

## **BIODATA OF DR. P. K. DAS MOHAPATRA**

Name :DR. PRADEEP KUMAR DAS MOHAPATRA  
Date of Birth :04.06.1978  
Present position :Associate Professor  
Educational Qualification :M. Sc., Ph.D., FSAB  
Date of Joining :06.02.2018

### **Address:**

**Department of Microbiology**  
**Raiganj University**  
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### **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.  
1998 Bachelors in Botany (Microbiology) from Utkal University, Bhubaneswar, Orissa.

### **PROFESIONAL EXPERIENCE**

**Assistant Professor:** From 01.08.2008 to 05.02.2018: Department of Microbiology, Vidyasagar University, Midnapore – 721 102, West Bengal.

### **AREA OF SPECIALIZATION**

Microbial Diversity  
Microbial Nutrition  
Microbial Enzyme Technology  
Bioremediation  
Probiotics  
Proteomics

## **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	UGC Govt. of India	5.67 Lakh	01.05.2009	Completed 30.04.2012
Assessment of efficiency and antimicrobial activity of Biostadt aqua products	Biostadt India Ltd.	5.36 Lakh	26.05.2011	Completed
Identification of anti-diabetogenic and anti-obesogenic efficacy of bioactive polysaccharides derived from edible mushrooms	DST, Govt. of India (Indo-Hungarian)	48.642 Lakh 37650000 HUF	2017	Communicated

## **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 8<sup>th</sup> to 31<sup>st</sup> 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 25<sup>th</sup> October to 18<sup>th</sup> 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.

## **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 26<sup>th</sup> February to 8<sup>th</sup> 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 08<sup>th</sup> to 12<sup>th</sup> December 2014 at NIT, Durgapur-713209, W.B.

## **FULL LENGTH RESEARCH PAPERS PUBLISHED = 109**

**Some of them are:**

1. Mohapatra S., Padhy S., Thatoi H.N., **Das Mohapatra P.K. (2018)**. Enhanced reducing sugar production by saccharification of lignocellulosic biomass, *Pennisetum* species through cellulase from a newly isolated *Aspergillus fumigatus*. *Bioresource Technology*, Accepted. ISSN: 0960-8524, **IF:5.651** (Netherland)
2. Mukherjee R., Paul T., Soren J.P., Halder S.K., Mondal K.C., Pati B.R., **Das Mohapatra P.K. (2017)**. Acidophilic  $\alpha$ -amylase production from *Aspergillus niger* RBP7 using potato peel as substrate: a waste to value added approach. *Waste and Biomass Valorization*, Accepted. ISSN: 1877-2641, **IF:1.337**.
3. Pal S., Sarkar I., Roy A, **Das Mohapatra P.K.**, Mondal K.C., Sen A. **(2017)**. Comparative evolutionary genomics of *Corynebacterium* with special reference to codon and amino acid usage diversities. *Genetica*. Accepted. ISSN:0016-6707, **IF:1.207** (Netherlands).
4. Dutta S.R., Gauri S.S., Ghosh T., Halder S.K., **Das Mohapatra P.K.**, Mondal K.C. Ghosh A.K. **(2017)**. Elucidation of structural and functional integration of a novel antimicrobial peptide from *Antheraea mylitta*. *Bioorganic & Medicinal Chemistry Letters*. 27:1686-1692. ISSN:0960-894X, **IF: 2.486** (UK).
5. Barman P., Bandyopadhyay P., Kati A., Mandal A.K., Mondal K.C., **Das Mohapatra P.K. (2017)**. Characterization and strain improvement of aerobic denitrifying EPS producing bacterium *Bacillus cereus* PB88 for shrimp water quality management. *Waste and Biomass Valorization*. Accepted. ISSN: 1877-2641, **IF:1.337**.
6. Barman P., Kati A., Mandal A.K., Bandyopadhyay P., **Das Mohapatra P.K. (2017)**. Biopotentiality of *Bacillus cereus* PB45 for nitrogenous waste detoxification in ex-situ model. *Aquaculture Internatioanl*. 25: 1167-1183. ISSN: 09676120, **IF: 0.96** (API: 25+5, 21) (Netherlands).
7. Jana K., Maity T., Mahapatra T.S., **Das Mohapatra P.K.**, Debnath S.C., Das S., Hossain M., Samanta B.C. **(2016)**. A square pyramidal copper(II) complex of a Schiff base ligand:

synthesis, crystal structure, antibacterial and DNA interaction studies. *Transition Metal Chemistry*. Accepted. ISSN: 0340-4285, **IF:1.465**. (API: 25+10, **10.5**) (Netherlands). (API: 25+5,

