



Dr. ASISH MANDAL

M.Sc, Ph.D.

Designation: Associate Professor

Department: Botany

Ramananda College, Bishnupur

Bankura, West Bengal, India

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AREAS OF INTEREST/SPECIALISATION

- Microbiology
- Microbial enzyme
- Fish Probiotic

ACADEMIC ACHIEVEMENTS

- M. Sc.
- Ph. D.
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RESEARCH EXPERIENCE

From	To	Name and Address of Company / Organization	Position held
2002	Till date	Ramananda College, Bishnupur Bankura	2002 -2011: Research Scholar
		Vidyasagar University, Midnapore, Paschim Medinipore, West Bengal	2013-2020: Research Guide
		Raiganj University, Uttar Dinajpur, West Bengal	

ACADEMIC EXPERIENCE

1. PG Teaching:
From 2008 to till date as a full time faculty in the Department of Botany, Rmananda College, Bishnupur.
Acted as Head of the Department (from 01.07.2010 to 30.06.2012 and 01.07.2018 – 30.06.2020) Botany, Rmananda College, Bishnupur.
2. UG Teaching:
 - i. **From 2001 till date as a full time teacher for both Hons and General Courses in the Department of Botany, Rmananda College, Bishnupur.**
 - ii. **Four years in Midnapore College, Midnapore, as a part time lecturer, for both Honours and General Courses (1996-2001).**
 - iii. **One years in Khargpur College, Khargpur, Paschim Medinipur, as a part time lecturer, for General Courses (1997).**
(Total Teaching Experience in College as Permanent Full Time Faculty: **About 19 years, from 25.05.2001 to till date.**)
3. School Teaching:
Two and half year (from 1998-2001) as an Assistant Teacher in Pasang High School, Pasang, Paschim Medinipur.

ADMINISTRATIVE EXPERIENCE

1. Member, Routine Committee,
2. Member of IQAC
3. Acted as member of Leave Committee, Seminar Committee upto 2019
4. Acted as the Bursar from July 2017 to November 2019

PUBLICATIONS

(List of Journals/Proceedings/Chapter in Books)

Year 2020

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Year 2019

1. **Ganguly A., Banerjee A., Mandal. A. and Das Mohapatra P. K. (2019) Study of bile Salt Hydrolase in *Lysinobacillus sphaerecus*: a Potent Fish Probiotic and its in Silico structure Prediction for Catalytic Interaction. Iromanian Archives of Microbiology and Immunology, 78(2): 81-90**
2. **Kar S., Mandal A., Samanta S., pati B.R., Mondal K.C. (2019) Studies on Regulation of xylanase Biosynthesis by *Trichoderma reesei* SAF3. Indian Science Crusier DOI: 10.24906/isc/2019/v33/i3/185424**

Year 2018

1. Ganguly A., Banerjee A., Mandal. A. and Das Mohapatra P. K. (2018) Optimization of Effective Dose of a Newly Isolated Probiotic Bacteria for Growth and Disease Resistance of *Clarias batrachus* (Linn). *Research Journal of life Sciences, Bioinformatics, pharmaceuticals and chemical Sciences*. DOI: 10.26479/2018.0404.30
2. Ganguly A., Banerjee A., Mandal. A. and Das Mohapatra P. K. (2018) Probiotic-based Cultivation of *Clarius batrachus*: Importance and future Perspective. *Acta Biologica Szegediensis*, 62(2):158-168.
3. Ganguly A., Banerjee A., Mandal. A., Dutta T and Das Mohapatra P. K. (2018) Study of Indigenous Freshwater Fish Diversity of Bankura (West Bengal), India with special reference to *Clarias batrachus*. *Journal of applied and Natural Science* 10(4): 1162 – 1172
4. Ganguly A., Banerjee A., Mandal. A., Khan M.A. and Das Mohapatra P. K. (2018) Isolation and Characterization of Bacteria from the Intestine of *Clarias batrachus* for Probiotic Organism (2018) *Proceeding of Zoological Society* <https://doi.org/10.1007/s12595-018-0283-x>

Year 2017

1. Ganguly A., Mandal A., Khan M. A., Dutta T. K., Raha S. and Das Mohapatra P. K. (2017) Study of Physico-chemical Parameters, Planktonic Diversity and Bacterial Load of *Clarias batrachus* Cultivation Pond at Bankura, WB, India. *International Research Journal of Biological Sciences*, Vol. 6(12), 23-34.

