

Dr Amit Roy

Associate Professor

Contact Address

Department of Biotechnology
Siksha-Bhavana
Visva-Bharati University
Santiniketan 731235, West Bengal, India

Telefax and Cell

+91-3463261101 (Office)

+91-9433144948 (Cell)

Email

amit.roy@visva-bharati.ac.in

Education

B.Sc. in Zoology (Hons.) 1978 (University of Calcutta; Degree awarded in 1980).

M.Sc. (Zoology) 1980 (University of Calcutta; Degree awarded in 1982).

Ph.D. (Science) 1988 (University of Calcutta).

Present Research Areas

Plant bioactive compounds.

Molecular biology of enzymes involved in carbohydrate metabolism of fungus.

Professional Training

Post doctoral fellow USUHS (Bethesda, MD, USA) September, 1986 – May, 1988.

Post doctoral fellow, Columbia University, (New York, USA) June, 1988 – February, 1992.

Post doctoral fellow, Sloan Kettering Cancer Centre, (New York, USA), June, 1992 – June, 1994

Pool Officer & other posts (CSIR), Indian Institute of Chemical Biology, (India) March, 1995 – March, 2000.

Post doctoral fellow, Univ. Illinois, Chicago (USA), March, 2000 - January, 2002.

Visiting Scholar, Univ. Illinois, Chicago (USA), June, 2003 - October, 2003.

Research funding received in the last 5 years

a) "Cloning and characterizations of a gene encoding cellobiose dehydrogenase from *Termitomyces clypeatus* and its expression in yeast" – (Major research project funded by University Grants Commission, Govt. of India. (01 April, 2007 to 30 September, 2010).

b) "Screening and characterization of antimicrobial compound(s) from *Ceriops decandra*, a beneficial mangrove plant from Indian Sundarban estuary" – Major research project funded by University Grants Commission, Govt. of India. (01 July, 2011 to 30 June, 2014)

Recent publications:

- 1) Vinod Kumar Gupta, Amit Roy, Vikas K Nigam and Kalishankar Mukherjee. Antimicrobial activity of *Spondias pinnata* resin. Journal of Medicinal Plants Research. Volume 4(16), pages 1656 – 1661, August 2010. DOI: 10.5897/JMPR10.182. Publisher: Academic Journals. ISSN 1996-0875.
- 2) Aritra Simlai and Amit Roy. Analysis of and correlation between phytochemical and antimicrobial constituents of *Ceriops decandra*, a medicinal mangrove plant, from Sundarban estuary. Journal of Medicinal Plants Research. Volume 6(32), Pages 4755 – 4765, August 2012. DOI: 10.5897/JMPR12.657. Publisher: Academic Journals. ISSN 1996-0875.
- 3) Vinod Kumar Gupta and Amit Roy. Comparative study of antimicrobial activities of some mangrove plants from Sundarban estuarine regions of India. Journal of Medicinal Plants Research. Volume 6(42), Pages 5480 – 5488, November, 2012. DOI: 10.5897/JMPR12.121. Publisher: Academic Journals. ISSN 1996-0875.
- 4) Vinod Kumar Gupta, Charanjeet Kaur, Aritra Simlai and Amit Roy. Antimicrobial activity of *Pavetta indica* leaves. Journal of Applied Pharmaceutical Science. Volume 3(04), Pages 078 – 082, April 2013. DOI: 10.7324/JAPS.2013.3414. ISSN 2231-3354.
- 5) Aritra Simlai and Amit Roy. Biological activities and chemical constituents of some mangrove species from Sundarban estuary: An Overview. Pharmacognosy Reviews (July – December Issue, 2013; Online 25 October, 2013), Volume 7, Issue 14, Pages 170 - 178. DOI:10.4103/0973-7847.120518. Publisher: Medknow Publications (Wolters Kluwer). ISSN: Print 0973-7847, Online - 0976-2787.
- 6) Aritra Simlai, Kashinath Chatterjee and Amit Roy. A comparative study on antioxidant potentials of some leafy vegetables consumed widely in India. Journal of Food Biochemistry. Volume 38, Issue 3 (June 2014), Pages 365 - 373. Available online since 17 December, 2013. DOI:10.1111/jfbc.12062. Publisher: Wiley Online Library. Online ISSN: 1745-4514.
- 7) Vinod Kumar Gupta, Aritra Simlai, Manish Tiwari, Kashinath Bhattacharya and Amit Roy. Phytochemical contents, antimicrobial and antioxidative activities of *Solanum sisymbriifolium*. Journal of Applied Pharmaceutical Science. Volume 4(03), Pages 075 – 080, March 2014. DOI: 10.7324/JAPS.2014.40315. ISSN 2231-3354.
- 8) Prabuddha Sarkar and Amit Roy. Molecular cloning, characterization and expression of a gene encoding phosphoketolase from *Termitomyces clypeatus*. Biochemical and Biophysical Research Communications. Volume 447, Issue 4 (16 May, 2014), Pages 621 - 625. Available online since 18 April, 2014. Publisher: Elsevier. ISSN:0006-291X. DOI:10.1016/j.bbrc.2014.04.054.

- 9) Vinod K Gupta, Kalishankar Mukherjee and Amit Roy. Two novel antifungals, acornine1 and acornine 2, from the bark of mangrove plant *Aegiceras corniculatum* (Linn.) Blanco from Sundarban estuary. *Pharmacognosy Magazine*. Volume 10, Issue 38 (28 May, 2014), Pages 342 - 349. Publisher: Medknow Publications (Wolters Kluwer). ISSN: Print 0973-1296, Online - 0976-4062. DOI: 10.4103/0973-1296.133293.
- 10) Aritra Simlai, Archana Rai, Saumya Mishra, Kalishankar Mukherjee, Amit Roy. Antimicrobial and antioxidative activities in the bark extracts of *Sonneratia caseolaris*, a mangrove plant. *EXCLI Journal*; Volume 13, Pages 997-1010; August 29, 2014. Publisher: Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany. ISSN 1611-2156.
- 11) Anand Patwardhan, Samit Ray and Amit Roy. Molecular Markers in Phylogenetic studies – A review. *J Phylogenetics and Evolutionary Biology*. Volume 2:2, 131. Publisher: OMICS Publishing Group. ISSN 2329-9002. DOI: 0.4172/2329-9002.1000131.