

Dr. Deepak Sharma

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AREA OF SPECIALIZATION

Computational Biology, Translational Bioinformatics, Medical Informatics

CAREER PROFILE

Feb'25 - Till date	Joint Faculty Mehta Family School of Data Science and AI, IIT Roorkee (IIT-R), India
Oct'23 - Till date	Associate Professor Department of Biosciences and Bioengineering, IIT Roorkee (IIT-R), India
Dec'14 - Oct'23	Assistant Professor Department of Biosciences and Bioengineering, IIT Roorkee (IIT-R), India
July'11 - Dec'14	Research Scientist C Translational Health Science and Technology Institute (THSTI), India
May'12 - July'12	Visiting Faculty Center for Bioinformatics & Computational Biology, University of Maryland, USA
July'08 - June'11	INSA Young Scientist National Institute of Immunology (NII), New Delhi, India
July'06 - June'08	DBT-Postdoctoral Fellow (Bioinformatics) National Institute of Immunology (NII), New Delhi, India

ACADEMIC CREDENTIALS

2006	Ph.D. (Biotechnology) All India Institute of Medical Sciences (AIIMS), New Delhi, India
2000	Master of Biotechnology All India Institute of Medical Sciences (AIIMS), New Delhi, India
1998	B.Sc.(Hons.) Human Biology (Specialization in Biochemistry) All India Institute of Medical Sciences (AIIMS), New Delhi, India

BEST 10 PUBLICATIONS

[*corresponding author]

1. Koul M, Kaushik S, Singh K, **Sharma D*** (2025) VITALdb: to select the best viroinformatics tools for a desired virus or application. *Briefings in Bioinformatics*, 26, bbaf084.
2. Priya M, Gupta SK, Koundal A, Kapoor S, Tiwari S, Kidwai S, de Carvalho LPS, Thakur KG, Mahajan D, **Sharma D**, Kumar Y, Singh R (2025) Itaconate mechanism of action and dissimulation in *Mycobacterium tuberculosis*. *Proc Natl Acad Sci USA*, 122, e2423114122.
3. Singh K, Maurya H, Singh P, Panda P, Behera AK, Jamal A, Eslavath G, Mohapatra S, Chauhan H and **Sharma D*** (2023) DISPEL: database for ascertaining the best medicinal plants to cure human diseases. *Database (Oxford)*, baad073.

4. Sharma S, Soni S, Kaushik S, Kalavani M, Dadhwal V, Sharma KA and **Sharma D*** (2023) SwasthGarbh: A smartphone App for improving the quality of antenatal care and ameliorating maternal-fetal health. *IEEE J Biomed Health Inform*, 27, 2729-2738.
5. Malik S, Sadhu S, Elesela S, Pandey RP, Chawla AS, **Sharma D**, Panda L, Rathore D, Ghosh B, Ahuja V, Awasthi A (2017) Transcription factor Foxo1 is essential for IL-9 induction in T helper cells. *Nature Communications*, 8, 815.
6. **Sharma D***, Priyadarshini P and Vrati S (2015) Unraveling the web of viroinformatics: computational tools and databases in virus research. *J Virol*, 89, 1489-1501.
7. Chauhan S, **Sharma D**, Singh A, Surolia A and Tyagi JS (2011) Comprehensive insights into *Mycobacterium tuberculosis* DevR (DosR) regulon activation switch. *Nucleic Acids Res*, 39, 7400-7414.
8. **Sharma D***, Mohanty D and Surolia A (2009) RegAnalyst: a web interface for the analysis of regulatory motifs, networks and pathways. *Nucleic Acids Res*, 37, W193-W201.
9. **Sharma D**, Issac B, Raghava GPS and Ramaswamy R (2004) Spectral Repeat Finder (SRF): identification of repetitive sequences using Fourier transformation. *Bioinformatics*, 20, 1405-1412.
10. Tyagi JS and **Sharma D** (2002) *Mycobacterium smegmatis* and tuberculosis. *Trends Microbiol*, 10, 68-69.

AWARDS AND RECOGNITIONS

- Selected as **Future Global Leader** by Japan Science and Technology Agency in 2017.
- Conferred **Haryana Yuva Vigyan Ratna Award 2013-14** in May 2017.
- Founding member of INYAS (Indian National Young Academy of Science), 2015 - 2019.
- **INSA Medal for Young Scientist - 2008.**
- **All India 1st rank** in Ph.D. (Biotechnology) entrance examination (2001) conducted by AIIMS, New Delhi.
- **All India 5th rank** in M. Biotechnology entrance examination (1998) conducted by AIIMS, New Delhi.
- **All India 2nd rank** in M.Sc.-Ph.D. combined entrance examination (1998) conducted by Dr. B.R. Ambedkar Center for Biomedical Research (ACBR), Delhi University, New Delhi.