8. Sethi B.K., Jana A., Nanda P.K., **Das Mohapatra P.K.**, Sahoo S.L., Patra J.K. (2016). Production of  $\alpha$ -amylase by *Aspergillus terreus* NCFT4269.10 using pearl millet and its structural characterization. *Frontiers in Plant Science, Section Plant Biotechnology*. 7: Article 639. ISSN: 1664462x, **IF: 4.495**. (Switzerland).
9. Pal S., Roy A., Sen A., Mondal K.C., **Das Mohapatra P.K.** (2016). Exploring the diversities of codon and amino acid usage patterns in type strain *Corynebacterium urealyticum* DSM 7109: A bioinformatics perspective. *J. of Advanced Bioinformatics Applications and Research*. 7(1):20-31. ISSN:0976-2604, **IF: 1.65**.
10. Sen S.K., Jana A., **Das Mohapatra P.K.**, Bandyopadhyay P., Raut S. (2016). Thermostable amylase production from Hot Spring isolate *Exiguobacterium sp.*: A promising agent for natural detergents. *Sustainable Chemistry and Pharmacy*. 3: 59-68. ISSN: 2352-5541. (Germany).
11. Singha K., Pati B.R., Mondal K.C., **Das Mohapatra P.K.** (2016). Nutritional and antibacterial potential of some wild edible mushrooms from Gurguripal Ecoforest, West Bengal, India. *Indian Journal of Biotechnology*. Accepted. ISSN: 0972-5849, **IF:0.287**.
12. Jana A., Halder S.K., Ghosh K., Paul T., Vagvolgyi C., Mondal K.C., **Das Mohapatra P.K.** (2015). Tannase immobilization by chitin-alginate based adsorption-entrapment technique and its exploitation in fruit juice clarification. *Food and Bioprocess Technology*. 8: 2319-2329. ISSN:1935-5130, **IF:2.691**. (US).
13. Paul T., Mandal A., Mandal S.M., Ghosh K., Mandal A.K., Halder S.K., Das A., Maji S.K., Kati A., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2015). Enzymatic hydrolyzed feather peptide, a welcoming drug for multiple-antibiotic-resistant *Staphylococcus aureus*: Structural analysis and characterization. *Appl. Biochem. Biotechnol.* 175:3371-3386. **IF:1.735**. ISSN: 0273-2289 (US).
14. Jana A., Adak A., Halder S.K., Das A., Paul T., Mondal K.C., **Das Mohapatra P.K.** (2015). A new strategy for improvement of tamarind seed based chicken diet after microbial detannification and assessment of its safety aspects. *Acta Biologica Szegediensis*, 59(1):1-9. ISSN:1588-4082, **IF:0.58** (Hungary).
15. Ghosh K., Ray M., Adak A., Dey P., Halder S.K., Das A., Jana A., Parua S., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2015). Microbial, saccharifying and antioxidant properties of an Indian rice based fermented beverage. *Food Chemistry*. 168:196-202. ISSN:0308-8146, **IF:4.072**, (UK).

