

BIODATA OF DR. P. K. DAS MOHAPATRA

Name :DR. PRADEEP KUMAR DAS MOHAPATRA
Designation : Professor
Department : Microbiology
Director, "Prof. A. K. Bothra Environment Conservation Centre", Raiganj University
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Research Experience : 25+ Years
Teaching Experience (PG): 17+ Years
Teaching Experience (UG): 7+ years
Citations (10.01.26): 7003
h-index: 47
i10-index: 143

ACADEMIC CREDENTIALS

2008 Ph.D. Degree in Microbiology from Vidyasagar University, Midnapore - 721 102, West Bengal.

2001 M.Sc. in Botany (spl: Microbiology) from Vidyasagar University, Midnapore - 721 102, West Bengal (First Class).

1998 Bachelors in Botany (Microbiology) from Utkal University, Bhubaneswar, Orissa (First Class).

PROFESSIONAL EXPERIENCE

Sl.No.	Name of the organization	Designation	Period of service
1	Raiganj University	Dean Faculty of Science & Management	03.11.2025 to Continuing
2	Raiganj University (Dept. of Microbiology)	Professor	06.02.2021 to continuing
3	Raiganj University	Associate Professor	06.02.2018 to

	(Dept. of Microbiology)		05.02.2021
4	Vidyasagar University (Dept. of Microbiology)	Lecturer/ Assistant Professor	01.08.2008 to 05.02.2018
5	Raiganj University PAKB Environment Conservation Centre	Director	Continuing
6	Raiganj University Business Incubation & Innovation Centre	Director (Additional Charge)	Continuing

ADMINISTRATIVE EXPERIENCE

1. Member of Executive Council of Raiganj University from 01.04.2019 to 31.03.2020.
2. Acting as Director of "Professor A. K. Bothra Environment Conservation Centre", Raiganj University.
2. HOD in the Dept. of Microbiology, Raiganj University from 09.10.2018 to 08.10.2020 and 11.10.2022 to 21.10.2024.
3. Secretary of Ph.D. committee, Dept. of Microbiology, Raiganj University from 28.11.2018 to 08.10.2020 and 11.10.2022 to 21.10.2024.
4. Acting as Member – Secretary of Institutional Ethics Committee of Raiganj University since 17.06.2019.
5. Acting as a member of Board of Research Studies, Dept. of Microbiology, Raiganj University since 09.03.2018.
6. Acting as a Member of Academic and Research Advisory Committee of Midnapore City College.
7. Former Member, Ph.D. committee, Department of Microbiology, Vidyasagar University.
8. Former Member, PG Board of Studies of Microbiology, Vidyasagar University.
9. Former Member, Board of Studies of PG Diploma on Quality Control and Assurance in Microbial Technology, Vidyasagar University.
10. Former Member, Sports Committee, Vidyasagar University.
11. Former Member, Student Teacher Committee, Dept. of Microbiology, Vidyasagar University.

RESEARCH FUNDING RECEIVED

<i>Title of the Project</i>	<i>Funding Agency</i>	<i>Grant Received (Rs.)</i>	<i>Date of implementation</i>	<i>Remarks</i>
Production of microbial tannase and its application in detannification of foodstuff. PI: Dr. P. K. Das Mohapatra	UGC Govt. of India	5.67 Lakh	01.05.2009	Completed 30.04.2012
Assessment of efficiency and antimicrobial activity of Biostadt aqua products. PI: Dr. P. K. Das Mohapatra	Biostadt India Ltd.	5.36 Lakh	26.05.2011	Completed

Study of probiotic, bioremediating and other related functions of Biostadt aqua products. PI: Dr. P. K. Das Mohapatra	Biostadt India Ltd.	3.30 Lakh	10.08.2018	Completed
Analysis of acute toxicity of probiotic formulations: Uni-Ecosense and Uni-Max. PI: Dr. P. K. Das Mohapatra	Sanzyme Biologics (P) Ltd.	2.34 Lakh	01.03.2019	Completed
Science Technology and Innovation Hub for ST Community in Raiganj University PI: Dr. P. K. Das Mohapatra	DST, Govt. of India	2.41 Crore	-	Submitted
Role of bacteriocinogenic probiotics on cervical cancer. FN:5/7/85/MH/Adhoc/2020-RBMCH (6-12-2021) Co-PI: Dr. P. K. Das Mohapatra	ICMR, Govt. of India	52.74618 Lakh	30.12.2021	Completed
Potential evaluation of some aquaculture healthcare products manufactured by The Waterbase Ltd.	The Waterbase Ltd., Chennai	3.10 Lakh	20.04.2024	Completed
Development of innovative diagnostics for fungal diseases in India: Addressing a Neglected Public Health Concern.	ICMR, Govt. of India	48.85196 Lakh	15.09.2025	Ongoing

AWARDS

1. **Junior scientist** of the year award 2008 by National Environmental Science Academy, New Delhi – 110 019.
2. **Environmentalist** of the year award 2009 by National Environmental Science Academy, New Delhi – 110 019.
3. Awarded **Fellow** of the Society for Applied Biotechnology (FSAB), India from 2011.
4. Awarded **Highly Cited Research Award** on December 2016 By Elsevier in recognition of the contribution to the journal of Biocatalysis and Agricultural Biotechnology.

REFRESHER COURSE

Participated and completed a DBT sponsored refresher course in the subject “*Application of Bioinformatics on Modern Biology*” during 8th to 31st March 2010 at BIF Centre, Vidyasagar University.

Participated and completed the DBT-sponsored 21 days refresher course on “*Application of Metagenomic and Proteomic Approaches in the Crossroads of Biological Sciences*” during 25th October to 18th November 2017 at Vidyasagar University.

PATENT

Filed one patent entitled "A novel process-development for bioremediation of cadmium and lead using hot spring bacterial consortium". Application No. 427/KoL/2014, Journal No. 41/2015, Date of filing: 03/04/2014.

Mandal, A. K., Some, S., Bhuimali, A., Biswas, K., Kumar, A., Neog, K., Sen, I. K., Mandal, A., Das, S., Pradhan, S., Dutta, S., **Das Mohapatra, P. K.**, Tiwary, K., Ocsoy, I., Franco, O. L., Yilmaz, M. D., Ince, I. A., & Kati A. Biogenic Ag nanoparticulate system involving Morusindica L. V1 leaf extract and it's method of manufacture. (Application no. -201931011330, Agency- India).

TRAINING PROGRAM

Participated and completed SAKSHAM-IT *Champion Training Program* organized by Microsoft and Sakshat, The National Mission on Education Through ICT (NME-ICT) during 26th February to 8th March 2013 at Central Library, Vidyasagar University.

Participated and completed TEQIP-II Sponsored short term course on "Bioremediation of Industrial Wastes for a Greener World" during 08th to 12th December 2014 at NIT, Durgapur- 713209, W.B.

BOOK PUBLISHED

1. Microbial Fermentation and Enzyme Technology

Edited By : Thatoi HN., **Das Mohapatra P.K.**, Mohapatra S. and Mondal K.C.

Publisher: CRC Press, Taylor and Francis Group

ISBN 9780367183844 (2020)

<https://www.routledge.com/Microbial-Fermentation-and-Enzyme-Technology/Thatoi-Mohapatra-Mohapatra-Mondal/p/book/9780367183844>

2. Title: Microorganisms, Biofertilizers and Sustainable Agriculture Part A

Edited by: Debasis Mitra, Bhaswati Mayee Mahakur, Bahman Khoshru and **Pradeep K. Das Mohapatra**

Publisher: *Scholar's Press*, Baznīcasiela 13-17, Rīgā, LV-1010 Latvia, European Union

ISBN: 978-613-8-93946-7

<https://www.morebooks.shop/store/fr/book/microorganisms,-biofertilizers-and-sustainable-agriculture-part-a-/isbn/978-613-8-93946-7>

3. Title: Microorganisms, Biofertilizers and Sustainable Agriculture Part B

Edited by: Bahman Khoshru, Debasis Mitra, Bhaswati Mayee Mahakur, and **Pradeep K. Das Mohapatra**

Publisher: *Scholar's Press*, Baznīcasiela 13-17, Rīgā, LV-1010 Latvia, European Union

ISBN: 978-613-8-93945-0

<https://www.amazon.com/Microorganisms-Biofertilizers-Sustainable-Agriculture-Part/dp/613893945X>

4. Title: Arbuscular Mycorrhizal Fungi: For Nutrient, Abiotic and Biotic Stress Management in Rice.

Edited by: Periyasamy Panneerselvam, Pradeep Kumar Das Mohapatra, Amaresh Kumar Nayak, Debasis Mitra, Kulandaivelu Velmourougane, Sergio De Los Santos-Villalobos.

