



Brief CV

Name: **SUSANTA ROYCHOUDHURY, PhD, FNA, FASc, FNASc, FASc&T**
Jagadish Chandra Bose National Fellow

Designation: **Chief, Basic Research**
Saroj Gupta Cancer Centre and Research Institute, Kolkata

Address: SAROJ GUPTA CANCER CENTRE AND RESEARCH INSTITUTE
Mahatma Gandhi Road, Thakurpukur, Calcutta - 700063, INDIA

Positions:

- Chief, Basic Research (2015-cont.)
Saroj Gupta Cancer Centre and Research Institute, Kolkata
- Former Chief Scientist (1991-2015)
CSIR-Indian Institute of Chemical Biology, Kolkata
- Former Professor (2012-2015)
Academy of Scientific and Innovative Research

Education:

Ph.D. (Biochemistry)	University of Calcutta 1985
M.Sc. (Biochemistry)	University of Calcutta 1977
B.Sc. (Chemistry, Hons)	University of Calcutta 1975

Honors:

- Fellow, Indian National Science Academy
- Fellow, Indian Academy of Sciences
- Fellow, National Academy of Science, India
- Fellow, West Bengal Academy of Science and Technology
- Jagadish Chandra Bose National Fellow, DST, Govt. of India
- President, Indian Association for Cancer Research (2016-2019)
- Member, Guha Research Conference (GRC)

Major research interests:

- Cancer Genetics and Genomics
- Cancer Cell Biology

Publications:

Original paper:	155
Reviews, Monographs, Book Chapters:	19
Patent & copyright:	02

Manpower development:	PhD thesis supervised	23
	Current PhD student	01

Research contributions: Prof. Susanta Roychoudhury has vast experience in basic cancer research. Currently he is engaged in clinical cancer research. As a cancer geneticist, he contributed significantly in the molecular understanding of the genomic instabilities and functional consequences p53 mutations in human cancer. He has developed a microarray-based gene expression signature that distinguishes the aggressive subset of early stage oral cancer from non-aggressive one. Currently he is also developing plasma cell free DNA based diagnostic assays in ovarian cancer. He is also developing 3D organoid cell culture model from primary ovarian tumor tissues.

List of selected papers published in last 10 years in SCI journals (As corresponding author only):

1. Nath S., et al, Spindle assembly checkpoint protein Cdc20 transcriptionally activates expression of ubiquitin carrier protein UbcH10, **J. Biol. Chem. 286: 15666-15677 (2011)**
2. Nath S et al, Is Germline transmission of MAD2 gene deletion associated with human foetal loss? **Mol Hum Reprod. 18: 554-562 (2012)**
3. Bhattacharjya S. et al, miR-125b promotes cell death by targeting Spindle Assembly Checkpoint gene MAD1 and modulating mitotic progression. **Cell Death & Differentiation 20: 430-442 (2013)**
4. Nath S. et al, Deregulation of Rb-E2F1 axis causes chromosomal instability by engaging the transactivation function of Cdc20-APC/C complex. **Mol. Cell Biol. 35: 356-369 (2015)**
5. Bhattacharjya S. et al, Inhibition of nucleoporin member Nup214 expression by miR-133b perturbs mitotic timing and leads to cell death. **Mol Cancer 14:42 (2015)**
6. Ghuwalewala S. et al, CD44^{high}CD24^{low} molecular signature determines the Cancer Stem Cell and EMT phenotype in Oral Squamous Cell Carcinoma. **Stem Cell Res. 16:405-417 (2016)**
7. Alam S K, et al, DNA damage-induced ephrin-B2 reverse signaling promotes chemoresistance and drives EMT in colorectal carcinoma harboring mutant p53. **Cell Death & Differentiation. 23:707-722 (2016)**

8. Datta A. et al, Transcriptome profiling identifies genes and pathways deregulated upon Floxuridine treatment in colorectal cancer cells harboring GOF mutant p53. **Genom Data 8:47-51. (2016)**
9. Bajaj S. et al, E2-ubiquitin Conjugating Enzyme, UBE2C, is Reciprocally Regulated by Wild-type and Gain-of-function Mutant p53. **J Biol Chem. 291:14231-14247 (2016).**
10. Roychowdhury A. et al, Integrative genomic and network analysis identified novel genes associated with the development of advanced cervical squamous cell carcinoma. **BiochimBiophys Acta. 1861(1 Pt A):2899-2911 (2017)**
11. Datta A. et al, p53 gain-of-function mutations increase Cdc7-dependent replication initiation, **EMBO Rep 18:2030-2050 (2017)**
12. Datta, A. et al, Genome-Wide Small RNA Sequencing Identifies MicroRNAs Deregulated in Non-Small Cell Lung Carcinoma Harboring Gain-of-Function Mutant p53. **Genes 10: 852 (2019)**

Research Support (present):

- Delineating a novel transcriptional regulatory role of APC/CCdc20 complex and its impact on chromosomal instability in oral cancer
Funding agency: SERB, DST
- J C Bose Fellowship
Funding agency: SERB, DST