

Deba Prasad Mandal

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EDUCATION

2001-2007

PhD. , Bose Institute, Kolkata, India.

2000-2002

MSc in Zoology; University of Kalyani, Nadia, West Bengal, India.

EMPLOYMENT

04-06-2009 - till date West Bengal State University.

28-11-2006 - 03-06-2009 Durgapur Government College

AWARDS & FELLOWSHIPS

- Junior Research Fellowship from UGC-JRF (NET-July 2001)
- Junior Research Fellowship from CSIR-JRF (NET-December 2001)
- Qualified GATE (2001) [AIR – 301 Percentile- 84.36]

RESEARCH INTERESTS

Principal Lead Investigator: Molecular Oncology and Toxicology Laboratory

Research Scholars

PhD completed

Sl. No.	Name	Title of Thesis
1.	Kartick Patra	Exploring the anti-tumor potential of Cinnamon extract and its major purified components cinnamaldehyde and cinnamic acid
2.	Samarjit Jana	Investigating the modulation of signalling pathways in cancer cells by Linalool and Anethole.
3.	Arnab Sarkar	Effect of capsaicin and eugenol in gastric carcinoma in vitro

PhD Scholars

1. Asiqur Rahaman ; 2. Ipsita Biswas; 3. Indrajit Das

PUBLICATIONS

Total- 31 Research Articles and 4 Book Chapters.

5 recent best publications in peer-reviewed Journals: (“*” = Corresponding Author)

1. Sarkar A, Das S, Rahaman A, Das Talukdar A, Bhattacharjee S*, **Mandal DP***. Eugenol and capsaicin exhibit anti-metastatic activity via modulating TGF- β signaling in gastric carcinoma. **Food Funct.** 2020 Oct 21;11(10):9020-9034. (**Impact factor – 5.396**)
2. Sarkar A, Rahaman A, Biswas I, Mukherjee G, Chatterjee S, Bhattacharjee S*, **Mandal DP***. TGF β mediated LINC00273 upregulation sponges mir200a-3p and promotes invasion and metastasis by activating ZEB1. **J Cell Physiol.** 2020 Feb 4. doi: 10.1002/jcp.29614. (**Impact factor:6.384**)
3. Patra K, Jana S, Sarkar A, **Mandal DP***, Bhattacharjee S* (2019). The inhibition of hypoxia-induced angiogenesis and metastasis by cinnamaldehyde is mediated by decreasing HIF-1 α protein synthesis via PI3K/Akt pathway. **Biofactors.** 45(3):401-415. (**Impact factor:6.113**)
4. Jana S, Patra K, Jana J, **Mandal DP***, Bhattacharjee S. Nrf-2 transcriptionally activates P21Cip/WAF1 and promotes A549 cell survival against oxidative stress induced by H₂O₂. **Chem Biol Interact.** 2018 Apr 1;285:59-68. doi: 10.1016/j.cbi.2018.02.030. Epub 2018 Feb 24. (Impact Factor :5.19)
5. Jana S, Jana J, Patra K, Mondal S, Bhat J, Sarkar A, Sengupta P, Biswas A, Mukherjee M, Tripathi SP, Gangwal R, Hazra J, Sangamwar AT, Mukherjee G, Bhattacharjee S, **Mandal DP***, Chatterjee S. LINC RNA00273 promotes cancer metastasis and its G-Quadruplex promoter can serve as a novel target to inhibit cancer invasiveness. **Oncotarget.** 2017 Nov 17;8(66):110234-110256. doi: 10.18632/oncotarget.22622. eCollection 2017 Dec 15. PubMed PMID: 29299144; PubMed Central PMCID: PMC5746379. (Impact Factor :5.16)

Book Chapters

S. No	Title	Author's Name	Publisher	Year of Publication
1.	Using Microscopy to Unravel the 'Hallmarks' of Cancer Cells, in: Merin Sara Thomas, Jozef T. Haponiuk, Sabu Thomas, Anne George (Eds), Advanced Microscopy A Strong Analytical Tool in Materials Science.	Shamee Bhattacharjee and Deba Prasad Mandal	Apple Academic Press (In production) Publication Date: July 2022, ISBN: 9781774910429	2022
2.	Chapter 13. Non-Coding RNAs : The New Reins in Malignancies; in Book Rediscovering Cancer: From Mechanism to Therapy; Edited by Sayali Mukherjee, Somali Sanyal, Sonia Chadha,	Deba Prasad Mandal	Apple Academic Press	2018
3.	Chapter 18. Cancer Immunotherapy: Extending New Horizons in Cancer Treatment; in Book Rediscovering Cancer: From Mechanism to Therapy; Edited by Sayali Mukherjee, Somali Sanyal, Sonia Chadha,	Deba Prasad Mandal	Apple Academic Press	2018
4.	Chapter 7: Cancer prevention by cancer regression and rejuvenation of host defence system: Dual role of tea.: Medicinal Properties of TEA (Eds. B Banerjee & TC Chaudhury)	Lahiry L, Mandal D. Bhattacharyya A, Sa G & Das T.	Oxford & IBH Publishing Co. Pvt.Ltd. New Delhi & Science Publishers Inc., New Hampshire, USA. (2005)	2005