Publisher: CRC Press, Taylor and Francis Group

ISBN: 1032406410

<https://www.amazon.in/Arbuscular-Mycorrhizal-Fungi-Nutrient-Management/dp/1032406410>

ORIGINAL RESEARCH PAPERS = 222

Some are:

1. Banerjee A., Kanwar M., Mondal S., Mukherjee S., Parhi P., Maiti S., Mondal K.C., Thatoi H., **Das Mohapatra P.K.** (2025) Study of tannic acid stress on bacteria and role of gal enzyme cluster for gallic acid metabolism to higher extent through molecular docking with special reference to *Stenotrophomonas maltophilia* PKA14. *Systems Microbiology and Biomanufacturing*. Accepted. IF: 3.5
2. Paul M., Banerjee A., Maiti S., Mitra D., **Das Mohapatra P.K.**, Thatoi HN (2025) Evaluation of substrate specificity and catalytic promiscuity of *Bacillus albus* cellulase: an insight into *in silico* proteomic study aiming at enhanced production of renewable energy. *J. of Biomolecular Structure and Dynamics*, 43 (6): 3076-3098. IF:2.7
3. Biswas I., Mitra D., Das S., Sarkar D., **Das Mohapatra P.K.** (2024) Enhanced antibacterial effect of natural tannin stabilized silver nano particles against human pathogens: A target toward FtsZ proteins. *Journal of Trace Elements and Minerals*. 10:100200, ISSN: 2773-0506.
4. Chattaraj S., Mitra D., Chattaraj M., Ganguly A., Thatoi H.N., **Das Mohapatra P.K.** (2024) Brewers' spent grain as fish feed ingredient: evaluation of bio-safety and analysis of its impact on gut bacteria of *Cirrhinus reba* by 16S metagenomic sequencing, *Current Res. In Microbial Sciences* IF:4.8, ISSN:2666-5174. Accepted, 03.10.24.
5. Chattaraj S., **Das Mohapatra P.K.** (2024) Immunostimulatory and antagonistic potential of the methanolic extract of *Oedogonium intermedium* SCB in *Cirrhinus reba* challenged with *Aeromonas hydrophila*, *Aquaculture International*, 32:2523-2548, IF: 2.5, ISSN: 0967-6120. (Sep23)

6. Chattaraj S., Chattaraj M., Mitra D., Gganguly A., Thatoi H.N., **Das Mohapatra P.K. (2024)** 16S amplicon sequencing of the gastrointestinal microbiota of *Cirrhinus reba* and isolation of an autochthonous probiotic using culture based approaches, *Systems Microbiology and Biomanufacturing*, Accepted, ISSN:2662-7655. (June24) IF:3.5.
7. Paria P., Chakraborty H.J., Pakhira A., Devi M.S., **Das Mohapatra P.K.**, Behera B.K. **(2024)** Identification of virulence-associated factors in *Vibrio parahaemolyticus* with special reference to moonlighting protein: a secretomics study, *International Microbiology*, 27:765-779. **IF:2.9**, ISSN:1139-6709. (Sep 23)
8. Mitra D., Panneerselvum P., **Das Mohapatra P.K.**, Pellegrini M., Selvakumar G. **(2024)** Emerging frontiers in microbial-mediated utilization of crop residues for economically valuable biomaterials. *Current Res. In Microbial Sciences*, 7:100225. **IF:4.8**, ISSN:2666-5174. (09.02.24)
9. Samantaray A., Chattaraj S., Mitra D., Ganguly A., Kumar R., Gaur A., **Das Mohapatra P.K.**, Santos-Villalobos S. de los, Rani A., Thatoi H.N. **(2024)** Advances in microbial based bio-inoculum for amelioration of soil health and sustainable crop production. *Current Res. In Microbial Sciences*, 7:100251. **IF:4.8**, ISSN:2666-5174. (20.06.24)
10. Chattaraj S., Mitra D., Ganguly A., Thatoi H.N., **Das Mohapatra P.K. (2024)** A critical review on the biotechnological potential of Brewers waste: Challenges and future alternatives. *Current Res. In Microbial Sciences*, 6:100228. **IF:4.8**, ISSN:2666-5174. (27.02.24)
11. Ganguly A., Chattaraj S., Ganguly M., Chattaraj M., Banerjee A., Mandal A., Khan M.A., Sen S.K. **Das Mohapatra P.K. (2024)** Effect of three probiotic *Bacillus* strains supplemented feeds on growth, carcass composition and blood parameters of *Clarias magur* (Hamilton), *J. of Applied Aquaculture*, **IF:1.3** (March 24), ISSN: 1045-4438.

12. Chattaraj S., Behera B.K., **Das Mohapatra P.K. (2024)** Effective valorization of *Chlorella* biomass of brewers spent grain substituting fish meal and soybean meal in the diet of herbivorous fish *Cirrhinus reba* for higher growth, digestibility and sustainable cultivation, *J. of Applied Phycology*, 36:217-132. (oct23), **IF:3.2**, ISSN:0921-8971.

13. Biswas I., Soren J.P., **Das Mohapatra P.K. (2024)** Preparation of metabiotic curd and optimization of tannase and gallic acid production by probiotic *Lactiplantibacillus plantarum* PKI15, *Biocatalysis and Agri Biotechnol*, 56:103041, (Feb 24), **IF:3.4**, ISSN:1878-8181.

14. Mitra D., Panneerselvam P., Chidambaramathan P., Nayak A.K., Priyadarshini A., Senapati A., **Das Mohapatra P.K. (2024)** Strigolactone GR24-mediated mitigation of phosphorus deficiency through mycorrhization in aerobic rice, *Current Res. In Microbial Sc.* 6:100229. **IF:4.8**, ISSN:2666-5174. (March 24).

15. Mitra D., Afreen S., **Das Mohapatra P.K.**, Abdalla M. **(2024)** Inhibition of respiratory syncytial virus by Daclatasvir and its derivatives: synthesis of computational derivatives as a new drug development, *J. of Biomolecular Structure and Dynamics* 1-23. **IF: 3.2** (13 Jan 24).

16. Paul M., **Das Mohapatra P.K.**, Thatoi H.N. **(2023)** Purified cellulase-mediated simultaneous sugar utilization by *Bacillus albus* isolated from Similipal, Odisha, India, *J. of Basic Microbiology*, 1-22., ISSN:0233-111X. **IF:3.5**. (7 April 23).

17. Chattaraj S., Ganguly A., Mitra D., Mitra D., **Das Mohapatra P.K. (2023)** Study of intestinal bacteria of *Cirrhinus reba* and characterization of a new probiotic bacteria: an initiative to save the threatened species of cirrhinus, *Applied Biochemistry and Microbiology* 59:833-849, **IF: 1.0**, ISSN:0003-6838.

18. Sen S.K., Raut S., Chattaraj S., **Das Mohapatra P.K. (2023)** Application of novel hot spring bacterial consortium in Arsenic (III) bioremediation: A model based

approach for clean environment, *Sustainable Chemistry and Pharmacy*, 36:101329, **IF:5.5**, ISSN:2352-5541.(5Nov 23).

19. Khoshru B., Mitra D., Joshi K., Adhikari P., Rion Md S.I., Fadiji A.E., Alizadeh M., Priyadarshini A., Senapati A., Sarikhani M.R., Panneerselvam P., **Das Mohapatra P.K.**, Sushkova S., Minkina T., Keswani C. (2023) Decrypting the multi-functional biological activators and inducers of defense responses against biotic stress in plants, *Heliyon*, 9:e13825 (Feb 23), **IF:4.0**, ISSN:
20. Chaudhary P., Mitra D., **Das Mohapatra P.K.**, Docea A.O., Myo E.M., Janmeda P., Martorell M., Iriti M., Ibrayeva M., Sharifi-Rad J., Santini A., Romano R., Calina D., Cho W.C. (2023) *Camellia sinensis*: Insights on its molecular mechanisms of action towards nutraceutical, anticancer potential and other therapeutic applications, *Arabian J. of Chemistry*, 16:104680. (February 23), **IF:5.3**, ISSN:1878-5352.
21. Rabari A., Ruparelia J., Jha C.K., Sayyed R.Z., Mitra D., Priyadarshini A., Senapati A., Panneerselvam P., **Das Mohapatra P.K.** (2023) Articulating benefical rhizobacteria-mediated plant defenses through induced systemic resistance: A review, *Pedosphere*, 33(4): 556-566. IF: 5.2, ISSN: 2210-5107 (August 23).
22. Mitra D., Adhikari P., Djebaili R., Thathola P., Joshi K., Pellegrini M., Adeyemi N.O., Khoshru B., Kaur K., Priyadarshini A., Senapati A., Gallo M.D., **Das Mohapatra P.K.**, Nayak A.K., Shanmugam V., Panneerselvam P. (2023) Biosynthesis and characterization of nanoparticles, its advantages, various aspects and risk assessment to maintain the sustainable agriculture: Emerging technology in modern era science, *Plant Physiology and Biochemistry*, 196: 103-120. (March 2023). IF: 6.1, ISSN:0981-9428.
23. Mitra D., Nayeri F.D., Sansinenea E., Ortiz A., Bhatta B.B., Adeyemi N.O., Janeeshma E., Al-Ani L.K.T., Sharma S.B., Boutaj H., Priyadarshini A., Chakroborty D., Senapati A., Guerra S.B.E., Chidambaranathan P., **Das Mohapatra P.K.**, Panneerselvam P. (2023) Unraveling arbuscular mycorrhizal

fungi interaction in rice for plant growth development and enhancing phosphorus use efficiency through recent development of regulatory genes, *J. Plant Nutrition*, 46(13):3184-3220. **IF:2.4**, ISSN:

24. Mitra D., Panneerselvam P., Senapati A., Chidambaranathan P., Nayak A.K., **Das Mohapatra P.K. (2023)** Arbuscular mycorrhizal fungi response on soil phosphorus utilization and enzymes activities in aerobic rice under phosphorus deficient conditions. *Life*, 13:1118. IF:3.2, ISSN: 2075-1729. (30.04.23)
25. Biswas I., **Das Mohapatra P. K. (2023)** Recent advancement in metabiotics: A consortium with bioactive molecules after fermentation by probiotic bacteria with multidisciplinary application potential and future solution in health sector. *Bioresource Technology Reports*, 23:101583. **IF:4.3**.
26. Khoshru B., Mitra D., Nosratabad A. F., Reyhanitabar A., Mandal L., Farda B., Djebaili R., Pellegrini M., Guerra-Sierra B. E., Senapati A., Panneerselvam P., **Das Mohapatra P. K. (2023)** Enhancing manganese availability for plants through microbial potential: a sustainable approach for improving soil health and food security. *Bacteria*, 2:129-141.
27. Mitra D., Afreen S., **Mohapatra P. K.**, Abdalla M. **(2023)** Threat of respiratory syncytial virus infection knocking the door: a proposed potential drug candidate through molecular dynamics simulations, a future alternative, *J. of Molecular Modeling*, 29: 91, **IF:2.1**, ISSN:
28. Singha K., Banerjee A., Jana A., Bandyopadhyay P., Maiti S., Pati B.R., **Das Mohapatra P. K. (2022)** Molecular exposition of broad spectrum antibacterial efficacy by *p*-coumaric acid from an edible mushroom *Termitomyces heimii*: *In vitro* and *in silico* approach. Accepted. *Systems Microbiology and Biomanufacturing*. **IF:3.5**
29. Ortega-Urquieta M.E., Valenzuela-Ruiz V., Mitra D., Hyder S., Elsheery N.I., **Das Mohapatra P.K.**, Parra-Cota F.I., Santos-Villalobos S.D.L. **(2022)** Draft Genome Sequence of *Priestia* sp. Strain TSO9, a Plant Growth-Promoting Bacterium

Associated with Wheat (*Triticum turgidum* subsp. *durum*) in the Yaqui Valley, Mexico. *Plants* **2022**, *11*, x. <https://doi.org/10.3390/xxxxx>.

30. Rai H., Gupta R.K., Verma D., Gupta S., Mitra D., **Das Mohapatra P.K.**, Al-Meshal A.S., Sami R., Ashour A.A., and Shafie A., **(2022)** Assessment of antimicrobial activity of Lichenic compounds isolated from *Menegazzia terebrata* (Hoffm.) A. Massal. Accepted, *J. of Biobased Materials and Bioenergy*, ISSN:1556-6560. **IF:1.126**, US.
31. Mitra D., **Das Mohapatra P.K.**, **(2023)** In silico comparative structural and compositional analysis of glycoproteins of RSV to study the nature of stability and transmissibility of RSV A. *Systems Microbiology and Biomanufacturing*, *3*:312-327. ISSN: 2662-7655, China.
32. Mandal A., Sarkar B., Mandal H., Chakraborty A., **Das Mohapatra P.K.**, Dam P., Mondal R., Some S., Sadat A., Ghati A., Neog K., Mandal S., Ince I.A. **(2022)** Draft genome sequence of a multi-drug resistant strain *Enterobacter* sp. ASE isolated from the gut of a domestic silkworm, *Bombyx mori* L. *Microbiology Resource Announcements*. *11*(6):00081.
33. Mitra D., Pal A.K., **Das Mohapatra P.K.** **(2022)**. Intra-protein interactions of SARS-CoV-2 and SARS: a bioinformatic analysis for plausible explanation regarding stability, divergency and severity. *Systems Microbiology and Biomanufacturing*, Accepted. ISSN: 2662-7655, China. IF:3.5.
34. Mitra D., Saritha B., Janeeshma E., Gusain P., Khoshru B., Nouh F.A.A., Rani A., Olatunbosun A. N., Ruparelia J., Rabari A., Mosquera-Sanchez L.P., Mondal R., Verma D., Panneerselvam P., **Das Mohapatra P.K.**, Guerra S.B.E. **(2022)** Arbuscular mycorrhizal fungal association boosted the arsenic resistance in crops with special responsiveness to rice plant. *Environmental and Experimental Botany*, *193*: 104681. **IF: 6.246.**, ISSN: 0098-8472. Netherlands. **ISSN: 0098-8472**
35. Paria P., Chakraborty H.J., Pakhira A., **Das Mohapatra P.K.**, Parida P.K., Behera B.K. **(2022)**. Trh positive strain of *Vibrio parahaemolyticus* induce immunity by modulating MAPK pathway: A molecular pathogenic insight in immune related gene regulation. *Microbial Pathogenesis*, *164*: 105436. **IF:3.848**, ISSN: 0882-4010

36. Biswas I., Mitra D., Mitra D., Chattaraj S., Senapati A., Chakraborty A., Basak G., **Das Mohapatra P.K. (2022)**. Application of egg shell with fortified vermicompost in Capsicum cultivation: A strategy in waste management. *Int. J. of Recycling of Organic Waste in Agriculture*. 11:451-461. IF: **1.65**, ISSN: 2195-3228, Iran.

37. Mitra D., Mondal R., Khoshru B., Shadangi S., **Das Mohapatra P.K.**, Panneerselvam P. (2021) Rhizobacteria mediated seed bio-priming triggers the resistance and plant growth for sustainable crop production. *Current Res. In Microbial Sci*, 2:100071, IF:**4.8**, ISSN:2666-5174 (September 21)

38. Paria P., Behera B.K., **Das Mohapatra P.K.**, Parida P.K. (2021) Virulence factor genes and comparative pathogenicity study of *tdh*, *trh*, and *tlh* positive *Vibrio parahaemolyticus* strains isolated from Whiteleg shrimp, *Litopenaeus vannamei* (Boone, 1931) in India. *Infection, Genetics and Evolution*, 95: 105083. IF: **2.6**, ISSN:1567-7257.

39. Banerjee A., Kanwar M., **Das Mohapatra P.K.**, Saso L., Nicoletti M., Maiti S. (2021). Nigellidine (Nigella sativa, black-cumin seed) docking to SARS CoV-2 nsp3 and host inflammatory proteins may inhibit viral replication/transcription and FAS-TNF death signal via TNFR 1/2 blocking. *Natural Product Res.* Accepted. IF: **2.861**. ISSN:1478-6419.

40. Paul M., Mohapatra S., **Das Mohapatra P. K.**, Thatoi H. N. (2021) Microbial cellulases- an update towards its surface chemistry, genetic engineering and recovery for its biotechnological potential. *Bioresource Technology*, 340:125710 ISSN: 0960-8524, IF: **9.642**

41. Mitra D., **Das Mohapatra P. K. (2021)** Cold adaptation strategy of psychrophilic bacteria: an in-silico analysis of isocitrate dehydrogenase. *Systems Microbiology and Biomanufacturing*, Accepted, ISSN: 2662-7655, China. 1:483–493. IF:3.5

42. Mitra D., Rad K.V., Chaudhary P., Ruparelia J., Mahapatra S.S., Boutaj H., **Das Mohapatra P.K.** Panneerselvam P. (2021) Involvement of strigolactone hormone in root development, influence and interaction with mycorrhizal fungi in plant:

Mini-review. *Current Research in Microbial Sciences*, 2:100026. ISSN: 2666-5174, USA. IF: 5.8.

43. Verma D., Mitra D., Paul M., Chaudhary P., Kamboj A., Thatoi H. N., Janmeda P., Panneerselvam P., Shrivastav R., Jain D., Pant K. **Das Mohapatra P. K. (2021)** Potential inhibitors of SARS-CoV-2 (COVID 19) proteases PLpro and Mpro/3CLpro: molecular docking and simulation studies of three pertinent medicinal plant natural components. *Current Research in Pharmacology and Drug Discovery (Elsevier)*. 2: **100038**. ISSN:2590-2571.

44. Mitra D., Alondra M., Rodriguez D., Fannie I., Cota P., Khoshru B., Panneerselvam P., Moradi S., Sagarika M. S., Andelković S., Santos-Villalobos S. D. L. **Das Mohapatra P. K. (2021)** Amelioration of thermal stress in crops by plant growth-promoting rhizobacteria. *Physiological and Molecular Plant Pathology*, 115:101679 **(IF: 2.747)**. ISSN:0885-5765

45. Mitra D., Mondal R., Khoshru B., Uniyal N., Myo E. M., Boutaj H., Beatriz E., Guerra T. K. Radha, Mahakur B., Senapati A., Panneerselvam P., Ganeshamurthy A. N., Andelković S., Vasić T., Rani A., **Das Mohapatra P. K. (2022)**. Enhanced plant growth, nutrient acquisition and crop protection using actinobacteria: An advancement in soil, plant and microbial multifactorial interaction. *Pedosphere*. 32(1): 149-170 **(IF: 3.911)**. Doi: 10.1016/S1002-0160(21)60042-5, ISSN: 1002-0160

46. Mitra D., Paul M., Thatoi H.N., **Das Mohapatra P.K. (2021)** Study of potentiality of Dexamethasone and its derivatives against Covid-19. *Journal of Biomolecular Structure and Dynamics*, Accepted **IF:3.310**, ISSN: 0739-1102, UK.

