Curriculum Vitae

Name: Dr. Damayanti Das Ghosh

Present affiliation:

Scientist (Department of Basic and Translational Research), Saroj Gupta Cancer Centre and Research Institute, Kolkata.

Technical Director (Molecular Diagnostics Lab), Saroj Gupta Cancer Centre and Research Institute, Kolkata.

PhD Supervisor at Dept. of Genetics, University of Calcutta

Guest Lecturer at Post-graduate Genetics Department, University of Calcutta

Education:

Qualification	Board/ Council/ University	Subject(s)	Year
PhD (Sc)	University of Calcutta (Fellow of Indian Statistical Institute)	Biotechnology	2012
M.Sc.	University of Calcutta	Genetics	2005
B.Sc.	University of Calcutta	Zoology (Honours)	2003

PhD:

PhD thesis topic: Influence of some host immunogenetic and viral factors on the pathogenesis of HPV16/18 related cervical cancer

Grant:

Grant name	Project title	Sanction	Duration
Women Scientist (Scheme A) under Department of Science and Technology, Government of India	Study on relationship between Gain-of-Function mutant p53 and stemness as an underlying cause for chemoresistance in ovarian carcinoma	Rs. 35, 31,735/-	2018-2022

Research experience:

- **JRF and SRF** at **Indian Statistical Institute.**
- **Post-doctoral fellow** at Perelman School of Medicine, **University of Pennsylvania**, USA.
- Project Scientist at molecular biology research division of **Saroj Gupta Cancer Centre and Research Institute**
- **Research Associate**, Systems Medicine Cluster (SyMeC) project at Gynaecologic Oncology Division, **Tata Medical Centre**.
- **Research Associate** at the Cancer Biology & Inflammatory Disorder division, **CSIR-Indian Institute of Chemical Biology**, Kolkata, India.

List of Publications:

- Bandopadhyay S, Prasad P, Ray U, **Das Ghosh D**, Roy SS. SIRT6 promotes mitochondrial fission and subsequent cellular invasion in ovarian cancer. FEBS Open Bio. 2022 Jun 10. doi: 10.1002/2211-5463.13452. Epub ahead of print. PMID: 35686673.
- Ghatak D‡, **Das Ghosh D‡**, Roychoudhury S. Cancer Stemness: p53 at the Wheel. ***Front Oncol.*** **2021**;10:604124. Published 2021 Jan 11. doi:10.3389/fonc.2020.604124. **Impact Factor: 5.**66

[‡ equal contribution]

- **Das Ghosh, D.**, Mukhopadhyay, I., Bhattacharya, A., Roy Chowdhury, R., Mandal, N. R., Roy, S. and Sengupta, S. (**2017**), Impact of genetic variations and transcriptional alterations of HLA class I genes on cervical cancer pathogenesis. **Int. J. Cancer**. 40(11):2498-2508. doi:10.1002/ijc.30681 **Impact Factor: 7.36**
- **D. Das,** B. Bhattacharjee, S. Sen, I. Mukhopadhyay, and S. Sengupta. (**2010**). Association of viral load with HPV16 positive cervical cancer pathogenesis: causal relevance in isolates harboring intact viral E2 gene. **Virology** 402:197-202. **Impact Factor: 3.45**
- **D. Das Ghosh,** B. Bhattacharjee, S. Sen, L. Premi, R. Roy Chowdhury, I. Mukhopadhyay, and S. Sengupta. (**2012**). Some novel insights on HPV16 related cervical cancer pathogenesis based on LCR methylation, E7 and E2/E4 expressions and viral load. **PLoS ONE** 7(9): e44678.doi:10.1371/journal.pone.0044678. **Impact Factor: 4.3**
- P. Mandal, B. Bhattacharjee, **D. Das Ghosh**, N. R. Mondal, R. Roy Chowdhury, S. Roy, S. Sengupta. (**2013**). Differential expression of HPV16 L2 gene in cervical cancers harboring episomal HPV16 genomes: influence of synonymous and non-coding region variations. **PLoS ONE** 8(6): e65647. doi:10.1371/journal.pone.00656473. **Impact Factor: 4.06**
- P. Ghosh, **D. Das Ghosh**, A. Mazumdar (Giri), S. Sengupta, C. Das, I. Mukhopadhyay. (**2014**). Polymerase chain reaction and deoxyribonucleic acid-sequencing based study on distribution of human papillomavirus 16/18 among histopatholgical types of cervical intra-epithelial neoplasia and primary invasive cervical carcinoma: A scenario in North Bengal, India. **Journal of Midlife Health** 5(1):14-22