16. Ghosh K., Ray M., Adak A., Halder S.K., Das A., Jana A., Parua S., Vagvolgyi C., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2015). Role of probiotic *Lactobacillus fermentum* KKL1 in the preparation of a rice based fermented beverage. *Bioresource Technology*, 188: 161-168. ISSN: 0960-8524, **IF: 5.651**, (UK).
17. Hossein S.M., **Das Mohapatra P.K.**, De D. (2015). A compression algorithm for DNA sequences based on R<sup>2</sup>G techniques with security. *Trends in Bioinformatics*. 8(3):93-98. ISSN:1994-7941. **IF: 1.14** (Pakistan).
18. Paul T., Halder S.K., Das A., Ghosh K., Mandal A., Payra P., Barman P., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2015). Production of chitin and bioactive materials from Black tiger shrimp (*Penaeus monodon*) shell waste by the treatment of bacterial protease cocktail. *3 Biotech*. 5: 483-493. , **IF:1.361**, ISSN: 2190-5738.
19. Banerjee A., Sahoo D.K., Thatoi H.N., Pati B.R., Mondal K.C., Sen A., **Das Mohapatra P.K.** (2014). Structural characterization and active site prediction of bacterial keratinase through molecular docking. *J. of Bioinformatics*. 1(4):67-82. ISSN:2373-0188, (USA). (API:10, 7).
20. Paul T., Das A., Mandal A., Jana A., Halder S.K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Smart cleaning properties of a multi tolerance keratinolytic protease from an extremophilic *Bacillus tequilensis* hsTKB2: Prediction of enzyme modification site. *Waste Biomass Valor*. 5: 931-945. ISSN:1877-2641, **IF: 1.9**, (France).
21. Paul T., Jana A., Das A., Mandal A., Halder S.K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Smart cleaning-in-place process through crude keratinase: An eco-friendly cleaning techniques towards dairy industries. *J. of Cleaner Production*. 76:140-153. **IF: 5.715**. ISSN: 0959-6526 , (UK).
22. Halder S.K., Jana A., Das A., Paul T., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Appraisal of antioxidant, anti-hemolytic and DNA shielding potentialities of chitosaccharides produced innovatively from shrimp shell by sequential treatment with immobilized enzymes. *Food Chemistry*. 158:325-334. ISSN:0308-8146, **IF:4.072**, (UK).
23. Sen S.K., Dora T.K., **Das Mohapatra P.K.**, Raut S. (2014). Thermostable alpha-amylase enzyme production from Hot Spring isolates *Alcaligenes faecalis* SSB17 - Statistical optimization. *Biocatalysis and Agricultural Biotechnology*, 3(4):218-226. **IF:1.44**, ISSN: 1878-8181. (USA).
24. Banerjee A., Pal S., Paul T., Mondal K.C., Pati B.R., Sen A. **Das Mohapatra P.K.** (2014). Characterization of *Bacillus anthracis* proteases through protein-protein interaction: an in silico study of anthrax pathogenicity. *TANG Humanitas Traditional Medicine*. 4:e6,1-12. ISSN: 2233-8985. (Republic of Korea).

25. Pal S., Banerjee A., Das P.S., Pati B.R., Mondal K.C., Chakraborty B., Sen A. **Das Mohapatra P.K. (2014)**. Dengue virus type 4 evolution & genomics: a Bioinformatic approach. *Indian J. of Biotechnology*. 13:330-336. ISSN:0972-5849. **IF: 0.477**.
26. Rath B.P., Das S., **Das Mohapatra P.K.**, Thatoi H.N. (2014). Optimization of extracellular chromate reductase production by *Bacillus amyloliquefaciens* (CSB 9) isolated from chromite mine environment. *Biocatalysis and Agricultural Biotechnology*. 3: 35-41. **IF:1.44**, ISSN: 1878-8181. (USA).
27. Sen S.K., Raut S., Dora T.K., **Das Mohapatra P.K. (2014)**. Contribution of hot spring bacterial consortium in cadmium and lead bioremediation through Quadratic Programming model. *J. of Hazardous Materials*. 265:47-60. ISSN:0304-3894, **IF: 4.679** (Netherlands).
28. Paul T., Das A., Mandal A., Halder S. K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Valorization of chicken feather waste for concomitant production of keratinase, oligopeptides and essential amino acids under submerged fermentation by *Paenibacillus woosongensis* TKB2. *Waste Biomass Valor.*, 5: 575-584. ISSN:1877-2641, **IF: 1.9**, (France).
29. Halder S.K., Maity C., Jana A., Ghosh K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Chitinases biosynthesis by immobilized *Aeromonas hydrophila* SBK1 by prawn shells valorization and application of enzyme cocktail for fungal protoplast preparation. *Journal of Bioscience and Bioengineering*, 117(2):170-177. **IF: 1.992**, ISSN: 1389-1723. (Japan).
30. Paul T., Das A., Mandal A., Jana A., Maity C., Adak A., Halder S.K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Effective dehairing properties of keratinase from *Paenibacillus woosongensis* TKB2 obtained under solid state fermentation. *Waste Biomass Valor.*, 5:97-107. ISSN:1877-2641, **IF: 1.9**, (France).
31. Ghosh K., Maity C., Adak A., Halder S.K., Jana A., Das A., Parua S., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Ethnic preparation of a rice based fermented beverage Haria in the province of lateritic West Bengal, India. *Ethnobotany Research and Applications.*, 12:39-48, ISSN: 1547-3465, **IF: 2.333**. (US).
32. Paul T., Das A., Mandal A., Halder S. K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). Biochemical and structural characterization of a detergent stable alkaline serine keratinase from *Paenibacillus woosongensis* TKB2: A potential additive for laundry detergent. *Waste Biomass Valor.*, 5:563-574. ISSN:1877-2641, **IF: 1.9**, (France).
33. Paul T., Das A., Mandal A., Halder S.K., Jana A., Maity C., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2014). An efficient cloth cleaning properties of a crude keratinase combined with detergent: towards industrial viewpoint. *J. of Cleaner Production*. 66:672-684. ISSN:0959-6526, **IF: 5.715** (UK).