47. Mitra D., Guerra Sierra B. E., Khoshru B., Santos-Villalobos S., Krüger C., Chaudhary P., Shahri F. N., Djebaili R., Olatunbosun A. N., El-Ballat E. M., El-Esawi M.A., Moradi S., Mondal R., Senapati A., Panneerselvam P., **Das Mohapatra P. K. (2021)** Impacts of arbuscular mycorrhizal fungi on rice growth, development, and stress management with a particular emphasis on strigolactone effects on root development. *Communications in Soil Science and Plant Analysis*. 52(14):1591-1621. **IF:0.767**.(US), ISSN: 1532-2416.

48. Mitra D., Djebaili R., Pellegrini M., Mahakur B., Sarker A., Chaudhary P., Khoshru B., Gallo M.D., Kitouni M., Barik D.P., Panneerselvam P., **Das Mohapatra P.K. (2021)** Arbuscular mycorrhizal symbiosis: plant growth

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128. Bandopadhyay P., **Das Mohapatra P. K.** (2009). Effect of a probiotic bacterium *Bacillus circulans* PB7 in the formulated diets: on growth, nutritional quality and immunity of *Catla catla* (Ham.). *Fish Physiol Biochem.*, 35(3): 467 - 478. ISSN: 0920-1742, **IF: 2.794**. (Netherlands).

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REVIEW PAPER - 07

1. Jana A., Halder S.K., Banerjee A., Paul T., Pati B.R., Mondal K.C., **Das Mohapatra P.K.** (2014). Biosynthesis, structural architecture and biotechnological potential of bacterial tannase: a molecular advancement. *Bioresource Technology*. 157: 327-340. ISSN:0960-8524, IF: 9.642 (Netherlands). (API:25+20, 31.5).
2. Sarker K., Dutta S., **Das Mohapatra P.K.** (2014). Fluorescent pseudomonads: Milestones achieved in the last two decades. *African J. of Microbiology Research*. 8(15): 1544-1561. IF: 0.65, ISSN:1996-0808. (API:25+5, 9).
3. De B.C., Meena D.K., Behera B.K., Das P., **Das Mohapatra P.K.**, Sharma A.P. (2014). Probiotics as immunomodulator in fish and shellfish culture (a review). *Fish Physiol Biochem.* 40: 921-971. ISSN:0920-1742, IF: 2.794. (Netherlands). (API:25+10, 10.5).
4. Paul T., Jana A., Mandal A.K., Mandal A., **Das Mohapatra P.K.**, Mondal K.C. (2016). Bacterial keratinolytic protease, imminent starter for NextGen leather and detergent industries. *Sustainable Chemistry and Pharmacy*. 3:8-22. ISSN:2352-5541. (Germany). (API:25+0, 7.5). IF:4.508.
5. Mitra D., Khoshru B., **Das Mohapatra P.K.**, Panneerselvam P. (2020) Beneficial interaction of Arbuscular Mycorrhizal fungi in plant to improve the uptake of phosphorus. *Indian J. of Plant and Soil*, 7(2): July – December. ISSN: 2348-9677.
6. Biswas I., Mitra D., **Das Mohapatra P.K.** (2022) Structural and catalytic advancement of fungal tannase: A proeomic contribution in industrial applicability. *Bioresource Technology Reports*. Accepted. ISSN: 2589-014X.
7. Chattaraj S., Ganguly A., Mondal A., **Das Mohapatra P.K.** (2022) A review of the role of probiotics for the control of viral diseases in aquaculture. *Aquaculture International*, Accepted. ISSN: 0967-6120, IF: 2.616, Switzerland.

- Mitra D., Santos-Villalobos S., Cota FIP., Montelongo AMG., Blanco EL., Lira VL., Olatunbosun AN., Khoshru B., Mondal R., Chidambaranathan P., Panneerselvam P., **Das Mohapatra P.K. (2023)** Rice (*Oryza sativa* L.) plant protection by using dual biological control and plant growth promoting agents: current scenarios and future prospects. *Pedosphere*. 33(2):268-286, IF:3.911, ISSN:1002-0160, China.

POPULAR ARTICLE -01

- Barman P., **Das Mohapatra P.K.**, Bandyopadhyay P. (2015). Commercialisation process of probiotics bacteria for aquaculture systems. *AQUA Culture Asia Pacific Magazine*, January/February: 39-41. (API:15+5=20, 8).

BOOK CHAPTERS - 21

- Das Mohapatra P.K.**, Mondal K.C. and Pati B.R. (2012). Application of immobilized microbial cells for enzyme production with special reference to tannase. In: Thatoi H.N. and Mishra B.B. (ed) *Microbial Biotechnology:Methods and Applications*, Narosa Publishing House, New Delhi, pp 20-32. ISBN: 978-81-8487-131-9.
- Das Mohapatra P.K.**, Mondal K.C. and Pati B.R. (2013). Tannin – an effective agent against HIV-1. In: Thatoi H.N. and Mishra B.B. (ed) *Advances in Biotechnology*. Chapter – 20, 419-428. Studium Press LLC. USA, ISBN:1-626990-13-1.
- Mondal K.C., Ghosh K., Mitra B., Parua S. and **Das Mohapatra P.K.** (2016). Rice-based fermented foods and beverages: Functional and nutraceutical properties. In: Ray R.C. and Montet D. (ed) *Fermented Foods. Part 2. Technological Interventions*. CRC Press, Boca Raton, USA. Accepted. ISBN: 9781315205359
- Sahoo D.K., Thatoi H.N., Mitra B., Mondal K.C. and **Das Mohapatra P.K.** (2016). Advances in microbial keratinase and its potential applications. In: Kumar P. and Patra J.K. (ed) *Microbial Biotechnology (Vol-1: Applications in Agriculture and Environment)*. Springer, ISBN: 978-981-10-6846-1, pp.105-134.
- Jana A., Ghosh D., Dasgupta D., **Das Mohapatra P.K.** and Mondal K.C. (2017) Biopulping of lignocellulose. In: Kuila A. and Sharma V. (ed) *Lignocellulosic Biomass Production and Industrial Applications*. John Wiley & Sons, ISBN: 978-1-119-32360-0.
- Mitra D., Islam R.N.U., Banerjee S., Bandyopadhyay A.K. and **Das Mohapatra P.K.** (2019), Structural Signature and Salt-Bridge Energetics of Halophilic, Thermophilic and Mesophilic Nucleoside Diphosphate Kinase, in *Biotechnology and Biological Sciences*; Taylor and Francis, pp.:107-113. ISBN -978-0-367-43161-7
- Mitra D. And **Das Mohapatra P.K.** (2020) Crystal structure of psychrophilic isocitrate dehydrogenase reveals the strategy of cold adaptation. In: Gaur L, Solanki A., Wamba S.F.

and Jhanjhi N.Z. (ed) *Advanced Artificial Intelligence Techniques and its Applications in Bioinformatics*. Taylor and Francis (CRC Press) Accepted.

8. Mitra, D., Chaudhary, P., Mahakur, B., Barik, D.P., Khoshru, B., and **Das Mohapatra, P.K. (2020)**. Interaction of rhizome-bacteria & fungi in plant, In. Mitra, Mahakur, Khoshru, and Mahapatra Eds. *Microorganisms, Biofertilizers and Sustainable Agriculture. Part A*, Scholar's Press, Baznīcasiela 13-17, Rīgā, LV-1010 Latvia, European Union. pp. 17-39.
9. Mahakur, B., Barik, D.P., Mitra, D. and **Das Mohapatra, P.K. (2020)**. Bio-control Activity of rhizo-microbes for plant growth promotion and protection In. Mitra, MahakurKhoshru, and Mahapatra Eds. *Microorganisms, Biofertilizers and Sustainable Agriculture. Part A*, Scholar's Press, Baznīcasiela 13-17, Rīgā, LV-1010 Latvia, European Union. pp. 40-51.
10. Chaudhary, P., Mitra, D., Janmeda, P. and **Das Mohapatra, P.K. (2020)**. Assessment of different carriers' materials for biofertilizers and their effect on plant growth, In. Mitra, Mahakur, Khoshru and Mahapatra Eds. *Microorganisms, Biofertilizers and Sustainable Agriculture. Part A*, Scholar's Press, Baznīcasiela 13-17, Rīgā, LV-1010 Latvia, European Union. pp. 27-50.
11. Nad S., Mandal A., **Das Mohapatra P.K.**, Ganguly A. (2021) Herbal drug: A natural bioactive formulation & its scope against viral diseases, In: Sinha D. (ed) *Hand Book of Agriculture & Plant Sciences*, ABS, Delhi, ISBN: 978-93-91002-25-1.
12. Mitra, D., Chaudhary, P., Verma, D., Khoshru, B., Senapati, A., Mahakur, B., Panneerselvam, P., **DasMohapatra, P.K.** and Andelković, S., (2021). Bioinformatics' role in studying microbe-mediated biotic and abiotic stress tolerance. In *Microbial Management of Plant Stresses* (pp. 203-219). **Elsevier -Woodhead Publishing**. pp. 203-219.
13. Moradi, S., Khoshru, B., Mitra, D., Mahakur, B., **Das Mohapatra, P.K.**, AsgariLajayer, B. and Ghorbanpour, M., (2021). Transcriptomics analyses and the relationship between plant and plant growth-promoting rhizobacteria (PGPR). In *Omics Science for Rhizosphere Biology* (pp. 89-111). **Springer, Singapore**. pp. 89-111.
14. Mitra D., Nachmin B., Ganguly A. and **Das Mohapatra P.K. (2021)** Computational approach to assess Mucormycosis: A systematic review. In *Computational Intelligence in Healthcare Applications*. Elsevier. ISBN-9780323990318.
15. Mitra D., Chatrajs S. and **Das Mohapatra P.K. (2021)** Race of drugs to prevent COVID-19. In *Advanced Review and Research in Pharmaceutical Science (Volume - 2)*, Akinik Publications. (Accepted)
16. Mitra D. and **Das Mohapatra P.K. (2021)** Effect of natural compounds to inhibit human respiratory syncytial virus. In *Environmental Science technology and Management*. 2021. (Accepted)