Published abstract of paper presented in International conference/symposium:

- **Das Ghosh D**, Roy Chowdhury R, Roychoudhury S. EPV139/#616 TP53 mutations differentially affect prognosis of endometrial cancer: an in-silico approach. *International Journal of Gynecologic Cancer* **2021**;**31:**A85. **Impact Factor: 3.437**
- **D. Das Ghosh**, I Mukhopadhyay and S. Sengupta. 2012. 3rd International Cancer Research Symposium 2012: Defining and translating Science for disease prevention and therapy, Kolkata, West Bengal, India, December 18-21, **2012**. HLA class I genetic and expressional alterations associated with HPV16 related cervical cancer pathogenesis. **Journal of Cell Communication and Signaling** 7, 63- 102 (2013). doi: 10.1007/s12079-013-0191-9. **Impact Factor: 2.776**
- **D. Das,** B. Bhattacharjee, L. Premi, S. Sengupta. 2010. 26th International Papillomavirus Conference & Clinical and Public Health Workshops. Palais des Congrès de Montréal, Canada, July 3-8, **2010**. High viral load and E7 expression among CaCx cases harboring intact E2: some novel insights on disease pathogenesis. **DST – Brazilian Journal of Sexually Transmitted Diseases** 22(2): 84-106

Awards:

- **Third prize** in **e-Poster** presentation at the "1st Virtual Global Cancer Conference" conducted by Global Cancer Consortium formed by Mayo Clinic, USA, Manipal Academy of Higher Education, India, Tata Memorial Centre, Mumbai, India, University of Kentucky, USA, and Saroj Gupta Cancer Centre and Research Institute, Kolkata, India (December 2nd to 4th, 2021)
- Received **"Best Poster Award from an Emerging Country Participant"** in Basic Science and **Travel Award** from **International** Papillomavirus Society (IPVS), in the 26th **International** Papillomavirus Conference, organized by IPVS, at Montreal, Canada (July 3-8, 2010).
- Awarded **1st prize** from the hands of Nobel laureate **Dr. Harald zur Hausen**, at the poster presentation in the "Symposium on Cervical Cancer Control in India" organized by Cancer Foundation of India (CFI), Kolkata, India (December 4, 2009).
- **Young scientist award** (First Prize) in the Biennial Conference (Interim) of **Asia Oceania** Research Organization on Genital Infection and Neoplasia (AOGIN) hosted by Chittaranjan National Cancer Institute, Kolkata, India and AOGIN, India (April 25-26, 2009).

- **Young investigator award** (First Prize) in the "**International** symposium on Human Papillomavirus-associated cancers: translating research into cancer prevention and medicine" organized by Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala, India (November 1-3, 2008).
- **Best Poster Award** in the XXXIII Annual Conference of the Indian Society of Human Genetics and International Symposium on "Genetics Revisited: the Genomics and Proteomics Advantage" organized by Andhra University, Visakhapatnam, Andhra Pradesh, India (February 11-13, 2008).
- Awarded **third prize** in the S.N. Mitra Memorial Essay Competition organized by **The Royal Society of Chemistry**, Eastern India Section (July 17, 1999).

Research interest: **genetics, cell & molecular biology of Gynecological Cancers with the following focus areas:**

- Development of **organoid model** of gynae cancers
- Effect of **molecular classification** in endometrial cancer: deciphering underlying molecular mechanisms
- Effect of **Gain-of-Function mutant p53 on stemness, DNA repair** and chemoresistance in ovarian cancer
- search of prognostic cues for epithelial ovarian cancer from **liquid biopsy** based cell-free DNA, circulating tumor cells and T cell receptors
- Development of isogenic ovarian cancer cell lines with different TP53 hot-spot mutations to test differences in drug response