



NORTH ORISSA UNIVERSITY
DEPARTMENT OF ZOOLOGY
TAKATPUR, BARIPDA, MAYURBHANJ, ODISHA-757003



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Assistant Professor

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I. Field of Specialization:

Molecular Oncology

II. Academic Qualifications and Training:

- M.Sc. (Zoology): Berhampur University, Berhampur, India
- Ph.D. (Life Sciences): Institute of Life Sciences, Bhubaneswar (Utkal University), India
- Post-doctoral training: City University of New York, USA
- Ramalingaswami Fellow: Utkal University, Bhubaneswar, India

III. Honors and Fellowship:

- **Ramalingaswami Research Fellowship-2012-13** of Department of Biotechnology (DBT), Government of India
- Qualified national level examination of **CSIR-JRF-NET -2001** and recipient of both junior and senior research fellowships from Council of Scientific and Industrial Research (CSIR), New Delhi

IV. Patent:

- Activity enhancing curcumin compositions and methods of use. Publication number: WO2015081319A2

V. Publications:

1. Kumar D, Basu S, Parija L, Rout D, Manna S, Dandapat J, Debata PR. Curcumin and Ellagic acid synergistically induce ROS generation, DNA damage, p53 accumulation and apoptosis in HeLa cervical carcinoma cells. Biomed and Pharma. 2016 (81) 31-37
2. Punia A, Debata PR, Banerjee P, Yang NL. Structure–property relationships of antibacterial amphiphilic polymers derived from 2-aminoethyl acrylate RSC Advances. 2015 Oct 5 (115), 95300-95306
3. Castellanos MR, Szerszen A, Gundry S, Pirog EC, Maiman M, Rajupet S, Gomez JP, Davidov A, Debata PR, Banerjee P, Fata JE. Diagnostic imaging of cervical intraepithelial neoplasia based on hematoxylin and eosin fluorescence. Diagn Pathol. 2015 Jul 25;10(1):119.
4. Langone P, Debata PR*, Inigo Jdel R, Dolai S, Mukherjee S, Halat P, Mastroianni K, Curcio GM, Castellanos MR, Raja K, Banerjee P. Coupling to a glioblastoma-directed antibody potentiates antitumor activity of curcumin. Int J Cancer. 2014 Aug 1;135(3):710-9. (* Equal first authorship)

5. Debata PR, Begum S, Mata A, Genzer O, Kleiner MJ, Banerjee P, Castellanos MR. Curcumin potentiates the ability of sunitinib to eliminate the VHL-lacking renal cancer cells 786-O: rapid inhibition of Rb phosphorylation as a preamble to cyclin D1 inhibition. *Anticancer Agents Med Chem.* 2013 Dec; 13(10):1508-13.
6. Debata PR, Castellanos MR, Fata JE, Baggett S, Rajupet S, Szerszen A, Begum S, Mata A, Murty VV, Opitz LM, Banerjee P. A novel curcumin-based vaginal cream Vacurin selectively eliminates apposed human cervical cancer cells. *Gynecol Oncol.* 2013 Apr;129(1):145-53.
7. Mogha A, Guariglia SR, Debata PR, Wen GY, Banerjee P. Serotonin 1A receptor-mediated signaling through ERK and PKC α is essential for normal synaptogenesis in neonatal mouse hippocampus. *Transl Psychiatry.* 2012 Jan 10;2:e66.
8. Levano K, Punia V, Raghunath M, Debata PR, Curcio GM, Mogha A, Purkayastha S, McCloskey D, Fata J, Banerjee P. Atp8a1 deficiency is associated with phosphatidylserine externalization in hippocampus and delayed hippocampus-dependent learning. *J Neurochem.* 2012 Jan;120(2):302-13.
9. Langone P, Debata PR*, Dolai S, Curcio GM, Inigo Jdel R, Raja K, Banerjee P. Coupling to a cancer cell-specific antibody potentiates tumoricidal properties of curcumin. *Int J Cancer.* 2012 Aug 15;131(4):E569-78. (* Equal first authorship)
10. Debata PR, Ranasinghe B, Berliner A, Curcio GM, Tantry SJ, Ponimaskin E, Banerjee P. Erk1/2-dependent phosphorylation of PKC α at threonine 638 in hippocampal 5-HT(1A) receptor-mediated signaling. *Biochem Biophys Res Commun.* 2010 Jul 2;397(3):401-6.
11. Levano K, Sobocki T, Jayman F, Debata PR, Sobocka MB, Banerjee P. A genetic strategy involving a glycosyltransferase promoter and a lipid translocating enzyme to eliminate cancer cells. *Glycoconj J.* 2009 Aug;26(6):739-48.
12. Rath B, Pandey RS, Debata PR, Maruyama N, Supakar PC. Molecular characterization of senescence marker protein-30 gene promoter: identification of repressor elements and functional nuclear factor binding sites. *BMC Mol Biol.* 2008 Apr 29;9:43.
13. Kumar S, Debata PR, Supakar PC. Prediction of 3-Dimensional Structure of Cathepsin L Protein of Rattus Norvrgicus. *J Proteomics Bioinform* 1: 307-314
14. Panda H, Pandey RS, Debata PR, Supakar PC. Cloning, expression, and functional analysis of rat liver cytosolic inorganic pyrophosphatase gene and characterization of its functional promoter. *Gene Expr.* 2007;14(1):13-22.

15. Panda H, Pandey RS, Debata PR, Supakar PC. Age-dependent differential expression and activity of rat liver cytosolic inorganic pyrophosphatase gene. *Biogerontology*. 2007 Oct;8(5):517-25.
16. Debata PR, Panda H, Supakar PC. Altered expression of trefoil factor 3 and cathepsin L gene in rat kidney during aging. *Biogerontology*. 2007 Feb;8(1):25-30.

Book Chapters:

1. **Debata PR**, Curcio GM, Mukherjee S, and Banerjee P (2014) Causal Factors for Brain Tumor and Targeted Strategies, *Universe of Scales: From Nanotechnology to Cosmology*, Pages: 191-204 Springer International Publishing
2. Samaddar S, Ranasinghe B, Tantry SJ, **Debata PR**, Banerjee P. Involvement of Vascular Endothelial Growth Factor in Serotonin 1A Receptor-Mediated Neuroproliferation in Neonatal Mouse Hippocampus. *Adv Exp Med Biol*.2015; 842:375-88. Springer International Publishing

VI. Nucleic Acid Sequence Deposited to Gen Bank

Panda H, Pandey, RS, **Debata PR**, Supakar PC: *Rattus norvegicus* cytosolic inorganic pyrophosphatase gene, promoter region and exon 1. ***GenBank accession number*** DQ978330