17. Mitra D., Biswas I and **Das Mohapatra P.K. (2022)** *In-silico* comparative sequence and structure analysis of fungal tannase for industrial suitability: An environment friendly enzyme technology, 44th Annual Conference of Orissa Botanical Society; Astral publication. (Accepted).
18. Mitra D. and **Das Mohapatra P.K. (2022)**, Computational intelligence in identification of some FDA approved drug compounds for treatment of COVID-19. In COVID-19 book. Springer. (Accepted).
19. Mitra D., Chatraj S. and **Das Mohapatra PK, (2022)** Race of drugs to prevent COVID-19. In Advanced Review and Research in Pharmaceutical Science (Volume - 2), Akinik Publications. (Accepted).
20. Mitra D., Biswas I and **Das Mohapatra PK (2022)**, Severity of SARS-CoV-2 and its impact on human health, with special reference to gut metabiome. Elsevier.(Accepted)
21. Mitra, D., Pellegrini, M., Olatunbosun, A.N., Mondal, R., Del Gallo, M., Chattaraj, S., Chakroborty, D., Priyadarshini, A., Khoshru, B., Guerra Sierra B. E., Santos-Villalobos, S.D.L., Senapati, A., Djebaili, R., **DasMohapatra, P.K.** and Panneerselvam P. (2022). Seed priming with microbial inoculants for enhanced crop yield. In. Microbial inoculants: Recent progress and applications. Ed. Vijay Kumar Sharma, Ajay Kumar, Michel Passarini, Shobhika Parmar, Vipin K Singh. Elsevier Academic Press, USA. pp. 203-219.

SEQUENCES SUBMITTED TO GENE BANK (NCBI)

1. Jana A.,....**Das Mohapatra P.K. (2010)** *Bacillus subtilis* PAB2 16s rRNA gene, partial sequence of 1432 bp, Acc. No. HM853662. <http://www.ncbi.nlm.nih.gov>
2. **Das Mohapatra P.K.** et al. (2011) *Bacillus weihenstephanensis* PKD5 16s rRNA gene, partial sequence of 437 bp, Acc. No. JN897383. <http://www.ncbi.nlm.nih.gov>
3. Bera S.,... **Das Mohapatra P.K. (2013)** *Fusarium oxysporum* SAP 1 18s rRNA gene, partial sequence of 585 bp, Acc. No. JX575185. <http://www.ncbi.nlm.nih.gov>
4. Sarker K. N., Dutta S., **Mohapatra P.K. (2013)** *Pseudomonas monteili* FPK4 16s rRNA gene, partial sequence of 514 bp, Acc. No. KC535503. <http://www.ncbi.nlm.nih.gov>
5. Adhya T. and Das Mohapatra P.K. (2014) *Bacillus anthracis* PTB 12 16s rRNA gene, partial sequence of 962 bp, Acc. No. KF836429. <http://www.ncbi.nlm.nih.gov>
6. Adhya T..... Das Mohapatra P.K. (2015) *Bacillus amyloliquefaciens* PTA7 16s rRNA gene, partial sequence of 1412 bp, Acc. No. KP203836. <http://www.ncbi.nlm.nih.gov>
7. Adhya T..... Das Mohapatra P.K. (2015) *Bacillus subtilis* PTA8 16s rRNA gene, partial sequence of 1406 bp, Acc. No. KP203837. <http://www.ncbi.nlm.nih.gov>
8. Soren J.P.....Das Mohapatra P.K. (2015) *Acinetobacter sp.* PJB1 16s rRNA gene, partial sequence of 1516 bp, Acc. No. KP203837. <http://www.ncbi.nlm.nih.gov>

Ph.D. GUIDANCE (AWARDED/SUBMITTED)

Sl. No	Name of the Students	Date of Registration	Name of the topics	Supervisors	Status
1.	Sudip Kumar Sen	03.01.11	Study of bacterial diversity of Taptaapani Hot Spring with special reference to industrial important antibiotic and enzyme biosynthesis and their role in Bioremediation.	Dr. P.K. Das Mohapatra Dr. B. Bandyopadhyay	Awarded on 02.09.15
2.	Arijit Jana	06.12.10	Production and application of bacterial tannase.	Dr. P.K. Das Mohapatra Dr. K.C. Mondal	Awarded on 28.10.16
3.	Dipak Kumar Sahoo	06.12.10	Study on keratinase from newly isolated soil bacterium.	Dr. P.K. Das Mohapatra Dr. H. N. Thatoi	Awarded on 31.10.17
4.	Prasenjit Barman	13.06.12	Microbial remediation of nitrogenous wastes from water for cultivating Black Tiger Shrimp	Dr. P.K. Das Mohapatra Dr. P. Bandyopadhyay	Awarded on 04.02.18
5.	Kanishendranath Sarker	13.06.12	Isolation and characterization of fluorescent Pseudomonads as plant growth promoting rhizobacteria	Dr. P.K. Das Mohapatra Dr. Subrata Dutta	Awarded on 18.12.18
6.	Amrita Banerjee	13.06.12	Relationship of multiple tannase sequences and structures through Bioinformatics	Dr. P.K. Das Mohapatra Dr. Arnab Sen	Awarded on 29.08.18
7	Shilpee Pal	11.02.14	Comparative and evolutionary genomics of selected <i>Actinobacteria</i> with special reference to pathogenicity.	Dr. P.K. Das Mohapatra Dr. A. Sen	Awarded on 28.06.19
8.	Arindam Ganguly	21.02.13	Assesment of growth and nutrient status of indigenous fresh water catfish (<i>Clarias batrachus</i> Linn.) in relation to the application of newly isolated probiotics.	Dr. P.K. Das Mohapatra Dr. Asish Mondal	Awarded on 13.02.2020
9	Syed Mahamud Hossein	03.04.13	Techniques for DNA sequences compression and encryption	Dr. P.K. Das Mohapatra Dr. Debasish Dey	Awarded on 16.10.2020
10	Prasenjit Paria	15.12.14	Genetic diversity and pathogenicity of <i>Vibrio parahaemolyticus</i> from fish and shellfish in India	Dr. P.K. Das Mohapatra Dr. B.K. Behera	Awarded on 03.11.2020
11	Krishanu Singha	11.02.14	Study of diversity and antibacterial potential of mushroom in Gurguripal ecoforest.	Dr. P. K. Das Mohapatra Prof. B. R. Pati	Awarded on 21.12.2020
12	Riddha Mukherjee	11.02.14	Studies on acidophilus amylase from newly isolated soil fungus and its potential application in starch saccharification.	Dr. P. K. Das Mohapatra Prof. B. R. Pati	Awarded on 05.02.2021
13	Jyoti Prakash Soren	15.12.14	Isolation, characterization and application of microbial L-glutaminase	Dr. P. K. Das Mohapatra Dr. K.C. Mondal	Awarded
14	Manish Paul	15.09.17	Lignocellulolytic microorganisms from Similipal Biosphere Reserve and their efficacy in Bioethanol production:Experimental and in-silico analysis.	Prof. H. N. Thatoi Dr. P. K. Das Mohapatra	Awarded on 20.07.2023
15	Debasis Mitra		Understanding Arbuscular Mycorrhizal Fungal Association with Aerobic Rice in relation to Strigolactone Hormone for Enhancement of Phosphorus Uptake	Dr. P. K. Das Mohapatra Dr. Periyasamy Panneerselvam	Awarded

16	Sourav Chattaraj		Formulation of Fish Feed with Brewery Waste, Fresh Water Algae and Probiotic Bacteria, and its Effectiveness on the Cultivation of <i>Cirrhinus reba</i>	Dr. P. K. Das Mohapatra	Awarded on 31.01.2024
17	Debanjan Mitra		Bioinformatics insight on evolutionary and proteomics study of Human Respiratory Syncytial Virus	Dr. P. K. Das Mohapatra	Awarded
18	Ishita Biswas		Biotransformation and Evaluation of Therapeutic Potential of Tannin Rich Plant Extracts	Dr. P. K. Das Mohapatra	Awarded on 29.02.2024

Ph.D. GUIDANCE (ONGOING)

