

**Name:** Dr. Rajiv Kumar Mondal  
**Designation:** Assistant Professor  
**Branch:** Molecular Biology



**Educational Qualification(s):**

Qualification(s)	University
B.Sc. (Hons)	University of Calcutta, India
M.Sc.	University of Calcutta, India
Ph.D.	The West Bengal University of Health Sciences, India

**Experience in years:**

Academic: 6 years

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	The ICFAI University, Tripura	Assistant Professor	2023	
2	National Institute of Biomedical Genomics, Kalyani, West Bengal, India	Project Scientist-III	2023	2023
3	National Institute of Biomedical Genomics, Kalyani, West Bengal, India	DBT Research Associate	2020	2022
4	University of Maryland, Baltimore, USA	Post-Doctoral Fellow	2016	2019

**Other Information:**

**a) Publication details:**

**First Author Publications:**

1. Singh AK<sup>#</sup>, Laskar R<sup>#</sup>, Banerjee A<sup>#</sup>, **Mondal RK<sup>#</sup>**, Gupta B, Deb S, Dutta S, Patra S, Ghosh T, Sarkar S, Ghosh S, Bhattacharya S, Roy D, Chakraborty A, Chowdhury M, Mahapatra S, Paul A, Mazumder A, Chowdhury A, Chatterjee SS, Sarkar A, Ray R, Pal K, Jana A, Barik G, Ganguly S, Chatterjee M, Majhi D, Bandopadhyay B, Das S, Maitra A, and Biswas NK. Contrasting distribution of SARS-CoV-2 lineages across multiple rounds of pandemic waves in West Bengal, the gateway of East and North-East states of India. **MicrobiolSpectr** **2022**; 10(4); e00914-22. doi: 10.1128/spectrum.00914-22. **Impact Factor: 3.7.** <sup>#</sup>**Equal contribution**
2. **Mondal RK**, Khatun M, Banerjee P, Ghosh A, Sarkar S, Santra A, Das K, Chowdhury A, Banerjee S and Datta S. Synergistic impact of mutations in Hepatitis B Virus genome contribute to its occult phenotype in chronic Hepatitis C Virus carriers. **Sci Rep** **2017**; 7: 9653. doi: 10.1038/s41598-017-09965-w. **Impact Factor: 4.6**
3. **Mondal RK**, Khatun M, Ghosh S, Banerjee P, Datta S, Sarkar S, Saha B, Santra A, Banerjee S, Chowdhury A, Datta S. Immune-driven adaptation of hepatitis B virus genotype D involves preferential alteration in B-cell epitopes and replicative attenuation-an insight from human immunodeficiency virus/hepatitis B virus coinfection. **Clin Microbiol Infect** **2015**; 21: 710.e11–20. doi: 10.1016/j.cmi.2015.03.004. **Impact Factor: 14.2**

**Co-author Publications:**

1. Baidya A, Khatun M, **Mondal RK**, Ghosh S, Chakraborty BC, Mallik S, Ahammed SK, Chowdhury A, Banerjee S, and Datta S. Hepatitis B virus suppresses complement C9 synthesis by limiting the availability of transcription factor USF-1 and inhibits formation of

