

## National Institute of Biologicals



1. Name of the Employee : **Dr. Manoj Kumar**
2. Email id : **mkrajput@nib.gov.in**
3. Designation : **Scientist Grade-III**
4. Division/LAB : **Blood Product**
5. Educational Qualification : **M.Sc. (Biotechnology),  
Ph.D. (Molecular Biology, J.N.U. New  
Delhi), CSIR-JRF-NET, ICMR-JRF &  
GATE qualified**
6. Year of Joining : **2007**
7. Professional Experience:

**Dr. Manoj** has established Molecular Diagnostic Laboratory (MDL) at NIB. During his tenure as In-charge of MDL, he has established testing of seven types of molecular diagnostic kits comprising qualitative, viral load monitoring and multiplex kits for HIV, HBV and HCV. He has led the MDL for ISO17025 accreditation. He has expertise in various molecular techniques including DNA sequencing, Gene cloning & expression and Genomic library screening. **Dr. Manoj has worked in Molecular Diagnostics for 8 years including 3 years as Incharge. He has also worked in immunodiagnosics for 1 year 6 months, in recombinant products for 1 year 7 months, in blood products for 1 year 3 months and as Incharge of SRRDU for 9 months.**

### Major Publications: (\*corresponding author)

1. **Rajput M.K\* (2020)** Mutations and methods of analysis of mutations in Hepatitis B virus. AIMS Microbiology, 6(4):401-421.
2. Kumar A, **Rajput M.K**, Paliwal D, Chhabra R, Singh S **(2018)** Genotyping & diagnostic methods for hepatitis C virus: A need of low-resource countries. Indian Journal of Medical Research, 147(05):445-455.
3. **Rajput M.K\* (2017)** Regulation of molecular diagnostic (NAT) kits for HBV, HCV and HIV in India. Journal of Clinical and Diagnostic Research 11(3), KL01.
4. **Rajput M.K\* (2016)** Automated triplex (HBV, HCV & HIV) NAT assay systems for Blood donor screening in India. Journal of Clinical and Diagnostic Research 10(2), KE01-KE04.
5. **Rajput M.K\*(2015)** Retrotransposons: The intrinsic genomic evolutionist. Genes and Genomics 37:113-23.
6. **Rajput M.K\*** and Upadhyaya K.C **(2010)** Isolation and Characterization of stress Induced Ty1-copia like retrotransposable elements. Journal of Molecular Biology 44 (5): 786-791.
7. **Rajput M.K\*** and Upadhyaya K.C **(2010)** Characterization of heterogeneity in Ty1-copia group of retrotransposons. Journal of Molecular Biology 44 (4): 529-535.
8. **Rajput M.K\*** and Upadhyaya K.C **(2009)** CARE1, a Ty3-gypsy-like retrotransposon. Genetica 136:429-37.

### Book Chapters

1. Suresh Kumar, **Manoj Kumar Rajput**, Pradeep Yadav **(2021)**  
Laboratory Animal Nutrition, Essentials of Laboratory Animal Science: Principles and Practices, Springer.
2. Suresh Kumar, **Manoj Kumar Rajput**, Sandeepa Bhan **(2021)**  
Laws, Regulations, Policies, and Guidelines Governing the Care and Use of Laboratory Animals, Essentials of Laboratory Animal Science: Principles and Practices, Springer.

### Abstract(s)

1. **Rajput M.K\*** and Praveen Gautam **(2015)**  
Identification of material for development of indigenous HCV standard for qualitative nucleic acid amplification techniques, a make in India initiative. Journal of Biotechnology and Biomaterials 05:283.

**Accession numbers in GenBank (NCBI)**

1. HBV genomic DNA sequences (24)
  2. HCV genomic RNA sequences (42)
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