Sl. No	Name of the Students	Date of Registration	Name of the topics	Supervisors	Status
1.	Rabiul Alam	13.12.19	Exploration of microbial and nutritional profile of traditional fermented foods and beverages of North and South Dinajpur.	Dr. P. K. Das Mohapatra	Thesis Submitted
2.	Anwesha Sarkar	13.12.19	Study of microbial impact in survivability of <i>Clarias batrachus</i> fry.	Dr. P. K. Das Mohapatra	Ongoing
3	Soumyadeb Bhattacharyya	05.06.22	Development of Biosensing techniques towards monitoring water safety status.	Dr. P. K. Das Mohapatra Dr. Souvik Pal	Ongoing
4	Shaoni Ghosh	15.12.25	A study of the effect of Bacteriocin isolated from genital LAB on <i>Listeria monocytogenes</i> .	Dr. P. K. Das Mohapatra	Ongoing
5	Apsara Sarkar	15.12.25	Study of oral microbial flora of the people of Dakshin and Uttar Dinajpur and preparation of tannin based herbal toothpaste and mouthwash.	Dr. P. K. Das Mohapatra Dr. Suvankar Ghorai	ongoing

PUBLICATION IN SEMINAR PROCEEDINGS = 6

1. **Pradeep K. Das Mohapatra**, Keshab C. Mondal & Bikas R. Pati. **2005**. Immobilization of enzyme, in the Souvenir of Vidyasagar University Research Scholars' Association.
2. **Pradeep K. Das Mohapatra**, Sanjoy Kar. **2006**. A promising medicinal plant, *Cassia alata* A natural gift to mankind, in the Souvenir of UGC sponsored Seminar of Midnapore College.
3. Mondal K.C., **Das Mohapatra P.K.**, Maity C. **2009**. New threat to obesity: Gut microbes, in the Souvenir of colony 2009 (pp 11), Deptt. of Microbiology, Vidyasagar University.
4. Jana A., Mondal K.C., **Das Mohapatra P.K.** **2013**. *Microbial enzymes: weapons to fruit juice processing* in the Souvenir and Abstract book of the Seminar "Advancement in Biological

Sciences" organized by BRSI-VU Unit and Dept. of Microbiology and Biotechnology at Panskura Banamali College. W.B. (pp: 26-27).

5. Banerjee A., **Das Mohapatra P.K. 2013.** *Bioinformatics : A gateway to deeper insights* in the Souvenir and Abstract book of the Seminar "Advancement in Biological Sciences" organized by BRSI-VU Unit and Dept. of Microbiology and Biotechnology at Panskura Banamali College. W.B. (pp: 29-30).
6. Barman P., **Das Mohapatra P.K. 2013.** *Application of probiotics in Shrimp culture* in the Souvenir and Abstract book of the Seminar "Advancement in Biological Sciences" organized by BRSI-VU Unit and Dept. of Microbiology and Biotechnology at Panskura Banamali College. W.B. (pp: 31).

WORKSHOP ATTENDED = 8

1. Participated in the workshop on "Electron Microscopy For Beginners" on july 23th & 24th, 2002 at Jadavpur University, Kolkata.
2. Participated in the workshop on "Bioinformatics and its application" on September, 26 & 27, 2003 at IIT Kharagpur.
3. Participated in the workshop on "Biodeversity Conservation: Current Issues and Challenges in West Bengal" on June, 10 & 11, 2005 at Paribesh Bhavan, Salt Lake City, Kolkata.
4. Participated in the workshop on "Ornamental Fish Breeding, Rearing, Management and Stock Assessment of Aquatic Resources" during March 01-07, 2006 at Vidyasagar University, Midnapore.
5. Participated in the workshop on "Sharing of e-Resources, Digital Data and their Security-Technology Aspects" during 24th and 25th January, 2008 at Vidyasagar University, Midnapore.
6. Participated in the two-day National Workshop on "Use of Free Software" during 9th and 10th September, 2010 at Vidyasagar University.
7. Participated in the two-day National Workshop on "Quality Assurance in Reaccredited Institution" during 27th and 28th Septembr, 2010 at Vidyasagar University, Midnapore.
8. Participated in the three days Indo-Italian workshop on "Food biotechnology: Industrial processing, safety and Health" during 21st to 23rd November, 2012 at Punjabi University, Patiala.

INVITED LECTURE DELIVERED = 28

1. Delivered an invited lecture on the topic "Immobilization and its Current Perspective" in the 10 years lecture series programme of the Department of Microbiology, Panskura Banamali College, Panskura, Purba Medinipur, W.B. on 20.12.2008.
2. Delivered an invited lecture on the topic "Green house effect and global warming" in the seminar on Benefits of plants jointly organized by Midnapore Flower Growers Association and Nirmal Hriday Ashram at Midnapore on 17.07.2010.
3. Delivered an invited lecture on the topic "Production, Purification and Characterization of Tannin-acyl-hydrolase of Bacterial Origin with Implication of Immobilization Technology" in the short term course on Fermentation and Enzyme Technology organized by Dept. of

Biotechnology, College of Engineering and Technology, BPUT, Bhubaneswar – 751003 on 03.02.2013.

4. Delivered an invited lecture on the topic "*Protein Sequence Analysis and Structure Prediction: A Bioinformatics Approach*" in the short term course on Fermentation and Enzyme Technology organized by Dept. of Biotechnology, College of Engineering and Technology, BPUT, Bhubaneswar – 751003 on 04.02.2013.
5. Delivered a special invited lecture on the topic "*Bacterial Technology in relation of genomics, proteomics and Bioinformatics*" in the Molecular Technology workshop organized by Dept. of Biotechnology, College of Engineering and Technology, BPUT, Bhubaneswar – 751003 on 21.09.2013.
6. Delivered an invited lecture on the topic "Biological activity of some novel phytochemicals and study of their pharmacological potentiality through molecular docking" in the short term training programme on Phytochemicals in Biotechnology and Textile Industry (STPBT-2014) jointly organized by Department of Biotechnology and Dept. of Textile Engineering, CET, Bhubaneswar on 23.01.2014.
7. Delivered an invited special lecture on the topic "Bioremediation: Contribution of Hot Spring Microorganisms" in the Department of Biotechnology, North Orissa University, Baripada on 25.07.2015.
8. Delivered an invited lecture on the topic "Techniques of chromosome and plasmid DNA isolation and applications" in the DBT sponsored workshop at the Department of botany, Raja Narandralal Khan Women's College, Midnapore on 02.03.2016.
9. Delivered an invited lecture on the topic "Microbial diversity an unseen natural resources: Opportunity and Challenges" in the National Seminar on "Biodiversity Assessment and Wildlife Management" at School of Wildlife and Remote Sensing, North Orissa University, Baripada, Orissa during 18th -19th March 2016.
10. Delivered an invited lecture on the topic "Biotechnological exploitation of whole cell and enzyme immobilization and evaluation of Insilico tannase proteomics" in the Skill & Entrepreneurship Development Programme (SEDP) during 16th - 30th January at Department of Biotechnology, CET, BPUT, Bhubaneswar, Odisha on 30th January, 2017.
11. Delivered an invited lecture on the topic "Valorization of chicken feather waste by bacterial keratinase: A biotechnological initiatives for sustainable utilization of waste keratin" in the National Seminar on "Biotechnology for sustainable utilization of Bioresources (BSUB-2017) at Dept. of Biotechnology, North Orissa University, Baripada, Odisha during 17th -19th February, 2017.
12. Delivered an invited lecture on the topic "Valorization of chicken feather waste by bacterial keratinase: A biotechnological initiatives for sustainable utilization of waste keratin" in the National Seminar on "Bio-resource Management and Restoration" at P.G. Dept. of Bioscience and Biotechnology, Fakir Mohan University, Nuapadhi, Balasore, Odisha during 27th and 28th of March, 2017.

