Dr. Avik Biswas, Ph. D.

Senior Scientific Officer (Grade II)

2018: Senior Scientific Officer (Grade II), Department of Signal Transduction and Biogenic Amines, Chittaranjan National Cancer Institute, Kolkata, India.

2014- 2017: Research Associate, The Scripps Research Institute (TSRI), Florida, USA.

2013-2014: Post-Doctoral Fellow, Tulane University, Louisiana, USA.

2013: Ph.D. (Biotechnology), University of Calcutta (ICMR Virus Unit, Kolkata, India).

2005: M.Sc. (Biotechnology), University of Burdwan.

2003: B.Sc. (Microbiology), University of Calcutta.

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Research Interest

My research interests focus on investigating the complex role of protein-protein and protein-RNA interactions during viral as well as non-viral cancer development and progression. Additionally, I am interested to identify and characterize the key interactions related to signaling pathways promoting growth and cell cycle regulations in cancer. The long term goal is to block the relevant interactions by developing different anti-cancerous therapeutic regimens.

Join our research group

Students with strong work ethics, self-motivation (with their own fellowships) are welcome to join my research group for pursuing PhD. Interested candidates may contact directly at avik.b29@gmail.com along with CV and a brief statement of their research interests.

List of Selected Publications:

1. Childs-Disney JL, Tran T, Vummidi BR, Velagapudi SP, Haniff HS, Matsumoto Y, Crynen G, Southern MR, **Biswas A**, Wang ZF, Tellinghuisen TL, Disney MD. A Massively Parallel Selection of Small Molecule-RNA Motif Binding Partners Informs Design of an Antiviral from Sequence. ***Chem*** 2018; 4 (10), 2384-2404.
2. **Biswas A**, Treadaway J, Tellinghuisen TL. Interaction between Nonstructural Proteins NS4B and NS5A Is Essential for Proper NS5A Localization and Hepatitis C Virus RNA Replication***. J Virol*** 2016; 90(16):7205-18.

3. **Biswas A**, Panigrahi R, Pal M, Chakraborty S, Bhattacharya P, Chakrabarti S, Chakravarty R. Shift in the hepatitis B virus genotype distribution in the last decade among the HBV carriers from Eastern India: possible effects on the disease status and HBV epidemiology. ***J Med Virol*** 2013; 85(8):1340-1347.
4. **Biswas A,** Panigrahi R, Banerjee A, Pal M, De BK, Chakrabarti S, Chakravarty R. Differential pattern of pre-S mutations/deletions and its association with hepatitis B virus genotypes in Eastern India. ***Infect Genet Evol*** 2012; 12: 384-391.
5. Chandra PK, **Biswas A**, Datta S, Banerjee A, Panigrahi R, Chakrabarti S, De BK, Chakravarty R. Subgenotypes of hepatitis B virus genotype D (D1, D2, D3 and D5) in India: differential pattern of mutations, liver injury and occult HBV infection. ***J Viral Hepat*** 2009; 16(10): 749-756.
6. **Biswas A**, Chandra PK, Datta S, Panigrahi R, Banerjee A, Chakrabarti S, Biswas K, Patra D, Bhattacharya P, Biswas K, Chakravarty R.; Frequency and distribution of hepatitis B virus genotypes among eastern Indian voluntary blood donors: Association with precore and basal core promoter mutations. ***Hepatol Res*** 2009; (1): 53-59.