34. Hossein S.M., **Das Mohapatra P.K.**, De D. (2013). Comparison of compression algorithm for DNA sequences with information security using exact matching of repeat, reverse, complement and palindrome technique on DNA sequences and apply on others orientation also. *International J. of Information Technology and Management Information System*. 4(3):25-46. ISSN:0976-6405, **IF: 5.2372**.
35. Jana A., Maity C., Halder S.K., Mondal K.C., Pati B.R., **Das Mohapatra P.K.** (2013). Enhanced tannase production by *Bacillus subtilis* PAB2 with concomitant antioxidant production. *Biocatalysis and Agricultural Biotechnology*., 2:363-371. **IF:1.44**, ISSN: 1878-8181. (USA).
36. Das A., Jana A., Paul T., Halder S. K., Ghosh K., Maity C., **Das Mohapatra P. K.**, Pati B. R., Mondal K. C. (2013). Thermodynamics and kinetic properties of halostable endoglucanase from *Aspergillus fumigatus* ABK9. *Journal of Basic Microbiology*., 53: 1-10. ISSN:1521-4028, **IF: 1.822** (Germany).
37. Jana A., Maity C., Halder S.K., Das A., Pati B.R., Mondal K.C., **Das Mohapatra P.K.** (2013). Structural characterization of thermostable, solvent tolerant, cytosafe tannase from *Bacillus subtilis* PAB2. *Biochemical Engineering Journal*., 77:161-170, ISSN: 1369-703X, **IF: 2.89** (Netherlands).
38. Maity C., Adak A., Halder S.K., Jana A., Ghosh K., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2013). Analysis of alteration of gut microbial population under the exposure of graded hyperbaric pressures: Application of metagenomic approach. *Ind. J. of Experimental Biology*., 51:960-968. ISSN: 0975-1009, **IF: 1.295**.
39. Das A., Paul T., Jana A., Halder S.K., Ghosh K., Maity C., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2013). Bioconversion of rice straw to sugar using multienzyme complex of fungal origin and subsequent production of bioethanol by mixed fermentation of *Saccharomyces cerevisiae* MTCC 173 and *Zymomonas mobilis* MTCC 2428. *Industrial Crops and Products*., 46: 217-225. ISSN: 0926-6690, **IF: 3.208**. (Netherlands).
40. Halder S.K., Maity C., Jana A., Das A., Paul T., **Das Mohapatra P.K.**, Pati B.R. Mondal K.C. (2013). Proficient biodegradation of shrimp shell waste by *Aeromonas hydrophila* SBK1 for the concomitant production of antifungal chitinase and antioxidant chitosaccharides. *International Biodeterioration and Biodegradation*., 79:88-97. ISSN:0964-8305, **IF:2.333** (UK).
41. Jana M., Maity C., Samanta S., Pati B.R., Islam S.S., **Das Mohapatra P.K.**, Mondal K.C. (2013). Salt-independent thermophilic  $\alpha$ -amylase from *Bacillus megaterium* VUMB 109: an efficacy testing for preparation of maltooligosaccharides. *Industrial Crops and Products*., 41: 386-391. ISSN: 0926-6690, **IF: 3.208**. (Netherlands).

