BOTN1051_Biofertilizer: Unit 1-2, 5

Even Sem.

CC_BOTN2011 Biomolecules & Cell Biology: Unit 2 & 4;
SEC_BOTN2051_Organic Cultivation And Protected Agriculture: Unit 2-3

MSBO 402: Bioinformatics

B.U. B.Sc. (H.) Botany CBCS

Add-on Course Developed



Odd 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

Even Sem.

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: Unit 2-4

Add-on course “Bioinformatics” Approved by DCT, Depart of Botany on 10.03.2023

Add-on course “Industrial & Environmental Microbiology” Approved by DCT, Depart of Botany on 10.03.2023

On-line Teaching Modules Developed



➤ www.drpritam.com

Complete course modules are developed for the students for B.Sc. And M.Sc. in Botany under the University of Burdwan

All students can access their study material on-line free after login into the students section of the website



➤ https://www.youtube.com/channel/UCZwyNv4mfwt7G_w4Uy_mZtQ

A dedicated YouTube channel was opened for students where recorded classes were uploaded time to time

Faculty Development Programme Attended



➤ Participation in the **NEP 2020 Orientation & Sensitization Programme-4** under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by The University of Burdwan, 3rd June 2024 to 12th June 2024.



➤ Participation in the **Refresher Course in Research Methods and Online Pedagogy** organized by HRDC, The University of Burdwan, 31st January-13th February, 2023.



➤ Participation in the **Orientation Programme** organized by HRDC, The University of Mumbai, 18th January-8th February, 2021.

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PROFESSIONAL EXPERIENCE

Research Experience

Independent Research 1



- “Scale-up of Nature Identical Vanillin Production from Biotransformation of Agro-waste(s)”

Sponsored by BIG from BIRAC

Incubated at Bio-NEST NIPER-Guwahati

Student: Adity Pal

Research Outcome

Two process was developed:

1. Nature Identical Vanillin Production
2. Natural Ferulic Acid Production

Post Doc. 2



- “Studies on type III secretion system (T3SS) on virulence determinants of symbiotic and pathogenic bacteria”

Dr. D.S. Kothari Fellow

Department of Biotechnology, University of Gauhati

Mentor: Prof. Pratap J. Handique

Research Outcome

Three paper was published

All the paper have NAAS Score >6

Cumulative Impact Factor 09

Post Doc. 1



- “Regulation of heat shock proteins in *Drosophila melanogaster* populations simultaneously selected for faster pre-adult development and late reproduction”

CSIR R.A.

Department of Zoology, The University of Delhi

Mentor: Prof. Mallikarjun Shakard

Research Outcome

Cloning and expression of two HSP gene

Ph.D.



- “Assessment of Genetic Diversity at Inter- and Intra-specific Levels of the Genus *Dendrobium* Swartz (Orchidaceae) through Morphometric, Micro-morphometric and Molecular Markers”

CSIR S.R.F. & CSIR J.R.F.

Department of Botany, Visva-Bharati

Mentor: Prof. Nirmalya Banerjee

Research Outcome

Barcoding was done for 25 Indigenous sp.

Drawbacks of rbcL based barcoding was rep.

Five paper was published

M.Sc.



- “Apoptotic death of *Aeromonas hydrophila* infected Macrophages of Swiss Albino Mice”

DBT Sponsored Course Curriculum

Department of Zoology, Visva-Bharati

Mentor: Prof. Shibnath Mazumder

Research Outcome

Collaborate with NICED Kolkata

TEM of 150 samples were carried out

Published one paper & one book

B.Sc.



- “Study of Microbiological Properties of Some Important Drinking Water Sources of Visva-Bharati”

B.Sc. Course Curriculum

Department of Botany, Visva-Bharati

Mentor: Prof. Narayan C. Mandal

Research Outcome

Potency of all drinking water sources of the

University was checked

Report was submitted to take proper action

Grant Received

- “Scale-up of Nature Identical Vanillin Production from Biotransformation of Agro-waste(s)”

Biotechnology Ignition Grant (BIG) Scheme from Biotechnology Industry Research Assistance Council (BIRAC); Grant No. BIRAC/KIIT0813/BIG=15/19

Incubated at Bio-NEST NIPER-Guwahati (15.02.2021 to 05.11.2022)

Sanctioned Budget: 50 Lakh



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PROFESSIONAL EXPERIENCE

Industrial Experience

Founder of Start-up

➤ PritMit Biotech Private Limited



Website: www.pritmit.com

CIN: U15549WB2022PTC253850

Start-up India Certificate No.: DIPP135803

Registered Office: Gurupally (Dakshin), Santiniketan 731235
Birbhum, West Bengal, India

