



ENLIGHTENMENT TO PERFECTION

# UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.



## Department of Microbiology

Print



### Dr. Arindam Bhattacharjee

M.Sc. (CU), Ph.D. (CU)

Assistant Professor



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**Subject specialization:** Microbiology

**Areas of Research Interest:** Environmental microbiology with emphasis on cold active enzymes, biodegradation of diesel and stress biology, Proteomics etc.

**No. of Ph.D. students:** (a) Supervised: 00 (b) Ongoing: 05 .

**No. of M.Phil. students:** (a) Supervised: Nil (b) Ongoing: Nil .

**No. of Publications:** 11

#### Achievement & Awards:

- CSIR-UGC NET JRF in the year 2004
- National scholarship for under graduate result in 2001

#### Professional experiences:

- **Teaching experience: 6 years**
  - Assistant professor in the Dept. of Microbiology, Darjeeling Govt. college (Apr 26th 2010- June 11th 2013)
  - Assistant Professor in Dept of Microbiology, University of North Bengal (June 12th- till date).
- **Research experience: 11 years**

#### Administrative Experiences:

- Head, Dept. of Microbiology, Darjeeling Govt. College (2010-2013)

#### Selective List of Publications:

1. **Arindam Bhattacharjee**, Uddalak Majumdar, Debasis Maity, Tuhin Subhra Sarkar, Achintya Mohan Goswami, Rupam Sahoo, and Sanjay Ghosh (2010) Characterizing the effect of nitrosative stress in *Saccharomyces cerevisiae*. Archives of Biochemistry and Biophysics (ABB) 496, 109-116.
2. Tuhin Subhra Sarkar, **Arindam Bhattacharjee**, Uddalak Majumdar, Anirban Roy, Debasis Maity, Achintya Mohan Goswami, Subrata Kumar Ghosh and Sanjay Ghosh (2011) Biochemical characterization of compatible plant-viral interaction: A case study with a Begomovirus-Kenaf host-pathosystem. Plant Signal Behav. Apr;6(4):501-9.
3. Tuhin Subhra Sarkar, Uddalak Majumdar, Anirban Roy, Debasis Maity, Achintya Mohan Goswami, **Arindam Bhattacharjee**, Subrata Kumar Ghosh and Sanjay Ghosh (2010) Production of Nitric Oxide in host-virus interaction: A case study with a compatible Begomovirus-Kenaf host-pathosystem. Plant Signaling and Behavior. Plant Signal Behav. Dec 2;5(6):668-76.
4. Tanmay Dutta, **Arindam Bhattacharjee**, Uddalak Majumdar, Saugata Sinha Ray, Rupam Sahoo and Sanjay Ghosh (2009) In Vitro Renaturation of Alkaline Family G/11 Xylanase via a Folding Intermediate:  $\alpha$ - Crystallin Facilitates Refolding in an ATP-Independent Manner. Appl Biochem Biotechnol. Nov;162(5):1238-48.
5. **Arindam Bhattacharjee**, Uddalak Majumdar, Debasis Maity, Tuhin Subhra Sarkar, Achintya Mohan Goswami, Rupam Sahoo, Sanjay Ghosh (2009) In vivo protein tyrosine nitration in *S. cerevisiae*: Identification of tyrosine-nitrated proteins in mitochondria. Biochem Biophys Res Commun. (BBRC) Oct 23;388(3):612-7.
6. Rupam Sahoo, **Arindam Bhattacharjee**, Uddalak Majumdar, Saugata Sinha Ray, Tanmay Dutta, and Sanjay Ghosh (2009) A novel role of catalase in detoxification of peroxynitrite in *S. cerevisiae* yhb1 and sfa1-mutants. Biochem Biophys Res Commun. (BBRC) Aug 7;385(4):507-11.
7. Tanmay Dutta, Rupam Sahoo, Rajib Sengupta, Saugata Sinha Ray, **Arindam Bhattacharjee** and Sanjay Ghosh (2008). Novel Cellulases From an Extremophilic Filamentous Fungi *Penicillium Citrinum*: Production and characterization. Journal of Industrial Microbiology and Biotechnology Apr;35(4):275-82.
8. Saugata Sinha Ray, Jesús Tejero, Zhi-Qiang Wang, Tanmay Dutta, **Arindam Bhattacharjee**, Michael Reguluski, Tim Tully, Sanjay Ghosh\*, and Dennis J. Stuehr\*. (2007) The Oxygenase Domain of *Drosophila melanogaster* Nitric Oxide Synthase: Unique Kinetic Parameters Enable a More Efficient NO

Release. *Biochemistry* 46(42):11857-64. Epub 2007 Sep 27.

9. TanmayDutta, RupamSahoo, SougataSinha Ray, **ArindamBhattacharjee**, RajibSengupta and Sanjay Ghosh (2007) Probing the Active Site Environment of Alkaliphilic Family 11 Xylanase from *PenicilliumCitrinum*: Evidence of Essential Histidine Residue at the Active Site. *Enzyme and Microbial Technology*, 41, 440–446.
10. TanmayDutta, RajibSengupta, RupamSahoo, SougataSinha Ray, **ArindamBhattacharjee** and Sanjay Ghosh (2007). A Novel Cellulasefree Alkaliphilic Xylanase from Alkali Tolerant *Penicilliumcitrinum*: Production, Purification and Characterization. *Letters in Applied Microbiology* UK 2007 Feb; 44 (2):206-11.
11. **ArindamBhattacharjee**, (2011) Role of Nitrosative Stress in Neurodegenerative Disease: A Short Review. *Recent Advances in Animal Science Research* Sept, 2011 Vol- VI B ISBN 81-88094-02-9