

Brief Profile

Name	Dr Praveen Kumar Tripathi
Current Designation	Scientist B & Officer In-charge (ICMR NIMR FU Ranchi)
Research Discipline	Biomedical Sciences
Department / Division	National Institute of Malaria Research Field Unit Ranchi (Jharkhand)
Date of joining the current post	22/03/2022
Date of joining ICMR	22/03/2022
Official E-mail ID	Tripathi.pk@icmr.gov.in
Educational Qualification	PhD (IIT Delhi), PDF (USA), ePG Epidemiology (IIPH), PGD IPR Law (IAIL Delhi)
Research experience (in years):	8 years
Research Interest/Thrust Areas	
<ol style="list-style-type: none"> 1. Understanding the interplay between human microflora and malaria. 2. Development and validation of new interventions in multiples aspects of malaria. 3. Tribal malaria. 	
Number of projects handled as:	
Principal Investigator - 1	
Co-Principal Investigator - 3	
Co-investigator - 5	
Number of doctorate / post-doc students mentored	
As Guide - 0	
As Co-guide - 1	
List of significant publications (Please give the details of the publications in APA format)	
<p>Kumar, J., Kumar, A., Gupta, Y., Vashisht, K., Kumar, S., Sharma, A., Kumar R., Sharon A., Tripathi P.K., Das R., Singh O.P., Singh S., Chakraborti S., Sunil S., and Pandey K.C. (2024). A Cub and Sushi domain containing protein with esterase like activity confers insecticide resistance in Indian malaria vector-Anopheles stephensi. <i>Journal of Biological Chemistry</i>, 107759.</p> <p>Do, H#, Li, Z. R#, Tripathi, P. K.#, Mitra, S., Guerra, S., Dash, A., ... & Kumaraswami, M. (2024). Engineered probiotic overcomes pathogen defences using signal interference and antibiotic production to treat infection in mice. <i>Nature Microbiology</i>, 9(2), 502-513.</p> <p>Upadhyay, S#, Tripathi, P. K#, Singh, M., Raghavendhar, S., Bhardwaj, M., & Patel, A. K. (2020). Evaluation of medicinal herbs as a potential therapeutic option against SARS-CoV-2 targeting its main protease. <i>Phytotherapy Research</i>, 34(12), 3411-3419.</p> <p>Tripathi, P. K#, Upadhyay, S#, Singh, M., Raghavendhar, S., Bhardwaj, M., Sharma, P., & Patel, A. K. (2020). Screening and evaluation of approved drugs as inhibitors of main protease of SARS-CoV-2. <i>International Journal of Biological Macromolecules</i>, 164, 2622-2631.</p> <p>Tripathi, P. K., Soni, A., Yadav, S. P. S., Kumar, A., Gaurav, N., Raghavendhar, S., ... & Patel, A. K. (2020). Evaluation of novobiocin and telmisartan for anti-CHIKV activity. <i>Virology</i>, 548, 250-260.</p>	

Raghavendhar, S., **Tripathi, P. K.**, Ray, P., & Patel, A. K. (2019). Evaluation of medicinal herbs for Anti-CHIKV activity. *Virology*, 533, 45-49.

Gaurav, N., **Tripathi, P. K.**, Kumar, V., Chugh, A., Sundd, M., & Patel, A. K. (2021). Role of nuclear localization signals in the DNA delivery function of Chikungunya virus capsid protein. *Archives of Biochemistry and Biophysics*, 702, 108822.

Tripathi, P. K.#, Singh, J#, Gaurav, N., Garg, D. K., & Patel, A. K. (2020). In-silico and biophysical investigation of biomolecular interaction between naringin and nsP2 of the chikungunya virus. *International Journal of Biological Macromolecules*, 160, 1061-1066.

Gaurav, N., Kumar, S., Raghavendhar, S., **Tripathi, P. K.**, Gupta, S., Arya, R., & Patel, A. K. (2024). Transcriptome analysis of Huh7 cells upon Chikungunya virus infection and capsid transfection reveals regulation of distinct cellular and metabolic pathways. *Virology*, 589, 109953.

Prerana, N., Shrinivasa B.M., Nath S.N., Shankar G., Tripathi, P.K., Kashyap, H., Jain,A., Anvikar A., Chalageri, V.H., (2024) Exploring the hidden mental health consequences of malaria beyond the fever. *Frontiers in Human Neuroscience*, 18.

Shrinivasa, B. M., Vani, H. C., Singhal, R., Singh, K., Nath, S., Tripathi, P. K., ... & Rahi, M. (2024). Community perspective and healthcare assessment in malaria endemic states of India: a cross-sectional study protocol. *BMJ open*, 14(7), e081856.

Singh, K., Tripathi, P. K., Singh, V. K., Patel, A. K., Srivastava, O. N., Singh, S. K., & Kayastha, A. M. (2020). In Silico Analysis of New Potent Anti-hyperglycemic Molecule for Diabetes Type 2 Management. *International Journal of Peptide Research and Therapeutics*, 26, 1031-1042.

Angom, B., Maurya, P., Tripathi, P.K., (2016). Public Health Implications of IPR Policies in Pharmaceutical Industry with Special Reference to India. *GGGI Bi-Annual Refereed International Journal of Management*.

Achievements/Awards/Additional Information

- Awarded by International Society for Antiviral Research, USA to attend 33rd International conference on antiviral research, Seattle, WA, USA. (March/April, 2020)
- Awarded travel support by CSIR, New Delhi, India to attend the International conference on antiviral research in Seattle, USA.
- 'International Travel Award', Indian Institute of Technology Delhi, to attend the 32nd International conference on antiviral research, Baltimore, USA. (May, 2019)
- Awarded Senior Research Fellowship, Indian Council of Medical Research, New Delhi, India, from September 2017.
- Awarded Junior Research Fellowship, IIT Delhi, ICMR New Delhi, India, from January 2015.
- Awarded Prof Gurbaksh Singh Fellowship (2012-13) and Jean and Ashit Ganguly Fellowship (2013-14), Dr. B.R. Ambedkar center for biomedical research, University of Delhi.
- Best Student Award 2012, Bhaskaracharya College of applied sciences, University of Delhi, New Delhi.

Signature