- membrane attack complex: implications in disease pathogenesis. **J Biomed Sci** 2022; 29(1): 1-19. doi: 10.1186/s12929-022-00876-1. **Impact Factor: 11**
2. Khatun M, Kumar K, Baidya A, **Mondal RK**, Baszczynski O, Kalčić F, Banerjee S, Dhali GK, Das K, Chowdhury A, Janeba Z, Chakrabarti S, Datta S. Variability in the response of HBV D-subgenotypes to antiviral therapy: designing pan D-subgenotypic reverse transcriptase inhibitors. **J Virol** 2022; 96(2): e0180021. doi: 10.1128/JVI.01800-21. **Impact Factor: 5.4**
  3. Maitra A, Sarkar MC, Raheja H, Biswas NK, Chakraborti S, Singh AK, Ghosh S, Sarkar S, Patra S, **Mondal RK**, Ghosh T, Chatterjee A, Banu H, Majumdar A, Chinnaswamy S, Srinivasan N, Dutta S & Das S. Mutations in SARS-CoV-2 viral RNA identified in Eastern India: Possible implications for the ongoing outbreak in India and impact on viral structure and host susceptibility. **J Biosci** 2020; 45(1), 76. doi: 10.1007/s12038-020-00046-1. **Impact Factor: 2.9**
  4. Ghosh A, **Mondal RK**, Romani S, Baghchee S, Cairo C, Pauza CD, Kottlil S and Poonia B. Persistent Gamma Delta-T cell Dysfunction in Chronic HCV Infection Despite Direct Acting Antiviral Therapy Induced Cure. **J Viral Hepat** 2019; 26(9): 1105-1116. doi: 10.1111/jvh.13121. **Impact Factor: 2.5**
  5. Khatun M, **Mondal RK**, Pal S, Baidya A, Bishnu D, Banerjee P, Santra A, Dhali GK, Banerjee S, Chowdhury A and Datta S. Distinctiveness in virological features and pathogenic potentials of subgenotypes D1, D2, D3 and D5 of Hepatitis B virus. **Sci Rep** 2018; 8: 8055. doi: 10.1038/s41598-018-26414-4. **Impact Factor: 4.6**
  6. Banerjee P, Chakraborty A, **Mondal RK**, Khatun M, Datta S, Das K, Pandit P, Mukherjee S, Banerjee S, Ghosh S, Chakrabarti S, Chowdhury A, Datta S. HBV quasispecies composition in Lamivudine-failed chronic hepatitis B patients and its influence on virological response to Tenofovir-based rescue therapy. **Sci Rep** 2017; 7: 44742. doi: 10.1038/srep44742. **Impact Factor: 4.6**
  7. Ghosh S, Nandi M, Pal S, Mukhopadhyay D, Chakraborty BC, Khatun M, Bhowmick D, **Mondal RK**, Das S, Das K, Ghosh R, Banerjee S, Santra A, Chatterjee M, Chowdhury A, Datta S. Natural killer cells contribute to hepatic injury and help in viral persistence during progression of hepatitis B e-antigen-negative chronic hepatitis B virus infection. **Clin Microbiol Infect** 2016; 22: 733.e9-733.e19. doi: 10.1016/j.cmi.2016.05.009. **Impact Factor: 14.2**
  8. Banerjee P, **Mondal RK**, Nandi M, Ghosh S, Khatun M, Chakraborty N, Bhattacharya S, RoyChoudhury A, Banerjee S, Santra A, Sil S, Chowdhury A, Bhaumik P, Datta S. A rare HBV subgenotype D4 with unique genomic signatures identified in North- Eastern India-an emerging clinical challenge? **PLOS ONE** 2014; 9(10): e109425. doi: 10.1371/journal.pone.0109425. **Impact Factor: 3.7**
  9. Ghosh S, Banerjee P, Deny P, **Mondal RK**, Nandi M, RoyChoudhury A, Das K, Banerjee S, Santra A, Zoulim F, Chowdhury A, Datta S. New HBV subgenotype D9, a novel D/C recombinant, identified in patients with chronic HBeAg-negative infection in Eastern India. **J Viral Hepat** 2013; 20: 209-18. doi: 10.1111/j.1365-2893.2012.01655.x. **Impact Factor: 2.5**
  10. Ghosh S, **Mondal RK**, Banerjee P, Nandi M, Sarkar S, Das K, Santra A, Banerjee S, Chowdhury A, Datta S. Tracking the naturally occurring mutations across the full-length genome of Hepatitis B virus of genotype D in different phases of chronic e-antigen-negative infection. **Clin Microbiol Infect** 2012; 18: E412-8. doi: 10.1111/j.1469- 0691.2012.03975.x. **Impact Factor: 14.2**

**(b) Details of Seminar/Workshop/Conference:**

International:

