

SUBRATABANERJEE
Former Professor-H & HOD
Biophysics & Structural Genomics Division,
Saha Institute of Nuclear Physics, Kolkata

Education:

Ph.D.(Sc.), University of Calcutta, 1991;
Post M.Sc. (Bioscience), Saha Institute of Nuclear Physics (SINP), Kolkata, 1984;
M.Sc. (Physics), University of Calcutta, 1982;
B.Sc. (Physics), Presidency College, University of Calcutta, 1980;

Academic Profile:

1991---1997: Post Doctoral/Research Associate, Lineberger Cancer Centre, UNC at Chapel Hill, NC, USA;
1997---2001: Reader-'D', Biophysics Division, SINP;
2001---2005: Assoc. Prof.-'E', Biophysics Division, SINP;
2005---2010: Prof.-'F', Structural Genomics (SG) Section, SINP;
2010---2016: Prof.-'G': Biophysics & Structural Genomics (B&SG) Division, SINP;
2016--- 2019: Prof.-'H': Biophysics & Structural Genomics (B&SG) Division, SINP;

Honors/Award:

Fanconi's Anemia Inc. (USA) Post Doctoral Fellowship, 1992---1995;
Leukemia Society of America (LSA) Research Associate, 1995---1997;
SINP Foundation Day Lecture Award, Best Publication, 2010;

Research:

Main area of interest is to understand the crosstalk between proliferation and differentiation in haemopoiesis and carcinogenesis - the role of cellular metabolism, mitochondrial dynamics, cytoskeletal signalling in cellular migration, immune evasion and aberrant differentiation – the hallmarks of cancer and to design appropriate vectors for gene and stem cell therapy of haematological disorders.

Number of students supervised for Ph. D. (Sc.): 11 (CU, JU & HBNI);
Number of Postdocs (DBT / CSIR) supervised: 2;

Other Academic / Teaching Duties:

Been an Honorary Post Graduate Professor/ Examiner in Departments of Biotechnology, Microbiology, Neurobiology, Genetics, Calcutta University (CU), Jadavpur University (JU) and Formerly West Bengal University of Technology (WBUT);(Subject: Gene and Stem Cell therapy & Medical Biotechnology);
Served as a Member, Board of Studies, Department of Biotechnology, Kalyani University;
Served as a Member Ph.D. Committee, Department of Biophysics, University of Calcutta;

Project Coordinator:

DAE-SINP Intramural : SPGHD Project 2007-2012; IBOP Project 20112-2017;
CSIR Extramural Project: 2002-2005;

Served as Reviewer for various journals - *Blood, Leukemia, Leuk. Res., J. Biol. Chem., J Cell Physiol., Virology* etc.;

Served as Reviewer for various National & International Research Grants - A*Star, Singapore Univ., SERB---DST, DBT, CSIR , ICMR etc.;

Administrative Duties

Served as Head of Division: SG Section & B&SG Division, SINP: 2007-2019;

Served as Member Faculty Selection & Promotion Committee, SINP;

Served as External Expert Member Selection & Promotion Committee of CU, JU, KU;

Served as Member for Promotion Committee: Bose Institute Kolkata, NICED Kolkata;

Publications: More than 35 publications, H-index 15; Avg JIF>4.2

(2012 - 2015):

1. Pal, A.D. and Banerjee S. Epstein Barr Virus Latent Membrane Protein 2A mediated activation of Sonic Hedgehog pathway induces HLA Class Ia downregulation in Gastric Cancer cells (2015) *Virology* **484** 22 34
2. Basak, N.P. and Banerjee S. Mitochondrial dependency in progression of Acute Myeloid Leukemia (2015) *Mitochondrion* **21**(3) 41
3. Roy, A and Banerjee S. p27 & Leukemia: Cell cycle and beyond (2015). *J. Cell Physiol.* **230**(3)504
4. Haldar, S., Roy, A., Banerjee S. Differential regulation of MCM7 and its intronic miRNA cluster miR-19-106b-25 during megakaryopoiesis induced polyploidy (2014) *RNA Biology* **11**(9) 1137
5. Pal, A.D., Basak, N.P., Banerjee, A.S., Banerjee, S. Epstein Barr Virus Latent Membrane Protein-2A alters mitochondrial dynamics promoting cellular migration mediated by Notch signaling pathway (2014) *Carcinogenesis* **35**(7) 1592;
6. Basak, N.P., Roy, A., Banerjee, S. Alteration of Mitochondrial Proteome due to Activation of Notch 1 Signaling Pathway (2014) *Journal of Biological Chemistry* **289**(11)7320
7. Roy, A., Haldar, S., Basak, N.P., Banerjee, S. Molecular cross talk between Notch1, Shh and Akt pathways during erythroid differentiation of K562 and HEL cell lines (2014) *Experimental Cell Research* **320**(1) 69.
8. Saha, S., Banerjee, S., Banerjee, D., Chandra, S., Chakrabarti, A. 2DGE and DIGE based proteomic study of malignant B --cells in B---cell acute lymphoblastic leukemia (2014) *EuPA Open Proteomics* **3**(6)13
9. Roy, A., Lahiry, L., Banerjee, D., Ghosh, M., Banerjee, S. Increased Cytoplasmic Localization of p27kip1 and Its Modulation of RhoA Activity during Progression of Chronic Myeloid Leukemia (2013) *PLoS ONE* **8**(10)
10. Banerjee, A.S., Pal, A.D., Banerjee, S. Epstein-Barr virus-encoded small non-coding RNAs induce cancer cell chemoresistance and migration (2013) *Virology* **443**(2) 294.
11. Roy, A., Basak, N.P., Banerjee, S. Notch1 intracellular domain increases cytoplasmic EZH2 levels during early megakaryopoiesis (2012) *Cell Death and Disease* **3**(8).