

Inter-Institutional Collaboration

Collaborative projects were undertaken with the following ICMR/non-ICMR institutes and Medical Colleges of the country.

1. 'Studies on the distribution of members of *Anopheles dirus* species complex in north-eastern states' in collaboration with Defence Research Laboratory (DRL), Tezpur, Assam.
2. 'Engineering Indian malaria vector *An. culicifacies* mosquito genetically using transposable element' in collaboration with M.D. University, Rohtak, Haryana.
3. 'Application of attracticide (oviposition pheromone in combination with insect growth regulator) for surveillance and control of chikungunya and dengue mosquitoes in collaboration with Defence Research and Development Establishment (DRDE), Gwalior, Madhya Pradesh, Municipal Corporation, Delhi and NVBDCP.
4. 'Micro level mapping of malaria vectors using GIS in bordering districts of Assam and Arunachal Pradesh to assist malaria control' in collaboration with DRL, Tezpur, Assam.
5. 'Developing epitope-based immunogen selecting different stages of *Plasmodium vivax* using in-built immunoadjuvants and delivery in microspheres' in collaboration with All India Institute of Medical Sciences (AIIMS), New Delhi.
6. 'Immunocapture-based diagnostic assay for the detection of *P. falciparum* HRP-2 and LDH antigen' in collaboration with AIIMS, New Delhi.
7. 'Complement receptor-1 and its gene polymorphisms in relation to the pathophysiology and susceptibility to severe malaria' in collaboration with AIIMS, New Delhi.
8. 'Promotion of *Plasmodium* research in India' in collaboration with New York University, New York, USA.
9. 'Identification of epidemiological risk factors of malaria for development of strategic action plan for malaria control in problematic districts in Karnataka.'
10. 'HRP-2 based rapid detection on *P. falciparum* using agglutination latex-based system' in collaboration with DRDE, Gwalior.
11. 'Evaluation of therapeutic efficacy of antimalarials' in collaboration with the NVBDCP, and funded by the World Bank.
12. 'Therapeutic efficacy of Artemether-Lumefantrine combination in Orissa' in collaboration with AIIMS, New Delhi and WHO.
13. 'Pharmacovigilance of antimalarials in India' in collaboration with AIIMS, New Delhi and NVBDCP, and funded by World Bank.
14. 'Clinical trials of antimalarial agents' in collaboration with Medical Colleges Guwahati and Goa; Wenlock Hospital, Mangalore; Tata Main Hospital, Jamshedpur; Mahadevi Birla Hospital, Ranchi; Ispat General Hospital, Rourkela; Community Welfare Hospital, Rourkela; and funded by agencies like Medicines Malaria Venture, Geneva, Drugs for Neglected Diseases initiative (DNDi), Geneva

- and Ranbaxy.
15. 'Primary screening of medical plants from north-eastern states of India for their antimalarial activity' in collaboration with DRL, Tezpur, Assam.
 16. 'Screening of chloroquine sensitivity status of *P. falciparum* parasites from western border areas of India' in collaboration with DRDE, Gwalior, Madhya Pradesh.
 17. 'Molecular characterisation of nitric oxide synthase in *An. culicifacies*: relevance for refractory mechanism' in collaboration with Institute for Cytology and Preventive Oncology, Noida, Uttar Pradesh.
 18. 'Health impact assessment of Indira Sagar Dam and resettlement colonies in SSP Reservoir impoundment areas in Narmada Valley in Madhya Pradesh' in collaboration with National Institute of Virology, Pune, National Institute of Cholera and Enteric Diseases, Kolkata, and Narmada Valley Corporation.
 19. 'Characterisation of *P. falciparum* strains prevalent in north-eastern states' in collaboration with Regional Medical Research Centre, Dibrugarh, Assam.
 20. 'Screening of antimalarial activity of synthetic compounds in *P. falciparum* culture lines' in collaboration with Department of Chemistry, University of Delhi, Delhi and Indian Institute of Chemical Technology, Hyderabad.
 21. 'Development of site for malaria vaccine trial at Sundargarh district, Orissa' in collaboration with International Centre for Genetic Engineering and Biotechnology, New Delhi and State Government of Orissa.
 22. 'Preparation of a field site for malaria vaccine trial in and around Jabalpur' funded by ICMR task force and Center for Disease Control and Prevention (CDC), Atlanta, USA.
 23. 'Assessing the burden of malaria in pregnancy in India (Chhattisgarh)' in collaboration with Boston University School of Public Health (BUSPH) funded by ICMR and NIH, Washington.
 24. 'Rapid assessment of burden of malaria in pregnancy in Madhya Pradesh, India' in collaboration with CDC, Atlanta, USA, Liverpool School of Medicine, UK, funded by USAID, New Delhi.
 25. 'Assessing the burden of malaria in pregnancy in east India (Jharkhand)' in collaboration with Boston University School of Public Health, funded by USAID, Washington.
 26. 'Monitoring micro action plan to control *P. falciparum*' in collaboration with NVBDCP.

