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Publications:

International

- S. Chowdhury, S. P. Banik, R. Majumder, **Shakuntala Ghorai,** S. Pal, P. Basak and S. Khowala. (2017) Prevention of protein aggregation by extracellular fungal sucrose of *Termitomyces clypeatus*, Turkish Journal of Biochemistry, DOI 10.1515/tjb-2016-0297. IF 0.211

- S. P. Banik, S. Mukherjee, S. Pal, **Shakuntala Ghorai,** R. Majumder, S. Khowala (2015) Enhancement of extracellular cellobiase activity by reducing agents in the filamentous fungus *Termitomyces clypeatus*, Biotechnology Letters 37 (1), 175–181, IF 1.736

- **S**. P. Banik, S. Bhattacharyya, **Shakuntala Ghorai** (2014) Isolation of a new *Penicillium chrysogenum* strain BF02 from agricultural soil of rural India producing a thermostable low K_m Cellobiase, Journal of Microbiology, Biotechnology and Food Sciences, 3(4), 322-328, IF 0.9801

- S. P. Banik, S. Pal, **Shakuntala Ghorai**, S. Chowdhury R. Majumder, S. Mukherjee, and S. Khowala (2012) *In situ* reversible aggregation of extracellular cellobiase in the filamentous fungus *Termitomyces clypeatus* Biotechnology and Bioprocess Engineering 17: 925-936 IF 1.278

- S. Pal, S. P. Banik, **Shakuntala Ghorai,** S. Chowdhury and S. Khowala. (2011) Increased enzyme secretion by 2-deoxy D-glucose in presence of succinate by suppression of metabolic enzymes in *Termitomyces clypeatus* Carbohydrate Research, 346, 2426–2431, IF 2.332

- **Shakuntala Ghorai,** S. Mukherjee, S. Mukherjee and S. Khowala. (2011) Improved Production and Properties of β-glucosidase Influenced by 2-deoxy-D-glucose in the Culture Medium of *Termitomyces clypeatus* Biotechnology and Bioprocess Engineering, 16 (2), 297-304, IF 1.004

- S. P. Banik, S. Pal, S. Chowdhury, **Shakuntala Ghorai** and S. Khowala.(2011) Evidence of an Alternative Route of Cellobiase Secretion in the Presence of
  Brefeldin A in the Filamentous Fungus *Termitomyces clypeatus* Journal of Microbiology and Biotechnology, 21(4), 412–420, IF 1.381

- **Shakuntala Ghorai**, S. Chowdhury, S. Pal, S. P. Banik and S. Khowala. (2010) Enhanced activity and stability of cellobiase (β-glucosidase: EC 3.2.1.21) produced in presence of 2-deoxy-D-glucose from the fungus *Termitomyces clypeatus* Carbohydrate Research, 345(8), 1015-1022, IF 2.025

- S. Pal, S. P. Banik, **Shakuntala Ghorai**, S. Chowdhury and S. Khowala. (2010) Purification and characterization of a thermostable intra-cellular β-glucosidase with transglycosylation properties from filamentous fungus *Termitomyces clypeatus* Bioresource Technology, 101, 2412-2420, IF 4.365

- S. Chowdhury, **Shakuntala Ghorai**, S. P. Banik, S. Pal, S. Basak and S. Khowala. (2009) Characterization of low molecular weight sucrase from filamentous fungus *Termitomyces clypeatus,* Process Biochemistry, 44, 1075-1082, IF 2.444

- **Shakuntala Ghorai**, S. P. Banik, D. Verma, S. Chowdhury, S. Mukherjee and S. Khowala. (2009) Fungal biotechnology in food and feed processing, Food Research International, 42, 577-587, IF 2.414

- S. P. Banik, S. Pal, **Shakuntala Ghorai**, S. Chowdhury and S. Khowala.(2009) Interference of sugars in the coomassie blue G dye binding assay of proteins" Analytical Biochemistry, 386, 113–115, IF 3.287

- S. Mukherjee, S. Chowdhury, **Shakuntala Ghorai**, S. Pal and S. Khowala. (2006) Cellobiase from *Termitomyces clypeatus*: activity and secretion in presence of glycosylation inhibitors, Biotechnology Letters, 28, 1773-1778, IF 1.768

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- S. P. Banik, S. Pal, **Shakuntala Ghorai**, R. Majumder, S. Mukherjee, S. Chowdhury and S. Khowala (2011) Comparative elucidation of properties of sucrase-cellobiase co-aggregate produced in media containing sucrose by *Termitomyces clypeatus,* Indian Journal of Biotechnology, 10, 468-479, IF 0.55

Book Chapter (2):

- **Shakuntala Ghorai**, S P Banik, D Verma,S chowdhury, S Mukherjee, S khowala (2011) Food Ingredients / Fungal Biotechnology in Food and Feed Processing. In: *Comprehensive Biotechnology*, Murray Moo-Young (ed.), Second Edition, Vol 3, pp. 603-615. Elsevier.

- S Pal, B Guha, A Maity, **Shakuntala Ghorai**, S Khowala (2010) Microbial food enzymes In: *Food Biotechnology*, A. Pandey, C. Larroche, C. R. Soccol (ed.), pp 582-617. Asiatech Publishers Inc. New Delhi, India.

Seminar Proceedings (1):

- S P Banik, S Bhattacharya, **Shakuntala Ghorai** (2012) Isolation of a cellulolytic filamentous fungus (BF02) from agricultural soil of rural West Bengal. In: *Proceedings of the National Level Conference on Biodiversity: Threats and Conservation through Traditional and Biotechnological Approaches*, H Saha, ML Ghosh, G Gangopadhyay, D Saha, PK Singh, S Sarker, SC Das (ed.), Dum Dum Motojheel College (West Bengal State University), Kolkata, India.

Sequence submission in public databases (1):

- **S**. P. Banik, S. Bhattacharyya, **Shakuntala Ghorai** (2012) "*Penicillium chrysogenum* strain BF02 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence" submitted to GenBank (Accession no. KC469896)