Founder & Chief Consultant: Dr. Pritam Chattopadhyay

Director(s): Mrs. Tarpana Mukherjee & Mr. Nikhil Mukherjee

Transfer of IPR



➤ Afepsima

Trade Mark No.: 5064292 Dt. 28.07.2021 J.No. 2013 (Class 30)

Trade Mark Registered For: 12 Herbal Tea (Formulation Trade Secret)

Original owner: Dr. Pritam Chattopadhyay

Trade mark transferred to: PritMit Biotech Private Limited

Acting as Consultant

➤ Green Biotech Eco Solutions

Registered Office: Lamsang, Manipur

Consultancy Provided For: BIRAC Project



➤ CNCB Academy of Science and Technology

Registered Office: Patuari, Odisha

Consultancy Provided For: AKRUTI Project

Industrial Training

➤ Ajay Biotech (India) Ltd.

Registered Office: Tara Icon, Wakdewadi, Pune – 411 003

Designation: BITP Fellow (2006-2007)

Sponsored by: DBT, Government of India

Organized by: Biotech Consortium India Limited (BCIL)

Project: "Product Development and Bioefficacy study on
Biofertilizer and Biopesticide"

Mentor: Mr. N.A. Rao



Ajay Bio-tech (India) Ltd.

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Professional Experience

Academic Leadership

Convenor



- M.U.C.W.C. Data Committee (2023-2024)
- M.U.C.W.C. Website & IT Committee (2021-2022; 2022-2023; 2023-2024)
- M.U.C.W.C. NAAC Sub-committee: Criteria 3 (Research & Development) (2022-2023; 2023-2024)

Nodal-officer



- West Bengal Higher Education Portal (Banglar Uchho-siksha Portal)
- West Bengal Student's Credit Card (SCC) Portal
- Students Profile Portal



Editorial/Reviewer Board Member



➤ Editorial/Review member:

- The Journal of Biochemistry (**JBC**). Oxford University Press. ISSN: 0021-924X
- Reviews in Environmental Science and Bio/Technology (**RESB**). Springer, ISSN: 1566-6369
- Vegetos (**VTOS**). Springer. ISSN: 2229-4473



➤ Review metrics:

- **Verified review (Publons): 08**
- **Review to publication ratio (Publons): 1:0.3**



Academic Society member



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



Awards/ Recognition



- Winner of **Young Researcher Award 2023** for the publication “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” by InSc Institute of Scholars, 4th March, 2023.
- Winner of **Best Researcher Award 2021** in the International Scientist Awards on Engineering, Science and Medicine, by VDGGOOD Professional Association, India on 28-29th Aug., 2021 in Trivandrum, India.



Resource Person



- Delivered Invited Lecture on “**Metagenomics: A State of the Art Tool for Exploring Microbiome Dynamics for Improving Sustainable Agriculture**” at one week Faculty Development Programme on “Next Generation Sequencing” organized by Department of Biotechnology, Haldia Institute of Technology, 6-11 May, 2024.
- Delivered Invited Lecture on “**BIG Innovation Grant**” organized by RISE Foundation, IISER Kolkata, at Kalyani University, 18th January, 2024.
- Delivered Invited Lecture on “**Alternative & Sustainable Use of Mushroom**” at the Workshop on “Mushroom Cultivation” jointly organized by Binoy Krishna Choudhury Rural Technology Centre (BKRTC) and Centre for Innovation Entrepreneurship and Skill Development (CIESD), The University of Burdwan, 18-20 July, 2023.



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SELECTED PAPERS PUBLISHED IN JOURNAL

