
Curriculum Vitae

Shamee Bhattacharjee, Assistant Professor, Dept of Zoology, West Bengal State University

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ACADEMIC QUALIFICATION

2002-2007

PhD. Cancer Chemoprevention, Chittaranjan National Cancer Institute, Kolkata, India.

2000-2002

MSc in Zoology: University of Calcutta, Ballygunge Science College, Kolkata, India.

1997-2000

BSc in Zoology (Honours): Bethune College, Kolkata, India

TEACHING EXPERIENCE

04.04.2009-till date West Bengal State University

04.04.2008-03.04.2009 Serampore College

SPECIALIZATION

Toxicology and Cancer Biology

TEACHING ACTIVITIES

Lectures on Molecular Biology, Cell Biology, Cancer Biology & Toxicology

HONOURS AND AWARDS RECEIVED

- National Scholarship from Govt. of India for performance in BSc (Hons) degree, 2000.
- Rank Holder in the Post Graduate examinations, 2002.
- Junior Research Fellowship from CSIR-UGC NET, 2003.
- Qualified State Level Eligibility Test (SLET) for Lecturership, 2003.
- CSIR Research Associate in 2008 (File No. 09/030 (0050)/2008-EMR-I).
- DST Fastrack Award for Young Scientists in 2010.
- **DBT-CTEP Travel Fellowship** for attending Pharma-Nutrition conference held in **Philadelphia, USA in April 2015**
- **International Travel Fellowship** Grant from Department of Science and Technology (DST), Govt. of India to attend Phytochemical Society of Europe (PSE)-Meeting **2019 in Lisbon, Portugal.**
- **Indo-US Overseas Fellowship** from Indo-US Science & Technology Forum (IUSSTF) Supported by Department of Science and Technology (DST), Govt. of India to visit **Texas A&M Institute of Biosciences and Technology, Houston, USA for 6 months**

AREAS OF RESEARCH INTEREST:

Focus is on studying deregulation of cellular signaling pathways during carcinogenesis and during toxicant exposure. Major emphasis is to identify effective anticancer agents, especially from natural products, and decipher their mechanism of action in cancer cells.

PUBLICATIONS:

Total- 31 Research Articles and 6 Book Chapters.

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

1. **Bhattacharjee S**, Dashwood RH. Epigenetic Regulation of NRF2/KEAP1 by Phytochemicals. **Antioxidants (Basel)**. 2020 Sep 14;9(9):E865. **(Impact factor – 6.312)**
2. **Bhattacharjee S***, Li J, Dashwood RH*. Emerging crosstalk between long non-coding RNAs and Nrf2 signaling. **Cancer Lett**. 2020 Oct 10; 490:154-164. **(Impact factor – 8.679)**
3. 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)**
4. 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)**
5. 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)**

Recent Book Chapters

1. **Bhattacharjee S** (2018). Dietary Phytochemicals in the Prevention and Therapy of Cancer: Modulation of molecular Targets Modulation of Molecular Targets, in: Mukherjee S, Sanyal S and Chadha S (Eds), **Rediscovering Cancer From Mechanism to Therapy**, **Apple Academic Press, USA**, pp 315-169, e-ISBN 9781351166560.
2. Subrata Das, Prakash Roy Choudhury, Priyanka Saha, Manabendra Dutta Choudhury, **Shamee Bhattacharjee**, Deepa Nath, Anupam Das Talukdar (2019). Management of Plant-Derived Beverages of North-East India: A Traditional Approach, Editor(s): Alexandru Mihai Grumezescu, Alina Maria Holban, Production and Management of Beverages, **Woodhead Publishing**, Pages 123-150, e-ISBN 9780128152607.
3. Bhattacharjee S (2019). ROS: modulator of therapeutic response in non small cell lung carcinoma, in: Sajal Chakraborti, Narsimham L Parinandi, Rita Ghosh, Nirmal Kumar Ganguly, Tapati Chakraborti (Eds), **Oxidative Stress in Lung Diseases - Volume 2**. **Springer**, Pages 363-383, e-ISBN: 978-981-32-9366-3.
4. Shamee Bhattacharjee and Deba Prasad Mandal (2022). 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**. **Apple Academic Press (In production)** Publication Date: July 2022, ISBN: 9781774910429.

RESEARCH PROJECTS: 6 as PI and 2 as Co-PI

Sl No.	Title of the Project	Amount (in Rs)	Status	Fudging Agency
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1.	Modulation of tumor angiogenesis by the use of active ingredients of <i>Pimpinella anisum</i> and <i>Coriandrum sativum</i> in mice, a preclinical study.	15lakhs.	Completed	CSIR, Govt. of India Sanction No. Ref No. 37(1487)/1/EMR-II
2.	An Investigation into the Agrochemical-induced toxicity in native fishes of the North24 Parganas district of West Bengal associated with agricultural run-off events.	18 lakhs	Completed	SERC Fast Track Proposals for Young Scientists Scheme Registration. N.o. 0466/2009, dated 30th June,2010
3.	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.	23 lakhs	Completed	ICMR, Govt. of India. Letter No. 5/13/49/10/NCD-III, dated 30-05 - 2011
4.	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>).	24.816 lakhs	Completed	DBT, Govt. of India
5.	Validation of some North East Indian traditional anti- inflammatory plants for antiproliferative, anti-angiogenic anti-metastatic properties: In search of novel anticancer agents	37.14 lakhs	Ongoing	DBT under Twinning Program 2015-16.
6.	Targeting Xenobiotic Efflux Transporters and Cytochrome P450: Exploring a novel approach to mitigate Pesticide Toxicity	33.8412 lakhs	Ongoing	DST-SERB, Govt. Of India (Core Research Grant)

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”.