13. Delivered an invited lecture on the topic "Biodiversity conservation and sustainable utilization of wild mushrooms for the improvement of tribal livelihood in Gurguripal eco-forest, Paschim Medinipur, West Bengal, India" in the National Seminar on "Biodiversity conservation and livelihood management in Similipal Biosphere Reserve, Odisha" at Centre for Similipal Studies, North Orissa University, Baripada, Odisha during 29th -30th March, 2017.
14. Delivered an invited lecture on the topic "Haria, a rice-based fermented beverage: Ethnic preparation, microbial potential and tribal livelihood" in the National Seminar on "Tribal Development in West Bengal" organized by Cultural Research Institute, Tribal Development Department, Government of West Bengal, Kolkata during 15th & 16th June, 2017.
15. Delivered an invited lecture on "Biosynthesis and biotechnological potential of tannase and tannase producing bacteria" in the National Seminar on "Perspectives of Human Health, Microbial Biotechnology & innovation" organized by Dept. of Human Physiology with community Health and Dept. of Microbioogy, Vidyasagar University, Midnapore during 27th -29th March, 2018.
16. Delivered an invited lecture on the topic "Advancement of microbial enzyme technology in Indian biotech industry with special reference to biosynthesis and biotechnological potential of tannase" in the refresher course on "Recent advances in food and bioprocess technology" on 11.01.2019, organized by Dept. of Food Technology and Biochemical Engineering, Jadavpur University during 2nd January to , 2019.
17. Delivered an invited lecture in the National Seminar on "Green technology for environment management" and 44th Annual Conference of Orissa Botanical Society organized by Dept. of Botany, North Orissa University during 22nd -23rd January, 2020.
18. Delivered an invited lecture on the topic "Significance of microbiological knowledge and awareness in 21st century with special references to COVID-19" in the International Webinar on "Tracjectory of COVID-19 pandemic: awareness, treatment and genomic insight for future development" during 14th -15th June 2020, organized by Dept. of Microbiology, Bankura Sammilani College, Bankura, W.B.
19. Delivered an invited lecture in the National Webinar on "Environment, Health and COVID-19 (EHC-2020)" on 18th June 2020, organized by Dept. of Chemistry and Geography, Sardar Vallabhbhai Patel Arts and Science College, Ainpur, Jalgaon, Maharashtra.
20. Delivered an invited lecture on the topic "Health benefits, antiviral and immunomodulatory effects of probiotics to combat COVID-19 pandemic and co-infection: A future prospective" in the International webinar on "Nutrition, Health and stress management in the context of COVID-19 pandemic" organized by Dept. of Microbiology, Dept. of Nutrition and IQAC, Bankura Sammilani College, Bankura, W.B. on 7th September, 2020.
21. Delivered an invited lecture on the topic "Health benefits, antiviral and immunomodulatory effects of probiotics to combat COVID-19 pandemic and co-infection: A future prospective" in the International webinar on "Sustainable environmental factors as

immune booster" organized by Dept. of Zoology, RIHS, Bhograi, Balasore, Odisha on 28th September, 2020

Delivered an invited lecture on the topic "Urbanization, population, pollution and COVID-19" in the one day National webinar on "Impact of Covid-19 on environment: A Geographical perspective" organized by Department of Geography of Smt. G.G. Khadse College, Muktainagar, Jalgaon, Maharashtra on 3rd July, 2020.

23. Delivered an invited lecture on the topic "Health benefits, antiviral and immunomodulatory effects of probiotics to combat COVID-19 pandemic and co-infection: A future perspective" in International Webinar on "Nutrition, Health and Stress Management in the Context of Covid-19 Pandemic" organized by Dept. of Microbiology and Dept. of Nutrition, In Collaboration with IQAC, Bankura Sammilani College, Bankura, West Bengal, India during 7th September , 2020.
24. Delivered an invited lecture on the topic "Health benefits, antiviral and immunomodulatory effects of probiotics to combat COVID-19 pandemic and co-infection" in the One-Day International Webinar on "Sustainable environmental factors as immune booster" organized by Dept. of Zoology, Rural Institute of Higher Studies (R.I.H.S.), Bhograi, Balasore, Odisha, India on 28th September , 2020.
25. Delivered an invited lecture on the topic "Viral architecture, transmission and challenges in society" in State level one day webinar on "Awareness for prevention of HIV/AIDS" organized by Government General Degree College, Chapra, Nadia, West Bengal on 27th April 2021.
26. Delivered an invited lecture on the topic "Intra protein interactions of SARS-CoV2 and SARS: A bioinformatics analysis for plausible explanation regarding stability, divergency and severity" in the International Conference on "Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREEECH 2021) organized by CSIR-Indian Institute of Petroleum, BRSI and CSIR-Indian Institute of Toxicology Research during 1-4 December 2021.
27. Delivered an invited lecture on the topic "Advancement of microbial enzyme technology in Indian Biotech industries with special reference to tannase and keratin waste valorization" in the Value added course on recent Biotechnology innovations 2025 organized by Dept. of Biotechnology, DDU Gorakhpur University, Uttar Pradesh on 10th June 2025.
28. Delivered an invited lecture on the topic "Microbes in aquatic environment with special reference to *Vibrio parahaemolyticus*: A biotechnological insight for circular economy" in the International conference on "Biotechnology for sustainable development & circular economy"organized by CIBR, Siksha "O" Anusandhan, Deemed to be University, Odisha during December 8-10, 2025.

M.Sc. STUDENTS GUIDED AND PROJECT COMPLETED =20

1. Ghosh K., Mondal S., Halder D. (2009) Study of sponge iron effluent on microbial diversity of agricultural soil with special reference to nitrogen fixing organisms. pp - 19, Dept. Microbiology, Vidyasagar University.
2. Chini A., Samanta S., Mitra D., Dutta N., Islam S. (2009) Study of tannase production in presence of natural tannin by *Aspergillus* sp. a faecal isolate. Pp - 25, Dept. Microbiology, Vidyasagar University.
3. Pandit G. (2009) Extraction, estimation and biodegradation of tannin, a natural pesticide compounds by *Aspergillus niger* through submerged fermentation. pp - 20, Environmental Science, Vidyasagar University.
4. Bisas A., Majhi U., Gharai K., Das U. And Ghosh S. (2009) Isolation, enumeration and partial characterization of bacteria from garden, agriculture and hospital waste soil. pp - 20, Environmental Science, Vidyasagar University.
5. Bera S., Pramanik S., Bhattacharya P., Das SK., and Roy S. (2010) Organic solid waste management through vermicomposting. pp - 25, Dept. Microbiology, Vidyasagar University.
6. Midya L. (2010) Tannase production by *Penicillium* sp. PAF6 through solid state fermentation using agro-industrial residues. pp - 33, OIST, Burdwan.
7. Roy D. (2011) Study of gut bacteria of some fresh water fishes with special reference to enzyme biosynthesis. pp - 33, Deptt. of Aquaculture management and Technology, Vidyasagar University.
8. Polley T., Das B., Kundu P., Ghosh P., Poyra N., Tarafdar B. (2011) Screening of antimicrobial potentialities of wild mushrooms- an in vitro study. pp-27, Dept. Microbiology, Vidyasagar University.
9. Nath A. K. (2011) The study of coliform bacteria contamination for drinking water in different zones of Kolkata and different types of water filtration systems with packaged drinking water. pp-28, Dept. of Env. Science, Vidyasagar University.
10. Hossain A., Chatterjee K., Roy S., Ghosh A., Saha K. (2012) Preparation of probiotic drink by the fermentation of *Syzygium cumini* L. fruits through *Lactobacillus acidophilus*. pp 19, Dept. Microbiology, Vidyasagar University.
11. Majumder M., Shit A., Bhakta A., Dey S., Jana A. (2012) Recycling of sugarcane bagasse through vermicomposting and study of microbial diversity of the compost. pp 27, Dept. Microbiology, Vidyasagar University.
12. Jana T., Kulavi S., Maity S., Mondal T.K. (2012). Study of antibacterial potentiality of mushroom. pp 24, Dept. Microbiology, Vidyasagar University.
13. Bhattacharya D. (2012). Effect of Environ-AC on cultivation of Black Tiger Shrimp *Penaeus monodon* Fabricius. pp-33, Dept. of Microbiology, Vidyasagar University.
14. Giri S. (2012). Tannase production by *Pantoea* sp. through solid state fermentation using natural tannin. pp-32, Dept. of Biotechnology, North Orissa University, Odisha.
15. Pratihar S., Neogi S.G., Hazra A., Jana P., Sinha T. (2013). Comparative study of cultivable bacterial population in GI tract of fresh water and marine water fish. pp-24, Dept. of Microbiology, Vidyasagar University.

16. Ghosh D., Dey P., Mondal R.P., Dutta R., Pal S. (2013). Study on bacterial flora and infection of the mouth of *Naja kaouthia* Smith, 1940. pp-28, Dept. of Microbiology, Vidyasagar University.
17. Maiti B. (2013). *In vitro* Antimicrobial activity of *Ocimum sanctum* L. against potent pathogenic bacteria. pp-16, Dept. of Env. Sc., Vidyasagar University.
18. Hansda S. (2013). Efficacy of probiotic bacteria for maintaining water quality in Black Tiger Shrimp pond. pp-23, Dept. of Env. Sc., Vidyasagar University.
19. Layek M. (2013). Comparative study of soil microbial status of the sponge iron industrial area and rice field. pp-22, Dept. of Env. Sc., Vidyasagar University.
20. Jana S. (2013). *In Silico* Evolutionary study of *Bacillus anthracis* protease. pp-21, Dept. of Env. Sc., Vidyasagar University.

