

Dr. Arpan Das

Designation: Assistant Professor



About Me:

Did Masters from the Department of Microbiology, Vidyasagar University in 2008 and thereafter completed Ph.D. from the same Department on the topic "Production of thermostable fungal cellulases" in 2015. Currently working as an assistant professor in Microbiology at Maulana Azad College, Kolkata.

Qualifications: M.Sc., PHD

Ph.D in Microbiology in 2015

West Bengal State Level Eligibility Test (SET) in 2014

National Eligibility Test (CSIR-NET) in 2012

Graduate Aptitude Test in Engineering (GATE) in 2009

RFSMS Research Fellowship, UGC, Govt. of India (2009-2014)

Current Teaching:

Assistant Professor in Microbiology at Maulana Azad College under University of Calcutta (2016-Present)

Research Interests:

Application of microbial enzymes in different biotechnological area.

Selected Publications:

○ *Book Chapters*

Das A, Ghosh P. Solid State Fermentation – A Stimulating Process for Valorization of Lignocellulosic Feedstocks to Biofuel. In: Kuila A, Sharma V (eds.) Principles and Applications of Fermentation Technology, Scrivener Publishing LLC, Wiley, 2018:239–262.

Ghosh P, Das A. Application of Fermentation Strategies for Improved Laccase Production. In: Kuila A, Sharma V (eds.) Principles and Applications of Fermentation Technology, Scrivener Publishing LLC, Wiley, 2018:117–140.

Das A. Valorization of Lignocellulosic Material to Polyhydroxyalkanoates (PHAs). In: Kuila A, Sharma V (eds.) Lignocellulosic Biomass Production and Industrial Applications, Scrivener Publishing LLC, Wiley, 2017: 1–26.

○ *Papers*

Das A, Ghosh U. (2009). Solid state fermentation of waste cabbage by *Penicillium notatum* NCIM NO-923 for production and characterization of cellulases. *Journal of Scientific and Industrial Research*. 68:714-718.

Das A, Ghosh U, Das Mohapatra PK, Pati BR, Mondal KC. (2012). Study on Thermodynamics and Adsorption kinetics of Purified endoglucanase (CMCase) from *Penicillium notatum* NCIM NO 923 produced under mixed solid-state fermentation of waste cabbage and Bagasse. *Brazilian Journal of Microbiology*. 43:1103-1111.

Das A, Paul T, Halder SK, Maity C, Das Mohapatra PK, Pati BR, Mondal KC. (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.

Das A, Paul T, Halder SK, Maity C, Das Mohapatra PK, Pati BR, Mondal KC. (2013). Study on regulation of growth and biosynthesis of cellulolytic enzymes from newly isolated *Aspergillus fumigatus* ABK9. *Polish Journal of Microbiology*. 62(1): 31–43.

Das A, Paul T, Halder SK, Jana A, Ghosh K, Maity C, Das Mohapatra PK, Pati BR, Mondal KC. (2013). Bioconversion of rice straw to sugar using multi enzyme complex from fungal isolates 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.

Das A, Jana A, Paul T, Halder SK, Ghosh K, Maity C, Das Mohapatra PK, Pati BR, Mondal KC. (2013). Thermodynamics and kinetic properties of halostable endoglucanase from *Aspergillus fumigatus* ABK9. *Journal of Basic Microbiology*. 53: 1-10.

Das A, Paul T, Halder SK, Jana A, Ghosh K, Maity C, Das Mohapatra PK, Pati BR, Mondal KC. (2013). Low cost single-step purification of endoglucanase from *Aspergillus fumigatus* ABK-9. *Indian Journal of Experimental Biology*. 51: 954-959.

Das A, Paul T, Ghosh P, Halder SK, Das Mohapatra PK, Pati BR, Mondal KC. (2015) Kinetic Study of a Glucose Tolerant β -Glucosidase 3 from *Aspergillus fumigatus* ABK9 Entrapped into Alginate Beads. *Waste Biomass Valorization*. 6: 53–61.

Das A, Ghosh P, Ghosh U, Pati BR, Mondal KC. (2016) Production of Bioethanol as useful Biofuel through the bioconversion of Water hyacinth (*Eichhornia crassipes*). *3 Biotech*. 6:70.

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Professional Memberships and Activities:

Life member of Biotech Research Society of India (BRSI) (LM-824)

Life member of Association of Microbiologist of India (AMI-3085-2013)