Date: 01.07.2026

National Institute of Biologicals

1. Name of the Employee : **Dr. Manoj Kumar**
2. Email id : **mkrajput@nib.gov.in**
3. Designation : **Scientist Grade-II & Government Analyst (BP)**
4. Division/LAB : **Head, Dengue Testing Laboratory**
5. Educational Qualification :

Qualification	Year	University	Remarks
M.Sc.	2001	G.J. University, Hisar	Biotechnology (Specialization)
Ph.D.	2007	J.N.U. New Delhi	Molecular Biology (Specialization)
Fellowship(s)			
CSIR-JRF-NET	2001	CSIR	Among toppers and nominated for Shyama Prasad Mukherjee (SPM) Fellowship
ICMR-JRF	2001	ICMR	Qualified all India exam
GATE	2001	IIT, Kanpur	86.13 percentile

6. Year of Joining : **2007**
7. Professional Experience:
   - **(a)** Head, Dengue Testing Laboratory
   - **(b)** As an independent In-charge of Molecular Diagnostic Laboratory (MDL), established MDL. Worked in MDL for 8 years and established testing of seven types of molecular diagnostic kits comprising qualitative (HBV, HCV & HIV), viral load monitoring (HBV, HCV & HIV) and multiplex kit for HBV, HCV and HIV.
   - **(c)** Led the MDL for ISO:17025 accreditation.
   - **(d)** Expertise in various molecular techniques including DNA sequencing, Gene cloning & expression and Genomic & cDNA library screening.
   - **(e)** 1 year 6 months in quality control of immunodiagnostics.
   - **(f)** 1 year 7 months in quality control of recombinant products.
   - **(g)** 6 months in *In-vivo* bioassay lab and animal facility.
   - **(h)** 6 years in quality control of Blood products.
   - **(i)** 9 months in SRRDU as an Independent In-charge.
   - **(j)** In-charge, Procurement Division
   - **(k)** In-charge, Engineering Division

Number of Ph.D. students = 2 (Ongoing)

Number of Post Graduate students' dissertation supervised/co-supervised = 6 (completed)

Publications (up to year 2025)**:**

Total no. of Publications = 20

Number of publications as First author = 17

Number of publications as corresponding author = 15

Selected Publications

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 (Total -125)

1. HBV genomic DNA sequences (24 no.s)
2. HCV genomic RNA sequences (42 no.s)
3. Retrotransposon sequence (~6 kb)
4. Retroelement sequences (58 no.s)