SEMINARS ATTENDED =26 [NATIONAL = 18]

1. Participated in and presented a paper "Immobilization of tannase from *Aspergillus aculeatus* DBF9" in National Symposium on "Microbial Biotechnology: Concepts and Applications" on January 15, **2002** at Dept. of Botany, Calcutta University, Kolkata.
2. Participated in and presented a paper "Optimization of environmental condition for the production of gallic acid from tannic acid by *Aureobasidium pullulans* DBS66" in National Symposium on "Diversity of Microbial Resources and their Potential Applications" on March 4th to 6th **2002** at Dept. of Botany, North Bengal University, Siliguri.
3. Participated in and presented a paper "Production of Gallic acid by Immobilized tannase" in Xth West Bengal State Science & Technology Congress on 28th February to 2nd March, **2003** at Vidyasagar University, Midnapore.
4. Participated in and presented a paper "Production of tannase and gallic acid from tannin containing plant materials through submerged fermentation of *Bacillus licheniformis* KBR6" in National Conference on "Plant, Mirobes and Environment: Issues and Challenges" on March 20-21, **2004** at Dept. of Botany, Burdwan University.
5. Participated in and presented a paper "A Comparative study on the production of tannase from commercial tannic acid and crude tannin extracted from *Anacardium occidentale*" in National Seminar on "Recent Advances in Plant Sciences" on March 30-31, **2004** at Dept. of Botany, Vidyasagar University, Midnapore, W.B.
6. Participated in and presented a paper "Biodegradation of tannin by bacterial tannase" in XVIth Annual Conference of the Physiological Society of India on December 16th -18th, **2004** at Department of Physiology, Raja Narendra Lal Khan Women's College, Gope Palace, Midnapore, W.B.
7. Participated in and presented a paper "Plant metabolites in the therapy of bacterial diseases" in National Seminar on Bio-medical Laboratory Science on December 17th - 19th, **2005** at Vidyasagar Institute of Health, Rangamati, Midnapore, W.B.
8. Participated in and presented a paper "Efficacy of leaf extracts of some indigenous plants against pathogenic bacteria" in UGC sponsored National Seminar on Medicinal Plants: its present status, prospects and conservation during March 22nd -23rd , **2006** at Midnapore College, Midnapore, W.B.
9. Participated in and presented a paper "Production of tannase by *Bacillus licheniformis* KBR6 through submerged and solid state fermentation" in the National Seminar on Microbes in Pharmaceuticals, Food and Agriculture during 20 & 21 December, **2007** at Department of Microbiology, Vidyasagar University, Midnapore, W.B.

10. Participated in the National Medicinal Plants Board sponsored Two days National Seminar on Medicinal Plants during March 8th & 9th, 2007 at Midnapore College, Midnapore, W.B.
11. Participated in the UGC sponsored National Seminar on Biosensor during 24th & 25th March, 2007 at Raja N. L. Khan Womens' College, Gope Palace, Midnapore, W.B.
12. Participated in and presented a paper "Production of amylase from a newly isolated soil bacterium *Bacillus* sp. PBK10" in the National Seminar on Plant, Microbes and Forestry research for sustainable development during 28 & 29 March, 2008 at Department of Botany and Forestry, Vidyasagar University, Midnapore, W.B.
13. Participated in the National conference on free software - 2008 on 15th and 16th November 2008 at Cochin University of Science and Technology, Kochi, India.
14. Participated in and presented a paper "Continuous gallic acid production by immobilized *Bacillus licheniformis* KBR6 cells in a packed-bed bioreactor" in the National Conference on Urban Environment - Present Scenario and Future Strategies during 27-29 December 2008 at Department of Environmental Science, Bangalore University, Bangalore -560-056.
15. Participated in the National Seminar on "Reforms in Higher Education" on February 13, 2010 at Vidyasagar University, Midnapore, W.B.
16. Participated in the National Seminar on "Teaching Methodology in Higher Education" on February 18, 2010 at Kharagpur college, Paschim Medinipur, W.B.
17. Participated in the Seminar on "Basic and Applied Microbiology" on May 14, 2010 at University of Burdwan, W.B.
18. Participated in the National Seminar on "Plant Diversity: Aspects and Prospects" during 9th and 10th March, 2011 at Department of Botany & Forestry, Vidyasagar University, Midnapore - 721 102.
19. Participated in the Seminar on "Microbes for sustainable development" on 20th December 2014 at Dept. of Botany and Dept. of Nutrition, Nistarini College, Purulia, W.B.

[INTERNATIONAL = 9]

1. Participated in and presented a paper "Solid state fermentation for tannase production by *Bacillus licheniformis* KBR6" in the International Conference on New Horizons in Biotechnology [NHBT-2007] organized by The Biotech Research Society of India (BRSI) and National Institute for Interdisciplinary Science and Technology (CSIR) during 26 - 29th November, 2007 at Trivandrum, India.
2. Participated in and presented a paper "Tannase production by *Bacillus licheniformis* KBR6: Optimization of submerged culture conditions by Taguchi DOE methodology" in the 3rd International Congress on Bioprocesses in Food Industries [ICBF 2008] organized by Department of Microbiology and University college of Technology, Osmania University during 6 - 8th November 2008 at Hyderabad, India.
3. Participated in and presented a paper "Quantification of tannin content of some daily consumed vegetables and fruits of human and its biodegradation by *Bacillus* sp. PKA 13 isolated from human faeces" in the International conference on Effects of environmental toxicology on human health organized by NESA during 27-29 December 2009 at Jamia Hamdard University, New Delhi.

4. Participated in and presented a paper “Tannase production by newly isolated *Bacillus subtilis* PAB2” in the International conference on Genomic Sciences - Recent Trends (ICGS - 2010) and Ido-Italian workshop on Industrial and Pharmaceutical Biotechnology organized by BRSI and School of Biological Sciences during 12-14 November, **2010** at Madurai Kamraj University, Madurai - 625 021.
5. Participated in and presented a paper “Keratinase production and biodegradation of whole chicken feather keratin by newly isolated bacterium under submerged fermentation” in the International conference on New Horizons in Biotechnology [NHBT-2011] organized by The Biotech Research Society, India (BRSI) and National Institute for Interdisciplinary Science and Technology (CSIR) during 21-24th November, **2011** at Trivandrum, India.
6. Participated in and presented a paper “*In silico* characterization of keratinase protein sequences of bacterial origin” in the International conference on Industrial Biotechnology [ICIB - 2012] organized by Department of Biotechnology, Punjabi University and BRSI during 21 - 23rd November, **2012** at Patiala, Punjab, India.
7. Participated in and presented a paper entitled “Dengue virus type 4 evolution & genomics: A bioinformatics approach” in the International conference on “Advances in Biotechnology and Bioinformatics (ICABB 2013)” organized by the Dr. D.Y. Patil Vidyapeeth, Pimpri, Pune and BRSI during 25th -27th November **2013** at Pune, India.
8. Participated in and presented a paper entitled “Fortification of fruit juice based ethnic beverage using microbial enzyme” In the International Conference on “Ethnic fermented foods and beverages: Microbiology and Health Benefits” organized by Department of Microbiology, Sikkim University, Gangtok and Swedish South Asian Network of Fermented Foods (SASNET-FF) during 20-21 November **2015**.
9. Participated in and presented a paper entitled “Characterization and strain improvement of aerobic denitrifying EPS producing bacterium *Bacillus cereus* PB88 for shrimp water quality management in ex-situ model” In the International Conference on “Current Trends in Biotechnology (ICCB-2016)” organized by School of Bio-Sciences & Technology, VIT University, Vellore and BRSI during 8th - 10th December, **2016**.

CONFERENCES/SYMPOSIA ORGANIZED=8

1. Convener: “Research in Higher Education” at Vidyasagar University on 13th May 2005.
2. Treasurer: “Microbes in Pharmaceuticals, Food and Agriculture” at Deptt. of Microbiology, Vidyasagar University on December 20&21, 2006.
3. Member of Organising Committee: “Plants, Microbes and Forestry Research for Sustainable Development” at Deptt. of Botany & Forestry on March 28 & 29, 2008.
4. Convener: “Recent Advancement of Biological Sciences” at Panskura Banamali College on 6th March 2010.
5. Member of Organising Committee: “Use of Free and Open Source Software” at Vidyasagar University on September 9 & 10, 2010.
6. Member of Organising Committee: “Current Trends in Biological Sciences” at Pingla Thana Mahavidyalaya on 29th & 30th April, 2011.
7. Patron: “Rural Health & Nutrition: Recent Trend & Monitoring” at Bajkul Milani Mahavidyalaya on 20th & 21st January, 2012.

8. Vice-President: "Advancement in Biological Sciences" at Panskura Banamali College, W.B. on 23rd March 2013.
9. Convener: International Webinar on "COVID-19 Pandemic and Co-infections: Challenges, prospective treatment and societal impact" organized by Dept. of Microbiology, Raiganj University on 31.08.2020.

SERVING AS REVIEWER OF MANUSCRIPTS SUBMITTED TO JOURNALS INCLUDING

African J. of Microbiology Research - Academic Journal
Annals of Microbiology - Springer
Aquaculture Research - Wiley-Blackwell
Biotechnology and Bioprocess Engineering - Springer
Fish and Shellfish Immunology - Elsevier
Journal of Bioscience and Bioengineering - Elsevier
Preparatory Biochemistry and Biotechnology - Taylor & Francis

SERVING AS EDITORIAL TEAM MEMBERS

Journal of Cereals and Oilseeds
TANG (International Journal of genuine traditional medicine)
International Journal Bioprocess and Biotechnological Advancements (ISSN: 2380-0259)

MEMBERSHIP OF THE SOCIETY

Life member of *Asian Federation of Biotechnology*, France.
Life member of *National Environmental Science Academy*, New Delhi.
Life member of *Biotech Research Society, India*; Trivandrum.
Life member of *Association of Microbiologists of India*, New Delhi.
Life member of *Paschim Banga Vigyan Mancha*, West Bengal.
Life member of *Society for Applied Biotechnology*, India.
Life member of *The Indian Science Congress Association*, India (L27582).

(Dr. Pradeep Kumar Das Mohapatra)