

## Biodata



Name : Dr. Neeru Singh  
Designation : Scientist 'G' & Director  
Discipline : Malaria  
Educational Qualifications : M.Sc. PhD, FNASc  
Research Experience : 29 Years  
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### Honours/Awards

- Member of steering committee on “Empowerment of Scheduled Tribes (STS)” for **twelfth five year (2012- 2017) Planning Commission, Government of India**
- Member of India Country Coordinating Mechanism (CCM) for Global Fund to fight AIDS, Tuberculosis and Malaria (GFATM) for the term 2012-2014.
- **Co-convener** of ICMR forum on Tribal Health Research
- Member of Technical Working Group for Iron and Malaria, NIH (USA).
- Member of Regional Technical Advisory Group (RTAG) of WHO SEARO.
- Fellow of National Academy of Sciences (NASI), India
- Recipient of WHO fellowship for year 1990-1991
- Recipient of ICMR Award for 1996 for outstanding work in the field of Biomedical Research in underdeveloped areas.
- Recipient of Academy award for “Environmental Entomology” for the year 1999
- Expert Committee on Tribal Health constituted by Ministry of Health & Family Welfare, Govt. of India.

## **Life Membership of learned societies:**

1. Indian Society for Malaria and other communicable diseases.
2. The Indian Society for Parasitology.
3. National Environmental Science Academy.
4. Indian Science Congress.
5. National Academy of Vector Borne Diseases.

## **Appointment held:**

1984-1985: Research Officer, Regional Medical Research Centre Tribals, ICMR, Jabalpur.

1985-1990: Senior Research Officer and Officer-in-Charge of Malaria Research Centre, Field Station since 1989.

1990-1995: Assistant Director and Officer-in-Charge of MRC Field Station.

1995-2000: Deputy Director and Officer-in-Charge of MRC Field Station.

2000-2007: Deputy Director (SG), Officer-in-Charge of RMRCT and MRC Field Station.

2007 Onward: Director, National Institute for Research in Tribal Health, Formerly: Regional Medical Research Centre for Tribals (ICMR), Jabalpur and Officer-in-Charge, NIMR FS, Jabalpur

## **Research specialization:**

Malariology: Epidemiology and vector control. (Tribal malaria and forest malaria)

Research experience : 29 years

Research papers : 130

## **Ongoing projects:**

1. Molecular Epidemiological Study of *P. falciparum* field isolates and the incidence of malaria in endemic regions from Central India.

**Funding source: Department of Biotechnology, New Delhi, India**

2. Clinical and molecular surveillance for monitoring the emerging resistance to antimalarial drugs in *P. falciparum* in Central India.

**Funding source: ICMR, New Delhi, India**

3. Studies on HRP2 and HRP3 expression in *Plasmodium falciparum* parasites from endemic States of India: A prospective evaluation.

**Funding source: ICMR, New Delhi, India**

4. Molecular Epidemiology of Malaria in India and Qatar with an Emphasis on Parasite Diversity, Drug Resistance and Immune Response.

**Funding source: NPRP, Govt. of Qatar, Qatar**

5. Efficacy and safety of artemether-lumefantrine (AL) combination therapy for the treatment of uncomplicated *Plasmodium falciparum* malaria in Madhya Pradesh, Chhattisgarh and Jharkhand.

**Funding source:** WHO, Regional Office for South-East Asia

6. Analysis of *in vivo* transcriptome of *Plasmodium falciparum* from Indian Patients suffering from cerebral malaria and its comparison with that from patients infected with severe malaria (with MOD symptoms)

**Funding source:** ICMR, New Delhi, India

### **Completed projects:**

1. Cerebral malaria associated neurological disorders in India

**Collaborators:** Morehouse School of Medicine, Indian Council of Medical Research (ICMR), NSCB Medical Collage Hospital Jabalpur, The University Collage of London and Liverpool School of Tropical Medicine.

**Funding source:** NIH/ Fogarty International Center (FIC) USA.

2. Preparation of a field site for Malaria Vaccine trial in and around Jabalpur

**Collaborators:** Dr. Altaf Lal, Health attaché, US Embassy, New Delhi, Dr. V. Udhayakumar, CDC Atlanta, USA and Dr. Feiko ter Kuile, Liverpool School of tropical medicine. UK.