42. Das A., Paul T., Halder S.K., Jana A., Maity C., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2013). Production of cellulolytic enzymes by *Aspergillus fumigatus* ABK9 in wheat bran-rice straw mixed substrate and use of cocktail enzymes for deinking of waste office paper pulp. *Bioresource Technology.*, 128: 290-296. ISSN:0960-85224, **IF: 5.651** (Netherlands).
43. Datta P., Ghosh P., Ghosh K., Maity P., Samanta S.K., Ghosh S.K., **Das Mohapatra P.K.**, Chatterjee J., Dhara S. (2013). In vitro ALP and osteocalcin gene expression analysis and in vivo biocompatibility evaluation of N-methylene phosphonic chitosan nanofibers for bone regeneration. *Journal of Biomedical Nanotechnology.*, 9: 870-879. ISSN: 1550-7033, **IF: 7.578**.
44. Kar S., Sonagouri S., Das A., Jana A., Maity C., Mandal A., **Mohapatra P.K.**, Pati B.R., Mondal K.C. (2013). Process optimization of xylanase production using cheap solid substrate by *Trichoderma reesei* SAF3 and study on the alteration of behavioral properties of enzyme obtained from SSF and SmF. *Bioprocess and Biosystems Engineering.* 36:57-68. DOI 10.1007/s00449-012-0761-x. ISSN:1615-7591. **IF: 2.06**. (Germany).
45. Paul T., Halder S.K., Das A., Bera S., Maity C., Mandal A., Das P.S., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2012). Exploitation of chicken feather waste as a plant growth promoting agent using keratinase producing novel isolate *Paenibacillus woosongensis* TKB2. *Biocatalysis and Agricultural Biotechnology.*, 2: 50-57. ISSN: 1878-8181. (USA). **IF:1.44**
46. Banerjee A., Jana A., Pati B.R., Mondal K.C., and **Das Mohapatra P.K.** (2012). Characterization of Tannase Protein Sequences of Bacteria and Fungi - an *In Silico* Study. *The Protein Journal.*, 31(4):306-327. DOI:10.1007/s10930-012-9405-x, ISSN:1572-3887, **IF: 1.101**. (API:25+10, **24.5**).
47. Jana A., Maity C., Halder S.K., Mondal K.C., Pati B.R., **Das Mohapatra P.K.** (2012). Tannase production by *Penicillium purpurogenum* PAF 6 in solid state fermentation of tannin rich plant residues following OVAT and RSM. *Applied Biochemistry and Biotechnology.* 167:1254-1269. ISSN: 0273-2289, **IF: 1.879**. (US).
48. Maity C., Ghosh K., Halder S.K., Jana A., Adak A., **Das Mohapatra P.K.**, Pati B.R., Mondal K.C. (2012). Xylanase isozymes from the newly isolated *Bacillus* sp. CKBx1D and optimization of its deinking potentiality. *Applied Biochemistry and Biotechnology.* 167:1208-1219. ISSN: 0273-2289, **IF: 1.879**. (US).
49. Pati F., Datta, P. Adhikari B., Dhara S., Ghosh K., **Das Mohapatra P.K.** (2012). Collagen scaffold derived from fresh water fish origin and their biocompatibility. *Biomedical Materials Research: Part A.*, 100A: 1068-1079. ISSN: 1552-4965, **IF-3.044**. (US).



