

Dr. Praveen K Bharti, Ph.D.

Scientist E

Parasite-Host Biology Group

ICMR-National Institute of Malaria Research, New Delhi

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icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH

NIMR
NATIONAL INSTITUTE OF
MALARIA RESEARCH

Qualification:

University of Allahabad	B.Sc.	1996-1999	Zoology, Botany, Chemistry
Indian Institute of Technology, Roorkee	M.Sc.	1999-2001	Biotechnology
Rani Durgavati University, Jabalpur	Ph.D.	2004-2008	Biotechnology
Department of Medicine, New York University	Postdoctoral Fellow	2008-2009	Malaria

Research interest:

Molecular aspect of malaria parasite biology and translating the findings in the drug, diagnostic and malaria control measure development

Work experience:

14 years post-PhD experience in various aspect of Malaria research

Positions held:

- (i) *September 2021 till present:*
Scientist E
ICMR-National Institute of Malaria Research, New Delhi, India
- (ii) *September 2018 till August 2021:*
Scientist E
ICMR-National Institute of Research in Tribal Health (NIRTH)
Formerly Regional Medical Research Centre for Tribals (RMRCT),
Jabalpur M.P. India
- (iii) *September 2014 August 2018:*
Scientist D
ICMR-National Institute of Research in Tribal Health (NIRTH)
Formerly Regional Medical Research Centre for Tribals (RMRCT),
Jabalpur M.P. India
- (iv) *March 2010 – August 2014*
Scientist C
ICMR-National Institute of Research in Tribal Health (NIRTH)
Jabalpur M.P. India
- (v) *August 2009 – February 2010:*
Research Associates
ICMR-National Institute of Research in Tribal Health (NIRTH)
Formerly Regional Medical Research Centre for Tribals (RMRCT),
Jabalpur M.P. India

Projects:

1. Tracking antimicrobial resistance and efficiency of malaria diagnostics in tribal areas of India to achieve elimination goal **(on going)**
2. Molecular characterization of *Plasmodium falciparum* heme detoxification protein (HDP) from central India: An approach for malaria diagnostic tool **(completed)**
3. Studies on hrp2/3 deletion from eight highly endemic states of India **(completed)**
4. Study of asymptomatic malaria burden and malaria vector dynamics in Mandla district of Madhya Pradesh: Malaria Elimination Demonstration Project (MEDP). **(completed)**
5. Molecular Surveillance of *Plasmodium falciparum* Drug Resistance Markers in Clinical Samples from India **(completed)**

6. Efficacy and safety of ACT for the treatment of uncomplicated *Plasmodium falciparum* malaria across international borders of India: West Bengal, Meghalaya, Assam and Manipur (**completed**)

Award & Honors

- Qualified JRF-NET (Junior Research Fellowship) Council of Scientific and Industrial Research (CSIR), Govt. of India
- Qualified National level combined exam for Lectureship ability test Council of Scientific and Industrial Research (CSIR) Govt. of India CSIR-UGC,
- Travel award for attending 54th Annual Meeting of American Society of Tropical Medicine and Hygiene, December 11-15, 2005. Washington DC USA.
- Young Scientist Award for best poster presentation in National Symposium of Tribal Health, Organized by RMRCT (ICMR) Jabalpur in 2006

Manpower trained (Number of Ph.D. thesis, post-Doc):

1. Ph.D. thesis: 2 (completed), 4 (ongoing)
2. Post Doc: 01 (On going).

List of publications: Total publications: 134

Google Scholar: <https://scholar.google.com/citations?hl=en&authuser=1&user=XOG9AiwAAAAJ>

Top 10 research article:

1. Nema S, Krishna S, Tiwari A, **Bharti PK**. Limited genetic diversity and expression profile of Plasmodium falciparum haem detoxification protein: a possible diagnostic target. Transactions of The Royal Society of Tropical Medicine and Hygiene. **2022** Jun 20.
2. Bhandari S, Krishna S, Patel PP, Singh MP, Singh N, Sharma A, **Bharti PK**. Diversity and expression of Plasmodium falciparum var gene in severe and mild malaria cases from Central India. International Journal of Infectious Diseases. **2021** Feb 1;103:552-9.
3. Krishna S, Bhandari S, Vishwakarma AK, Verma AK, Singh MP, Sharma A, Singh N, **Bharti PK**. Genetic diversity and expression profile of Plasmodium falciparum Pf34 gene supports its immunogenicity. Current Research in Translational Medicine. **2021** Oct 1;69(4):103308.
4. Kumar R, Verma AK, Shrivastava S, Thota P, Singh MP, Rajasubramaniam S, Das A, **Bharti PK**. First successful field evaluation of new, one-minute haemozoin-based malaria diagnostic device. EClinicalMedicine. **2020** May 1;22:100347.
5. **Bharti PK**, Rajvanshi, H., Nisar, S. et al. Demonstration of indigenous malaria elimination through Track-Test-Treat-Track (T4) strategy in a Malaria Elimination Demonstration Project in Mandla, Madhya Pradesh. Malar J 19, 339 (**2020**).
6. Rajvanshi, H., **Bharti PK**, Nisar, S. et al. Study design and operational framework for a community-based Malaria Elimination Demonstration Project (MEDP) in 1233 villages of district Mandla, Madhya Pradesh. Malar J 19, 410 (**2020**).
7. Ahmad A, Verma AK, Krishna S, Sharma A, Singh N, **Bharti PK**. Plasmodium falciparum glutamate dehydrogenase is genetically conserved across eight malaria endemic states of India: Exploring new avenues of malaria elimination. PLoS One. **2019** Jun 14;14(6):e0218210.
8. **Bharti PK**, Chandel HS, Ahmad A, Krishna S, Udhayakumar V, Singh N. Prevalence of pfrp2 and/or pfrp3 gene deletion in Plasmodium falciparum population in eight highly endemic states in India. PLoS one. **2016** Aug 12;11(8):e0157949.
9. Patel, P., **Bharti PK**, Bansal, D. et al. Prevalence of mutations linked to antimalarial resistance in Plasmodium falciparum from Chhattisgarh, Central India: A malaria elimination point of view. Sci Rep 7, 16690 (**2017**).
10. **Bharti PK**, Singh Chandel, H., Krishna, S. et al. Sequence variation in Plasmodium falciparum Histidine Rich Proteins 2 and 3 in Indian isolates: Implications for Malaria Rapid Diagnostic Test Performance. Sci Rep 7, 1308 (**2017**).