



## Mr Nischay Mishra

Professor, Epidemiology (In the Center for Infection and Immunity) at the Columbia University Medical Center, United States of America

Nischay Mishra is an assistant professor, virologist, and infectious disease expert with over 17 years of experience. During his PhD at the National Institute of Virology, Pune in India, he was trained on several outbreaks and epidemics including avian flu and swine flu pandemic.

In particular, Mishra contributed to the development of sequencing platforms VirCapSeq-VERT and BacCapSeq, first highly multiplexed serological array (SeroChip). Mr Mishra also built arboviral peptide array and a TBD-SeroChip for tick borne diseases. He has also demonstrated role of EV-D68 in acute flaccid myelitis in children using peptide array approach.

MR Mishra obtained emergency user authorization from the U.S. FDA for CII-ArboViroPlex qPCR assay (pentaplex assay) for simultaneous invitro diagnosis of Zika virus, dengue viruses, chikungunya virus, West Nile virus and recently for SARS-CoV-2 ; Triplex SARS-CoV-2 rRT PCR assay for in-vitro diagnostic of SARS-CoV-2 RNA. Using peptide array tool, Mishra discovered linear discriminatory epitopes for SARS-CoV-2, which are being adapted for point of care test for testing exposure and immunity. He discovered many new viruses including New Jersey Polyomavirus, Tilapia lake virus, MERS CoV in bats.