Sl. No.	Publication Details	Publisher	NAAS Score	Impact Factor (Clarivate Analytics)	Citation (Google Scholar)
1.	Chattopadhyay, P. , Biswas, I., and Banerjee, G. (2024). Analysing the Metagenomic Dynamics of Soil Microbiota Affected by Tea Pruning and Skiffing Methods in Tea Plantations of Dibrugarh, Assam, India. <i>Indian Journal of Microbiology</i> , https://doi.org/10.1007/s12088-024-01382-8	Springer	7.60	2.8	---
2.	Bhattacharyya, A., Banerjee, G. and Chattopadhyay, P.* , 2024. Probable Role of Type IV Pili of <i>Aeromonas hydrophila</i> in Human Pathogenicity. <i>Pathogens</i> , 13(5), p.365. ISSN: 2076-0817 https://doi.org/10.3390/pathogens13050365	MDPI	9.70	3.30	---
3.	Chattopadhyay, P. , Banerjee, G. and Handique, P.J.*, 2022, Use of an abscisic acid- producing <i>Bradyrhizobium japonicum</i> isolate as biocontrol agent against bacterial wilt disease caused by <i>Ralstonia solanacearum</i> . <i>Journal of Plant Disease & Protection</i> . ISSN: 1861-3829 https://doi.org/10.1007/s41348-022-00604-9	Springer	7.93	2.20	016
4.	Banerjee, G., Quan F.S., Mondal, A.K., Sur, S., Banerjee, P., and Chattopadhyay P.* , 2022. Interrelation between Stress Management and Secretion Systems of <i>Ralstonia solanacearum</i> : An In Silico Assessment. <i>Pathogens</i> , 11, p730. 2076-0817 https://doi.org/10.3390/pathogens11070730	MDPI	9.70	3.30	002
5.	Banerjee, G., Basak, S., Roy, T. and Chattopadhyay, P.* , 2019. Intrinsic role of bacterial secretion systems in phylogenetic niche conservation of <i>Bradyrhizobium</i> . <i>FEMS Microbiology Ecology</i> . 95 (1),fz165. ISSN: 0168-6496 https://doi.org/10.1093/femsec/fiz165	Oxford University Press	10.20	3.50	004
6.	Chattopadhyay, P. and Banerjee, G., 2019. Corticosteroid Catabolism by <i>Klebsiella pneumoniae</i> as a Possible Mechanism for Increased Pneumonia Risk. <i>Current Pharmaceutical Biotechnology</i> , 20, pp.309-316. ISSN: 1389-2010 https://doi.org/10.2174/1389201020666190313153841	Bentham Science	8.80	2.20	003
7.	Banerjee, G. and Chattopadhyay, P.* , 2019. Vanillin biotechnology: the perspectives and future. <i>Journal of the Science of Food and Agriculture</i> , 99(2), pp.499-506. ISSN: 0022-5142 https://doi.org/10.1002/JSFA.9303	Wiley	10.10	4.94	241
8.	Chattopadhyay, P. , Banerjee, G. and Sen, S.K., 2018. Cleaner production of vanillin through biotransformation of ferulic acid esters from agroresidue by <i>Streptomyces sannanensis</i> . <i>Journal of Cleaner Production</i> , 182, pp.272-279. ISSN: 0959-6526 https://doi.org/10.1016/J.JCLEPRO.2018.02.043	Elsevier	17.10	9.70	070
9.	Chattopadhyay, P. and Banerjee, G., 2018. Recent advancement on chemical arsenal of Bt toxin and its application in pest management system in agricultural field. <i>3 Biotech</i> , 8(4), p.201. ISSN: 2190-572X https://doi.org/10.1007/S13205-018-1223-1	Springer	8.80	2.90	032

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Sl. No.	Publication Details	Publisher	NAAS Score	Impact Factor (Clarivate Analytics)	Citation (Google Scholar)
10.	Banerjee, G., Gorthi, S. and Chattopadhyay, P.* , 2018, Beneficial effects of bio-controlling agent <i>Bacillus cereus</i> IB311 on the agricultural crop production and its biomass optimization through response surface methodology. <i>Anais da Academia Brasileira de Ciências</i> 90, pp.2149-2159. ISSN: 1678-2690 https://doi.org/10.1590/0001-3765201720170362	SciELO	---	1.30	021
11.	Saikia, D.J., Chattopadhyay, P. , Banerjee, G., Talukdar, B. and Sarma, D., 2018. Identification and Pathogenicity of <i>Pseudomonas aeruginosa</i> DJ1990 on Tail and Fin Rot Disease in Spotted Snakehead. <i>Journal of the World Aquaculture Society</i> , 49(4), pp.703-714. ISSN: 0893-8849 https://doi.org/10.1111/JWAS.12476	Wiley	8.80	3.40	008
12.	Chattopadhyay, P. , Banerjee, G. and Banerjee, N., 2017. Distinguishing orchid species by DNA barcoding: increasing the resolution of population studies in plant biology. <i>Omics - A journal of integrative biology</i> , 21(12), pp.711-720. ISSN: 1536-2310 https://doi.org/10.1089/OMI.2017.0131	Mary Ann Liebert	9.30	2.20	020
13.	Chattopadhyay, P. , Banerjee, G. and Mukherjee, S., 2017. Recent trends of modern bacterial insecticides for pest control practice in integrated crop management system. <i>3 Biotech</i> , 7(1), p.60. ISSN: 2190-572X https://doi.org/10.1007/S13205-017-0717-6 .	Springer	8.80	2.90	---
14.	Kulkarni, M., Gorthi, S., Banerjee, G. and Chattopadhyay, P.* , 2017, Production, characterization and optimization of actinomycin D from <i>Streptomyces hydrogenans</i> IB310, an antagonistic bacterium against Phytopathogens. <i>Biocatalysis and Agricultural Biotechnology</i> 10, pp.69–74. ISSN: 1878-8181 https://doi.org/10.1016/j.bcab.2017.02.009	Elsevier	---	3.40	027
15.	Saikia, D.J., Chattopadhyay, P. , Banerjee, G. and Sarma, D., 2017. Time and dose dependent effect of <i>Pseudomonas aeruginosa</i> infection on the scales of <i>Channa punctata</i> (Bloch) through light and electron microscopy. <i>Turkish Journal of Fisheries and Aquatic Sciences</i> , 17(5), pp.871-876. ISSN: 1303-2712 https://doi.org/10.4194/1303-2712-V17503	Central Fisheries Research Institute of Türkiye	7.30	1.50	014
16.	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. <i>3 Biotech</i> , 6(1), p.72. ISSN: 2190-572X https://doi.org/10.1007/S13205-016-0395-9	Springer	8.80	2.90	140
17.	Majumdar, T., Chattopadhyay, P. , Saha, D.R., Sau, S. and Mazumder, S., 2009. Virulence plasmid of <i>Aeromonas hydrophila</i> induces macrophage apoptosis and helps in developing systemic infection in mice. <i>Microbial Pathogenesis</i> , 46(2), pp.98-107. ISSN: 0882-4010 https://doi.org/10.1016/j.micpath.2008.11.002	Elsevier	9.80	3.30	022

