Dr. Tathagata Choudhuri, PhD

Contact Address

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Academic positions

- Associate Professor: 2013- Contd , Dept of Biotechnology, Visva Bharati
- Scientist: 2007-2013, Institute of Life Sciences, Bhubaneswar-751023, India
- Postdoctoral Research Fellow : 2004-2007, University Of Pennsylvania, Philadelphia, USA
- Postdoctoral Research Fellow : 2003-2004, Indiana University, Indianapolis, USA

Academic Qualifications

- Ph.D. (2004): Jadavpur University (Bose Institute).
- M.Sc. (1996): Kalyani University
- B.Sc. (1994): Chemistry (Hons)

Research Areas

Tumor Virology, Replication of tumor viruses like, EBV, and KSHV (related herpes virus also) ,Hepatitis C and their interaction with host as well as cell cycle modulation for tumorgenesis, Viral Immunology

Specialization:

- Virology
- Cell Biology
- Animal Biotechnology

Research Projects:

Completed four projects supported by DBT, 2008-2013
Current projects: Two (DBT funded), One (ICAR)

Editorial Board Member of Scientific Journal

- Associate Editor, Virus Disease
- Associate Editor, Journal of Immunology and Vaccine Technology

Membership in Professional Society

Member, Indian Immunology Society, India
Member, Society of Biological Chemists, India
Member, The Cytometry Society of India
Member, International Association for EBV and associated diseases

Research Publications:

- Publications in peer reviewed journals = 33
- Full papers in symposium proceedings and book chapters = 3 ;

Representative Peer Reviewed Publications

1. Kumar A, Sahu SK, Mohanty S, Chakrabarti S, Maji S, Reddy RR, Jha AK, Goswami C, Kundu CN, Rajasubramaniam S, Verma SC, **Choudhuri T.** Kaposi Sarcoma Herpes Virus Latency Associated Nuclear Antigen Protein Release the G2/M Cell Cycle Blocks by Modulating ATM/ATR Mediated Checkpoint Pathway. PLoS One. 2014 Jun 27;9(6):e100228.
2. Chakraborty S, Adhikary A, Mazumdar M, Mukherjee S, Bhattacharjee P, Guha D, **Choudhuri T,** Chattopadhyay S, Sa G, Sen A, Das T. Capsaicin-Induced Activation of p53-SMAR1 Auto-Regulatory Loop Down-Regulates VEGF in Non-Small Cell Lung Cancer to Restrain Angiogenesis. PLoS One. 2014 Jun 13;9(6):e99743.
3. Mohapatra P, Satapathy SR, Das D, Siddharth S, **Choudhuri T,** Kundu CN. Resveratrol

mediated cell death in cigarette smoke transformed breast epithelial cells is through induction of p21Waf1/Cip1 and inhibition of long patch base excision repair pathway. Toxicol Appl Pharmacol. 2014 Mar 15;275(3):221-31.