PATENTS

PATENTS:

US Patent Granted (No. 9, 682, 926 B2 dated 20th June 2017), Australian Patent Granted (AU2018201532 dated 6th February 2020), European Patent Granted (EP2900234B1 dated 28th October 2020) on "A cancer chemotherapeutic agent/formulation, manufacture and use thereof".

RESEARCH PROJECTS

Ongoing Projects

Sl. No.	Title of Project	PI/ CoPI	Funding Agency	Amount Lakhs	Date of sanction and Duration
1	Using Capsaicin to target TGFbeta in premetastatic microenvironment: Aendeavor to restrict metastasis in combination with doxorubicin in 4T1cells implanted murine breast cancer model	PI	DST SERB	43.64	Nov 2019 3 years
2.	Targeting Xenobiotic Efflux Transporters and Cytochrome P450: Exploring a novel approach to mitigate Pesticide Toxicity	CoPI	DST SERB	33.8412	Feb 2020 3Years

Completed Research Projects

Sl. No.	Title of Project	PI/ Co-PI	Funding Agency	Amount (Lakhs)	Date of completion
1	Validation of some North East Indian traditional anti-inflammatory plants for antiproliferative, anti-angiogenic and anti-metastatic properties: In search of novel anticancer agents	Co-PI	DBT-NER	37.14	2019
2	Overcoming EGFR resistant Oral Squamous Cell Carcinomas with traditional healers of Tripura – A Preclinical Study”	Co-PI	DBT-NER	32 lakhs	1/04/2014 3 yr.
3	An investigation into the cross-talk between transcription factors HIF-1 α /2 α and Nrf-2 and their modulation by the use of active ingredients of black pepper (<i>Piper nigrum</i>) and coriander(<i>Coriandrum sativum</i>).	PI	DBT	24.816 lakhs	29 th July 2015
4	Modulation of tumor angiogenesis by the use of active ingredients of <i>Pimpenella anisum</i> and <i>Coriandrum sativum</i> in mice, a preclinical study. Sanction No. Ref No. 37(1487)/1 1/EMR-II	Co-PI	CSIR, Govt. of India	Rs 15 lacs approx.	31 st March 2013
5	An Investigation into the Regulation of Nrf2 transcription factor by diosgenin and 1, 8-cineole using the p53/p21 axis in lung and leukaemic cancer. Letter No. 5/13/49/10/NCD-III, dated 30-05 -2011	Co-PI	Indian Council of Medical Research, Govt. of India.	Rs 23 lacs approx.	28 th February 2015
6	Investigation into the modulation of TGFb signaling by capsaicin and eugenol using the p53/p21 axis in gastric carcinoma. BT/PR15116/GBD/27/327/2011 dated 09/03/2011	PI	Department of Biotechnology, Govt. of India	37 lacs approx.	31 st March 2013

LIST OF COLLABORATORS

Dr. Shamee Bhattacharjee, Department of Zoology, West Bengal State University
Dr. Subhragshu Chatterjee, Department of Biophysics, Bose Institute.
Dr. Utpal De , Department of Chemistry, Tripura University
Dr. Gopeswar Mukherjee, Department of Pathology, Barasat District Hospital.
Dr. Anirban Bhunia, Department of Biophysics, Bose Institute.
Dr. Mridu Gupta, Department Dravyaguna (Medicinal plant Pharmacology), Institute of Post Graduate Ayurvedic Education and Research.
Dr. Surekha Kundu, Department of Botany, University of Calcutta
Dr. Anupam Das Talukdar, Department of Life Science and Bioinformatics, Assam University, Silchar-788011, India.

PERSONAL DATA

DATE OF BIRTH: 6th September, 1972 PLACE OF BIRTH: India LANGUAGES: Bengali, English