50. Sahoo D.K., Das A., Thatoi H.N., Mondal K.C. **Das Mohapatra P.K. (2012)**. Keratinase production and biodegradation of whole chicken feather keratin by newly isolated bacterium under submerged fermentation. *Applied Biochemistry and Biotechnology*. 167:1040-1451. ISSN: 0273-2289, **IF: 1.879**. (US).
51. Mondal A., Kar S., **Das Mohapatra P.K.**, Maity C., Pati B.R., Mondal K.C. **(2012)**. Regulation of xylanase biosynthesis in *Bacillus cereus* BSA1. *Applied Biochemistry and Biotechnology*. 167:1052-1060. ISSN: 0273-2289, **IF: 1.879**. (US).
52. Maity C., Samanta S., Halder S.K., **Das Mohapatra P.K.**, Pati B.R., Jana M. and Mondal K.C. **(2011)**. Isozymes of  $\alpha$ -amylases from newly isolated *Bacillus thuringiensis* CKB 19: Production from immobilized cells. *Biotechnology and Bioprocess Engineering*, 16: 312-319. **IF: 1.113**. (South Korea). ISSN:1226-8372.
53. Mandal A., Kar S., **Das Mohapatra P. K.**, Maity C., Pati B.R. and Modal K. C. **(2011)**. Purification and Characterization of an Endoxylanase from the Culture Broth of *Bacillus Cereus* BSA1. *Appl. Biochem. Microbiol.*, 47: 250-255. ISSN: 0003-6838, **IF: 0.704**. (Russian Federation).
54. Patil D.B., Das S.K., **Das Mohapatra P.K.** and Nag A. **(2011)**. Physico-chemical studies and optimization of gallic acid production from the seed coat of *Terminalia bellerica* roxb. *Ann. Microbiol.*, 61(3): 649-654. DOI-10.1007/s13213-010-0185-2. ISSN: 1590-4261, **IF: 1.53**. (Germany).
55. **Das Mohapatra P.K.**, Maity C., Rao R.S., Mondal K.C. and Pati B.R. **(2009)**. Tannase production by *Bacillus licheniformis* KBR6: Optimization of submerged culture conditions by Taguchi DOE methodology. *Food Res. Inter.*, 42: 430 - 435. doi:10.1016/j.foodres.2009.02.013. ISSN: 0963-9969, **IF: 2.899**. (Netherlands).
56. **Das Mohapatra P.K.**, Mondal K.C. and Pati B.R. **(2009)**. Effect of amino acids on tannase biosynthesis by *Bacillus licheniformis* KBR6. *J. Microbiol. Immunol. Infec.*, 42: 172 - 175. ISSN: 1684-1182, **IF:1.411**. (China).
57. Maity C., **Das Mohapatra P. K.**, Pati B.R. and Modal K. C. **(2009)**. A simple gel detection method of microbial tannin acyl hydrolase (EC. 3.1.1.20). *World j. Microbiol. Biotechnol.*, 25: 733-735. ISSN: 0959-3993 **IF: 1.214**. (Netherlands).
58. Samanta S., Kar S., Jana M., Maity C., **Das Mohapatra P. K.**, Pati B.R. and Modal K. C. **(2009)**. Study of the potentialities of immobilized bacterial  $\alpha$ -amylase on coconut coir, a smart carrier for biocatalysts. *Biocat. Biotrans.*, 27 (2): 131-135. ISSN: 1024-2422, **IF: 1.433**. (UK).

59. 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: 467 - 478. ISSN: 0920-1742, **IF: 1.607**. (Netherlands).
60. Kar S., Mandal A., **Das Mohapatra P. K.**, Samanta S., Pati B.R. and Modal K. C. (2008). Production of xylanase by immobilized *Trichoderma reesei* SAF3 in Ca-alginate beads. *J. Ind. Microbiol. Biotechnol.*, 35: 245-249. ISSN: 1367-5435, **IF: 2.416**. (Germany).
61. **Das Mohapatra P.K.**, Mondal K.C. and Pati B.R.(2007). Production of tannase by the immobilization of *Bacillus licheniformis* KBR6 in Ca-alginate beads. *J. Appl. Microbiol.*, 102: 1462-1467. ISSN: 1365-2672, **IF: 2.365**. (UK).
62. **Das Mohapatra P.K.**, Mondal K.C. and Pati B.R.(2006). Production of tannase through submerged fermentation of tannin- containing plant extracts by *Bacillus licheniformis* KBR6. *Pol. J. Microbiol.*, 55: 297-301. ISSN: 17331331, **IF: 0.839**. (Poland).

#### REVIEW PAPER - 04

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:0960-85224, **IF: 4.98** (Netherlands).
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.
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: 1.545**. (Netherlands).
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).

#### POPULAR ARTICLE -01

1. 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.