4. Siddharth S, Mohapatra P, Preet R, Das D, Satapathy SR, **Choudhuri T**, Kundu CN.Induction of Apoptosis by 4-(3-(tert-butylamino)imidazo[1,2-α]pyridine-2-yl) Benzoic Acid in Breast Cancer Cells via Upregulation of PTEN. Oncol Res. 2013;21(1):1-13.
5. Sahu SK, Mohanty S, Kumar A, Kundu CN, Verma SC, **Choudhuri T.** Epstein Barr virus nuclear antigen3C interacts with p73: interplay between a viral oncoprotein and cellular tumor suppressor. Virology. Volume 448, 5 January 2014, Pages 333–343
6. Sahu SK, **Choudhuri T**. Lack of Association between Bax Promoter (-248G>A) Single Nucleotide Polymorphism and Susceptibility towards Cancer: Evidence from a Meta-Analysis. PLoS One. 2013 Oct 17;8(10):e77534
7. Mohapatra P, Preet R, Das D, Satapathy SR, Choudhuri T, Wyatt MD, Kundu CN. Quinacrine-mediated autophagy and apoptosis in colon cancer cells is through a p53- and p21-dependent mechanism. Oncol Res. 2012;20(2-3):81-91.
8. Satapathy SR, Mohapatra P, Preet R, Das D, Sarkar B, Choudhuri T, Wyatt MD, Kundu CN. 1. Silver-based nanoparticles induce apoptosis in human colon cancer cells mediated through p53.Nanomedicine (Lond). 2013 Aug;8(8):1307-22. doi: 10.2217/nnm.12.176. Epub 2013 Mar 21
9. Mohapatra P, Preet R, Das D, Satapathy SR, Siddharth S, Choudhuri T, Wyatt MD, Kundu CN.The contribution of heavy metals in cigarette smoke condensate to malignant transformation of breast epithelial cells and in vivo initiation of neoplasia through induction of a PI3K-AKT-NFκB cascade.Toxicol Appl Pharmacol. 2013 Oct 5.
10. Preet R, Mohapatra P, Das D, Satapathy SR, **Choudhuri T,** Wyatt MD, Kundu CN.Carcinogenesis. 2012 Nov 5. [Lycopene Synergistically Enhances Quinacrine Action to Inhibit Wnt-TCF Signaling in Breast Cancer Cells Through APC
11. Mohapatra P, Preet R, Choudhuri M, **Choudhuri T,** Kundu CN. 5-fluorouracil increases the chemopreventive potentials of resveratrol through DNA damage and MAPK signaling pathway in human colorectal cancer cells. Oncol Res. 2011;19(7):311-21.
12. Preet R, Mohapatra P, Mohanty S, Sahu SK, **Choudhuri T**, Wyatt MD, Kundu CN. Quinacrine has anti-cancer activity in breast cancer cells through inhibition of topoisomerase activity. Int J Cancer. 2011 May 4.. [Epub ahead of print]
13. **Choudhuri T**, Murakami M, Kaul R, Sahu SK, Mohanty S, Verma SC, Kumar P, Robertson ES. *Nm23-H1 can induce cell cycle arrest and apoptosis in B cells.* Cancer Biol Ther. 2010 Jun 11;9(12).
14. Yi F, Saha A, Murakami M, Kumar P, Knight JS, Cai Q, **Choudhuri T,** Robertson ES.(2009) Epstein-Barr virus nuclear antigen 3C targets p53 and modulates its transcriptional and apoptotic activities. Virology Jun 5;388(2):236-47
15. Kaul R, Murakami M, **Choudhuri T,** Robertson ES (2009). EBNA3C can modulate the activities of the transcription factor Necdin in association with the metastasis suppressor protein Nm23-H1. J Virol. May;83(10):4871-83
16. Lan K, Murakami M, **Choudhuri T,** Tsai DE, Schuster SJ, Wasik MA, Robertson ES (2008).Detection of Epstein-Barr virus in T-cell prolymphocytic leukemia cells in vitro. J Clin Virol Sep 12.
17. Lahiry L, Saha B, Chakraborty J, Bhattacharyya S, Chattopadhyay S, Banerjee S, **Choudhuri T**, Mandal D, Bhattacharyya A, Sa G, Das T(2008). Contribution of p53-mediated Bax transactivation in theaflavin-induced mammary epithelial carcinoma cell apoptosis. Apoptosis,13(6): 771-81
18. Verma SC, Lan K, **Choudhuri T**, Cotter MA and Robertson ES (2007). An Autonomous Replicating Element within the KSHV Genome. Cell Host & Microbes. 2 (2), 106-118
19. Kaul R, Murakami M, **Choudhuri T,** Robertson ES (2007).. Epstein Barr Virus Latent Nuclear Antigens can Induce Metastasis in a Nude Mice Model J Virol., 81(19):10352-61
20. **Choudhuri T**, Verma SC, Lan K, Murakami M, Robertson ES (2007). The ATM/ATR signaling effector Chk2 is targeted by Epstein-Barr virus nuclear antigen 3C to release the