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Sl. No.	Publication Details	Publisher	NAAS Score	Impact Factor (Clarivate Analytics)	Citation (Google Scholar)
18.	Chatterjee, S., Maity, S., Roy, S., Chattopadhyay, P., Sarkar, A. and Sen, S.K., 2008. Production optimization, purification and toxicological assessment of extracellular red pigment from <i>Monascus purpureus</i> in submerged culture. <i>Journal of Biotechnology</i> , 136, pp.S743-S744. ISSN: 0168-1656 https://doi.org/10.1016/j.jbiotec.2008.07.1770	Elsevier	10.10	4.10	002

Published book chapters

Sl. No.	Publication Details	Publisher	Citation (Google Scholar)
1.	Bhattacharyya, A., Ghosh, K. and Chattopadhyay, P. ,* 2024. In Silico Modelling of Interaction Between <i>Aeromonas hydrophila</i> Invasin and Human β -Integrins in Pathak, S. (Ed.) "Proceedings of International Seminar on Current Advancement in Science towards Our Better Future". pp.28-38. ISBN: 9789334174373	Dept. of Chem., RRR Mahavidyalaya & Haldia Govt. College	---
2.	Chattopadhyay, P. and Banerjee, G., 2020. Arms race between insecticide and insecticide resistance and evolution of insect management strategies in Srivastava, PK., Singh, VP., Singh, A., Tripathi. DK., Singh, S., Prasad, SM. and Chauhan D.K. (Eds.) " <i>Pesticides in Crop Production: Physiological and Biochemical Action</i> ", pp.109-130. ISBN: 9781119432203 https://doi.org/10.1002/9781119432241.ch7	Wiley	001
3.	Chattopadhyay P. , Banerjee N., 2015. <i>In-silico re-evaluation of DNA sequences for drawing phylogeny of Orchids with special emphasis on Dendrobium Sw.</i> in Pullaiah T. (Ed.) " <i>Biotechnological Approaches for Sustainable Development</i> ", pp.55-82. ISBN: 9789351302520	Regency Publication, New Delhi; Astral International Pvt. Ltd.	---
4.	Chattopadhyay, P. , Chaudhary B. and Banerjee, N., 2015. Morphological and Micromorphological differentiation in <i>Dendrobium aphyllum</i> (Roxb.) of Eastern India in Ray, S. and Sen S.K. (Eds.) "Molecular and biotechnological Approach to Resource Utilization : Microbes to Angiosperms". Levant Books & Visva-Bharati. ISBN : 978-93-84106-04-1	Levant Publication, Kolkata and Visva-Bharat	---
5.	Banerjee, G. and Chattopadhyay, P. ,* 2013. Biocompatibility of polymer composites for dental applications in Choudhuri, S. (Ed.) "Accelerating Science" (Vol. 3), pp.112-150. ISBN: 93-82661-24-7	Publication Department, Shikshak Karmachari Sabha, Jamuguri H.S. School, Jamiguri, Assam	---
6.	Sinha S., Chattopadhyay P. , Sen S.K., 2011. Microbial Degradation of Recalcitrant PAHs-Microbial Diversity Involving Remediation Process in Singh S.N. (Eds.) " <i>Microbial Degradation of Xenobiotics, Environmental Science and Engineering</i> ", pp 395-410, ISBN: 978-3-642-23788-1. https://doi.org/10.1007/978-3-642-23789-8_15	Springer	009

➤ I hereby declare that all the information given above is true and correct to the best of my knowledge. All the information shared in the resume is correct, and I take full responsibility for its correctness. I solemnly declare that the information in this biodata is true to the best of my knowledge and belief.

Pritam Chattopadhyay
28.17.2024