- R. K. Mondal, M. Khatun, S. Sarkar, P. Banerjee, P. Pandit, A. Santra, S. Banerjee, A. Chowdhury, S. Datta. Synergistic effects of mutations in different coding and transcriptional regulatory regions of Hepatitis B Virus (HBV) of genotype D contribute to its occult phenotype-an insight from chronic hepatitis C patients with occult HBV infection. 2015 International Meeting on the Molecular Biology of Hepatitis B Viruses, Bad Nauheim, Germany from October 4-8, 2015. Abstract Book, O-84. (Awarded an Oral Presentation)
- R. K. Mondal, S. Ghosh, P. Banerjee, M. Nandi, S. Datta, P. Pandit, K. Das, B. Saha, P. Bhaumik, A. Santra, S. Banerjee, A. Chowdhury and S. Datta. Differences in Hepatitis B virus (HBV) genetic variation and cytokine profile in HBV-monoinfected and HIV-HBV co-infected Indian patients. 2012 International Meeting on Molecular Biology of Hepatitis B Viruses, University of Oxford, Christ Church & Examination Schools, Oxford, UK from September 22-25, 2012. Abstract Book, P-107. (Best Poster in Session Award)

National:

- R. K. Mondal, M. Khatun, P. Banerjee, A. Ghosh, S. Sarkar, A. Santra, K. Das, A. Chowdhury, S. Banerjee and S. Datta. Mutations in coding and regulatory regions of HBV synergistically contribute to its occult phenotype in chronic HCV carriers. Symposium on 'Biology and Molecular Pathogenesis of Viruses', 2016, Indian Institute of Science, Bangalore, India, June 20-21, 2016.
- R. K. Mondal, M. Khatun, S. Ghosh, P. Banerjee, S. Datta, S. Sarkar, B. Saha, A. Santra, S. Banerjee, A. Chowdhury, and S. Datta. Immune-driven adaptation of HBV genotype D involves preferential alteration in B-cell epitopes and replicative attenuation- an insight from HIV-HBV co-infection. 23rd Annual Conference of INASL – CPLD, New Delhi, India. July 31 – August 02, 2015.
- R.K. Mondal, S.Ghosh, P. Banerjee, M. Nandi, S. Datta, P. Pandit, K. Das, B. Saha, P. Bhaumik, S. Sil, A. Santra, S. Banerjee, A. Chowdhury, S. Datta. Distinct HBV genetic structure and cytokine profile in HBV-monoinfected and HBV-HIV co-infected Indian patients. 81st Annual Meeting of The Society of Biological Chemists (India) and Symposium on Chemistry and Biology: Two Weapons Against Diseases.2012. Kolkata. page-266, PP: VIR05.

**(c) Awards:**

International:

1. Awarded an ORAL presentation in 2015 International Meeting on the Molecular Biology of Hepatitis B Viruses, Bad Nauheim, Germany from October 4-8, 2015
2. Awarded Best Poster in Session award in 2012 International Meeting on Molecular Biology of Hepatitis B Viruses, University of Oxford, Christ Church & Examination Schools, Oxford, UK from September 22-25, 2012

National:

1. Awarded DBT-Research Associateship from Department of Biotechnology, GOI, New Delhi in the year 2020
2. Awarded International Travel Grant from Indian Council of Medical Research (ICMR) for attending "2015 International Meeting on Molecular Biology of Hepatitis B Viruses" from 04/10/15 to 08/10/15 in Germany
3. Awarded International Travel Fellowship from Centre for International Co-operation in Science (CICS) for attending "2015 International Meeting on Molecular Biology of Hepatitis B Viruses" from 04/10/15 to 08/10/15 in Germany
4. Awarded International Travel Grant from Department of Science & Technology (DST) under International Travel Support (ITS) Scheme for attending "2015 International Meeting on Molecular Biology of Hepatitis B Viruses" from 04/10/15 to 08/10/15 in Germany
5. Awarded International Travel Grant from Department of Science & Technology (DST) under International Travel Support (ITS) Scheme for attending "2012 International Meeting on Molecular Biology of Hepatitis B Viruses" from 22/09/12 to 25/09/12 in UK
6. Awarded for Lectureship (LS) in Joint CSIR-UGC National Eligibility Test (NET) held on 17th June, 2007. F. No. 10-2(5)/2007 (i) - E.U.II, Dated: 01/12/2007