G2/M cell cycle block. J Virol. 81(12), 6718-30
21. Verma SC, **Choudhuri T** and Erle S. Robertson (2007).The minimal replicator element of the Kaposi's sarcoma-associated herpesvirus terminal repeat supports replication in a semiconservative and cell-cycle-dependent manner. J Virol. 81(7):3402-13
22. Lan K, **Choudhuri T,** Murakami M, Kuppers DK, Robertson ES (2006). Intracellular Activated Notch1 Is Essential for the Proliferation of KSHV Associated B cell Lymphoma in vitro. J Virology , 80 (13), 6411-6419
23. Lan K, Murakami M, **Choudhuri T**, Kuppers DA, Robertson ES (2006). Intracellular-activated Notch1 can reactivate Kaposi's sarcoma-associated herpesvirus from latency. Virology. 351(2):393-403.
24. **Choudhuri T**, Verma SC, Lan K, Robertson ES (2006). Expression of Alpha v integrin is Modulated by the Epstein - Barr virus Nuclear Antigen 3C and the Metastasis Suppressor Nm23-H1 through interaction with the GATA 1 and Sp1 Transcription Factors. Virology, 351(1), 58-72.
25. Verma SC, Lan K, **Choudhuri T,** Robertson ES (2006). KSHV encoded LANA modulates K1 Expression through its cis-acting elements within the Terminal Repeats. J Virol.80 (7), 3445-3458.
26. Verma SC, Choudhuri T, Kaul R, Robertson ES (2006). Latency Associated Nuclear Antigen of Kaposis sarcoma Associated Herpesvirus Interacts with Origin Recognition Complexes at the LANA Binding Sequence within the Terminal Repeats. J Virol.80(5), 2243-2256
27. Kaul R, Verma SC, Murakami M, Lan K, **Choudhuri T**, Robertson ES (2006). Epstein - Barr virus protein can up-regulates Cyclooxygenase-2 expression through Association with the Suppressor of Metastasis Nm23-H1. J Virol. 80 (3).1321-1331
28. Pal S, Bhattacharyya S, **Choudhuri T**, Datta GK, Das T, Sa G. (2005) Amelioration of immunosupression and potentiation of depressed detoxification system of tumor-bearing mice by Curcumin. Cancer Detect Prev. 29(5), 470-4788.
29. Mandal D, Bhattacharyya A, Lahiry L, **Choudhuri T** ,Sa G, Das T (2005). Failure in peripheral immunosurveillance due to thymic atrophy: Importance of thymocyte maturation and apoptosis in adult tumor bearer. Life Sci.77 (21),2703-2716
30. **Choudhuri T**, Pal S, Das T, Sa G (2005) Curcumin selectively induces apoptosis in deregulated cyclin D1-expressed cells at G2 phase of cell cycle in a p53-dependent manner. J Biol Chem. 280(20): 20059-68
31. Bhattacharyya A, **Choudhuri T**, Suman Pal, Chattopadhyay S, Datta GK, Sa G, Das T (2003) Apoptogenic Effects of Black Tea on Ehrlichs Ascites Carcinoma Cell. Carcinogenesis 24(1), 75-80
32. **Choudhuri T**, Pal S, Agwarwal ML, Das T & Sa G. (2002) Curcumin induces apoptosis in human breast cancer cells through p53-dependent Bax induction. FEBS Lett 512: 334-340
33. Pal S, **Choudhuri T**, Chattopadhyay S, Bhattacharya A, Datta GK, Das T and Sa G. (2001) Mechanisms of curcumin-induced apoptosis of Ehrlich's ascites carcinoma cells. Biochem Biophys. Res. Commun. 288, 658-665