NAME	Dr. Dibyakanti Mandal		
DESIGNATION	Assistant Professor III	122	
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CONTACT NUMBER	8584000652		
RESEARCH INTERESTS	Virology/Infectious Diseases/Ge	Virology/Infectious Diseases/Gene Therapy	

**EDUCATIONAL QUALIFICATIONS:** 

EB CONTION IN CONTIONS.				
Name of College / University	Degree	Year		
Calcutta University	B.Sc. (Chemistry Hons)	1993		
Calcutta University	M.Sc. (Biochemistry)	1995		
Calcutta University	Ph.D. (Biochemistry)	2003		

## Title of Ph.D. thesis: Genomic Characterization of Human Immunodeficiency virus Type-1 Circulating in Eastern and Northeastern Regions of India

Designation	Type of post held	Name of the Institute	Year (From – To)
Doignation	(teaching/ research)	Traine of the Institute	Tour (From 10)
Associate			
Professor	Teaching/Research	PDM University	2021-2022
Assistant Professor	Teaching/Research	PDM University	2019-2021
Sr. Program Officer	Research/Administrati on	INCLEN Trust International	2017-2018
Sr. Program Officer	Research	THSTI	2016-2017
Scientist B	Research	AIIMS, New Delhi	2015-2016
Research Scientist	Research	University of Iowa, USA	2011-2013
Postdoctoral Scientist	Research	University of Iowa, USA	2006-2011
Postdoctoral Scientist	Research	Albert Einstein College of Medicine, NY, USA	2002-2006
lo. of Ph.D. st	udents supervised		
lo. of Post-Do	c		
lo. of M.Tech	Students supervised:		
	<b>Students supervised:</b>		
PUBLICATIONS (mention total no. here): 19		<ul> <li>Apita Adhikari , Dibyakanti Mandal , Jyotishka Nath ,Sriparna De , Dipak Rana, Dipankar Chattopadhyay June 2022. COVID-19 mitigation: Nanotechnologica intervention, perspective, and future scope. (Accepted in Materials Advances; Royal Society of Chemistry).</li> <li>Dibyakanti Mandal*, D. Pandey, Debi P Sarkar and Manish Kumar. 2022. Remdesivir, Zidovudine (AZT and Nevirapine inhibit Chandipura virus through high energy interactions with the RdRp domain of the</li> </ul>	

polymerase

protein

- BioRvix.doi: <a href="https://doi.org/10.1101/2022.03.02.48269">https://doi.org/10.1101/2022.03.02.48269</a>
  <a href="mailto:8.6">8.</a> (as Corresponding author).
- **Dibyakanti Mandal\***, Desai D, Sinha S. **2021.** High prevalence of plasma EBV among the HIV positive individuals, with or without malignancies, attending the clinic at AIIMS, New Delhi. (Accepted in VirusDisease; \*corresponding author).
- \*Dibyakanti Mandal. 2020. Coronavirus threat to Indian population: risk factors, transmission dynamics and preparedness to prevent the spread of the virus. VirusDiseases. April 20; 1-4.
- **Dibyakanti Mandal\***. 2019. Association of vitamin D and VDR in leprosy disease progression: implication of new strategies for treatment and clinical management (\*As corresponding author, Invited book chapter in *'Leprosy: from diagnosis to treatment'*, Nova Publisher, New York, USA).
- Sinha S, Agarwal A, Gupta K, **Mandal D**, Jain M, Detels R, Nandy K, DeVos
  MA, Sharma SK, Manoharan N, Julka PK, Rath GK<sup>1</sup> Ambinder RF, Mitsuyasu RT. **2018.** Prevalence of HIV in patients with malignancy and of malignancy in HIV patients in a tertiary care center from North India. *Curr HIV Res.* 2018 Oct 18.
  - Sinha S, Gupta K, Nawaid Khan, Mandal D, et al.
     2018. Higher frequency of HIV-1 drug resistance and increased NRTI mutations among the HIV-1 positive ART naive individuals co-infected with Mycobacterium Tuberculosis compared to only HIV infection in India. Infectious Disease: Research and Treatment.
  - Sinha S, Gupta K, Mandal D, Das BK, Pandey RM.
     2018. Serum and Bronchoalveolar Lavage Fluid 25(OH) Vitamin D3 Levels in HIV-1 and Tuberculosis: A Cross-Sectional Study from a Tertiary Care Center in North India.

Curr HIV Res. 27.