Year 2015

1. Mandal, A. (2015) Study of distribution of xylanase producing microbes in soil: a case study in Midnapore Town, Paschim Medinipur, West Bengal, India. *Asian Journal of Science and Technology*, 06(08):1712-1718.
2. Mandal, A. (2015) Effect of nitrogen sources, phosphate sources and metal ions on the production of xylanase by *Bacillus cereus* BSA1. *International Journal of Current Research*, 07(08):19391-19394.
3. Mandal A. (2015) Review on Microbial Xylanases and their Applications. *International Journal of Life Sciences*, 4 (3):178-187.
4. Mandal A. (2015) Characterization of Xylanase Protein Sequences of *Bacillus cereus*: An In-Silico Study. *Journal of pure and applied microbiology*, 9 (Spl. Edn. 2): 321-326.
5. Mandal, A., Kar, S., Tapan, D., Pati B. R., Mondal K. C., and Das Mohapatra P. K. (2015) Parametric optimization of submerged fermentation conditions for xylanase production by *Bacillus cereus* BSA1 through Taguchi

Methodology. *Acta Biologica Szegediensis*, 59(2):189-195. <http://www2.sci.u-szeged.hu/ABS>

Year 2012

1. Mandal, A., Kar, S., Das Mohapatra, P.K., Maity, C., Pati, B.R. and Mondal, K.C. Regulation of Xylanase Biosynthesis in *Bacillus cereus* BSA1 (2012). Regulation of xylanase biosynthesis in *Bacillus cereus* BSA1. *Applied Biochemistry and Biotechnology*, 167(5):1052-1060.
2. Kar, S., Sona Gauri S., Das A., Jana A., Maity C., Mandal, A., Das Mohapatra, P.K., Samanta, S. Pati, B.R. and Mondal, K.C. (2012) 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 (2013) *Bioprocess and Biosystems Engineering* 36: 57-48 (DOI 10.1007/s00449-012-0761-x).

Year 2011

1. Mandal, A., Kar, S., Das Mohapatra, P.K., Maity, C., Mondal, K.C. and Pati, B.R. (2011). Purification and characterization of an endoxylanase from the culture broth of *Bacillus cereus* BSA1. *Applied Biochemistry and Microbiology*, 47(3):250–255.

Year 2008

1. Kar, S., Mandal, A., Das Mohapatra, P.K., Samanta, S., Pati, B.R. and Mondal, K.C. (2008). Production of xylanase by immobilized *Trichoderma reesei* SAF3 in Ca-alginate beads. *Journal of Industrial Microbiology and Biotechnology*, 35:245–249.
2. Mandal, A., Kar, S., Das Mohapatra, P.K., Maity, C., Mondal, K.C. and Pati, B.R. (2008). Xylanase production under submerged fermentation by newly isolated *Bacillus cereus* BSA1: parametric optimization of cultural conditions. *Journal of Pure and Applied Microbiology*, 2(1):155-160.

Year 2006

1. Kar, S., Mandal, A., Das Mohapatra, P.K., Mondal, K.C. and Pati, B.R. (2006). Production of cellulase-free xylanase by *Trichoderma reesei* SAF3. *Brazilian Journal of Microbiology*, 37: 462-464.

PERSONAL DETAILS IN BRIEF

Date of Birth : 21.12.1971

Marital Status : Married

Nationality : Indian

Current Designation : Associate Professor of Botany

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West Bengal, 721101

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