## **BOOK CHAPTERS - 5**

1. **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.
2. **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.
3. 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.
4. 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 Advances in Agriculture and Human Health*. Apple Academic Press, Inc., (a Taylor & Francis Group), Canada. Accepted.
5. 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.

## **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 monteilii* 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	Name of the University	Supervisors	Status
1.	Sudip Kumar Sen	Dept. of Biotechnology Vidyasagar University	Dr. P.K. Das Mohapatra Dr. B. Bandyopadhyay	Awarded on 02.09.15
2.	Arijit Jana	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Dr. K.C. Mondal	Awarded on 28.10.16
3.	Dipak Kumar Sahoo	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Professor H. N. Thatoi	Awarded on 31.10.17
4.	Prasenjit Barman	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Dr. P. Bandyopadhyay	Thesis Submitted
5.	Kanishendranath Sarker	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Dr. Subrata Dutta	Thesis Submitted
6.	Amrita Banerjee	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Professor Arnab Sen	Thesis Submitted

#### **Ph.D. GUIDANCE (ONGOING)**

Sl. No	Name of the Students	Name of the University	Supervisors	Status
1.	Arindam Ganguly	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Dr. Asish Mondal	Ongoing
2.	Shilpee Pal	Dept. of Microbiology Vidyasagar University	Dr. P.K. Das Mohapatra Dr. A. Sen	Ongoing
3.	Krishanu Singha	Dept. of Microbiology Vidyasagar University	Dr. P. K. Das Mohapatra Prof. B. R. Pati	Ongoing
4.	Riddha Mukherjee	Dept. of Microbiology Vidyasagar University	Prof. B. R. Pati Dr. P. K. Das Mohapatra	Ongoing

#### **WORKSHOP ATTENDED = 8**

1. Participated in the workshop on “**Electron Microscopy For Beginners**” on July 23<sup>th</sup> & 24<sup>th</sup>, 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 24<sup>th</sup> and 25<sup>th</sup> January, 2008 at Vidyasagar University, Midnapore.
6. Participated in the two-day National Workshop on “**Use of Free Software**” during 9<sup>th</sup> and 10<sup>th</sup> September, 2010 at Vidyasagar University.

7. Participated in the two-day National Workshop on "**Quality Assurance in Reaccredited Institution**" during 27<sup>th</sup> and 28<sup>th</sup> Septembr, 2010 at Vidyasagar University, Midnapore.
8. Participated in the three days Indo-Italian workshop on "**Food biotechnology: Industrial processing, safety and Health**" during 21<sup>st</sup> to 23<sup>rd</sup> November, 2012 at Punjabi University, Patiala.

#### **INVITED LECTURE DELIVERED = 14**

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 18<sup>th</sup> -19<sup>th</sup> 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 16<sup>th</sup> - 30<sup>th</sup> January at Department of Biotechnology, CET, BPUT, Bhubaneswar, Odisha on 30<sup>th</sup> 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 17<sup>th</sup> -19<sup>th</sup> 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 27<sup>th</sup> and 28<sup>th</sup> 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 29<sup>th</sup> -30<sup>th</sup> 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 15<sup>th</sup> & 16<sup>th</sup> June, 2017.

**SEMINARS ATTENDED =26 [ NATIONAL = 18] [ INTERNATIONAL = 8]**

1. Participated in and presented a paper “Solid state fermentation for tannase production by *Bacillus licheniformis* KBR6” in the International Conferecnce 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 - 29<sup>th</sup> 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 3<sup>rd</sup> International Congress on Bioprocesses in Food Industries [ICBF 2008] organized by Department of Microbiology and University college of Technology, Osmania University during 6 - 8<sup>th</sup> 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 NESI 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 Indo-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 21-24<sup>th</sup> 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 - 23<sup>rd</sup> 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 25<sup>th</sup> -27<sup>th</sup> 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 8<sup>th</sup> - 10<sup>th</sup> December, **2016**.

#### **SERVING AS REVIEWER OF MANUSCRIPTS SUBMITTED TO JOURNALS INCLUDING**

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)

## **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 *Society for Applied Biotechnology*, India.

Life member of *The Indian Science Congress Association*, India (L27582).

(Pradeep Kumar Das Mohapatra)