- Mandal D\*, Reja AH, Biswas N, Bhattacharya P, Patra P, Bhattacharya B. 2015.
  - Vitamin D receptor expression levels determine the severity and complexity of
  - disease progression among leprosy reaction patients. *New Microbes and New*
  - *Infections.* July, Vol 6: 35-39. (\* As corresponding author).
- Mandal D, Feng Z, Stoltzfus CM. 2010. Excessive Human Immunodeficiency Virus Type-1 RNA splicing and inhibition of virus replication induced by modified U1 snRNAs *Journal of Virology*: December 2010, Vol. 84, No. 24, p. 12790-12800.
- Mandal D, Exline C, Feng Z and Stoltzfus CM.
   2009. Regulation of vif mRNA splicing by human

immunodeficiency virus type 1 requires 5' splice site D2 and an exonic splicing enhancer to counteract cellular restriction factor APOBEC3G. Journal of Virology. Jun. 83(12): 6067-78. Mandal, D, Feng Z and Stoltzfus CM. 2008. Gag-Processing defect of human immunodeficiency virus type 1 integrase E246 and G247 mutants is caused by activation of an overlapping 5' splice site. Journal of Virology. Feb. 82(3): 1600-1604. Mandal D, Das C, Le Grice S, Prasad VR. 2006. Analysis of HIV-1 replication block due to substitutions at F61 residue of reverse transcriptase reveals additional defects involving the RNase H function. Nucleic Acids Research. 34 (10): 2853-2863. Bhattacharya B, Karak K, Ghosal A, Roy A, Das S, Dandapat P, Khetawat D, Mandal D, Bhattacharya S and Chakrabarti S. 2003. Development of a new sensitive and efficient multiplex polymerase chain reaction (PCR) for identification and differentiation of different mycobacterial species. Trop Med Int *Health.* Feb; 8(2):150-7. Bhanja P, Mandal D, Jana S, Bhattacharya SK and Chakrabarti S. 2004. Detection and characterization of HIV type 2 in Calcutta, India. AIDS Res Hum Retroviruses. Jan; 20(1):101-4. Mandal D, Jana S, Bhattacharya S, Bhattacharya SK and Chakrabarti S. 2002. HIV-1 type-1 subtypes circulating in eastern and north-eastern regions of India. AIDS Res Hum Retroviruses. Nov; 18(16):1219-27. Saha S, Mandal D, Khetawat D, Roy A, Chakrabarti S and Bhattacharya B. molecular approach (multiplex polymerase chain reaction) for diagnosis of rhinosporidiosis.. *Indian* Journal of Otolaryngology and Head & Neck Surgery. Oct; 54 (4): 264-67. Mandal D, Jana S, Panda S, Bhattacharya S, Ghosh TC, Bhattacharya SK and Chakrabarti S. 2000. Distribution of HIV-1 subtypes in female sex workers of Calcutta, India. Ind. J. Med. Res. 112: 165 -172. Mandal D and Prasad VR. 2009. Analysis of 2-LTR circle junctions of viral DNA in infected cell. Methods in Molecular Biology. 485: 73-85. PATENTS (total no.) Details: Details: RESEARCH PROJECTS 1. Effects of unspliced RNA levels in HIV-1 Gag Assembly Completed: (total no.): 2

Ongoing: (total no.)

2. Immune Response against HIV-1 subtype C envelope Proteins

expressed by recombinant vaccinia virus

AWARDS & HONOURS/ DISTINCTIONS	1996: Junior research fellowship awarded by Department of Biotechnology, Govt. of India. 2001: Senior research fellowship awarded by Council of Scientific and Industrial research (CSIR), India. 2001: UNESCO-IUMS-MIRSENS-SGM international fellowship (UNESCO). From 2008: Levitt center pilot grant obtained from University of Iowa, Project title: 'Effects of unspliced RNA levels on HIV-1 Gag assembly'. 2020: Editorial Board member, International Journal of Infectious Diseases and Therapy (Science publishing group). 2020: Invited Reviewer, VirusDiseases (Springer). 2022: Awrded ECCMID outreach grant (Travel award) for 2022 meeting at Lisbon, Portugal 2022: Reviewer Board Member, Archieves of Advanced Biomedical Research, Infact Publications, USA 2022: Reviewer Board Member, Annals of Pharmacology, Infact publications, USA
MEMBERSHIP with Professional/ Academic bodies	Details: Former member, New York Academy of Sciences, New York, USA