**Funding source:** ICMR National Task Force New Delhi, India

3. Rapid assessment of Burden of Malaria in Pregnancy (MiP) in Madhya Pradesh India

**Collaborator:** Dr. Feiko ter Kuile, Dr. Dianne J. Terlouw, Liverpool School of Tropical medicine Liverpool and Dr. V. Udhayakumar, Dr. Meghna Desai, CDC Atlanta,

**Funding source:** USAID

4. Assessing the Burden of Malaria in Pregnancy in East India

**Collaborator:** Davidson Hamer, MD, Center for International Health and Development, Boston

**Funding source:** ICMR and USAID Washington USA

5. Assessing the Burden of Malaria in Pregnancy in Chhattisgarh

**Collaborator:** Dr. Davidson Hammer, Boston University School of Health, Boston, USA

**Funding source:** ICMR, New Delhi, India

6. Comparative evaluation of commercially available combo Rapid diagnostic tests Vs. Traditional and molecular techniques for malaria.

**Funding source:** WHO, Regional Office for South-East Asia

7. Evaluation of commercially available bivalent rapid diagnostic tests for early diagnosis of *Plasmodium falciparum* and *Plasmodium vivax* Malaria.

**Funding source:** DFID, India

8. Assessment of the effectiveness of intensive intervention measures on malaria control programme in tribal district, Balaghat, Madhya Pradesh.

**Funding source:** ICMR, New Delhi, India

9. To determine the effectiveness of intensive intervention measures on malaria prevalence in tribal district, Dindori, Madhya Pradesh.

**Funding source:** ICMR, New Delhi, India.

10. Evaluation of biomarkers to assess malaria severity due to *P. falciparum* in Central India.

**Funding source:** ICMR, New Delhi, India

### ***Prizes/ Award***

Recipient of **ICMR Award** for 1996 for outstanding work in the field of Biomedical Research in underdeveloped areas.

Recipient of **Academy award** for “Environmental Entomology” for the year 1999.

### ***International affairs/ Assignments***

1. **Short term consultant to, WHO** for Protocol development for studies on “Insecticide impregnated bed nets” 1-4<sup>th</sup> June 1994, Bangalore.
2. **Temporary advisor, WHO** for attending a meeting on “Recent advances in diagnostic techniques and vaccines for malaria” 26-29<sup>th</sup> March 1995 New Delhi.
3. Participated in “Intercountry consultation on adverse effects of development projects on Mosquito borne diseases, Faculty of Tropical Medicine, **Mahidol University, Bangkok, Thailand**, 18-22<sup>nd</sup> October 1999.
4. **Temporary advisor, WHO** “Joint WHO/USAID informal consultation meeting on malaria diagnostics 25-27<sup>th</sup> October 1999 WHO, Geneva.
5. Participated (Invited speaker) in Symposium on “Malaria in Pregnancy” jointly organized by **CDC Atlanta and Kenya Medical Research Centre (KEMRI) Kisumu, Kenya**, 13-17 November 1997.
6. **Invited speaker** in “European congress on Tropical Medicine”, Clone Cure and Control, Tropical Health for the 21<sup>st</sup> century September 14-18, **1998 Liverpool, UK**.
7. Participated in a meeting on the preparation of draft guidelines for diagnosis, treatment and transmission control on malaria under **WHO “Roll Back Malaria”** at PGI Chandigarh on 3-5<sup>th</sup> January 2000.
8. Participated in an international workshop on “Placental Malaria” in **Cameroon** from 28<sup>th</sup> July, 2002 to 5<sup>th</sup> August, 2002.

9. Attended international meeting in **Arusha, Tanzania (Global Health Forum – 6)**, 12<sup>th</sup> Nov. to 16<sup>th</sup> Nov. 2002.
10. Recipient of **NIH grant (\$200,000)** for cerebral malaria in collaboration with scientist of **CDC Atlanta, USA**.
11. Course coordinator of **WHO workshop** on “Rapid Assessment Tools for Malaria in Pregnancy” for **four SEAR countries**, 26-29 April 2004.
12. Organized an **Indo-US workshop on Malaria** at NIMR FS Jabalpur from 3-5 OCT 2004.
13. Visited CDC Atlanta for a meeting on ongoing project “**Cerebral malaria associated neurological disorders in India**” from 31<sup>st</sup> OCT-6<sup>th</sup> NOV 2004
14. Attended **Trop Med meeting at Miami** from 7<sup>th</sup> -11<sup>th</sup> NOV 2004 and paper presented on “**Malaria Control in Betul**”.
15. Attended meeting on “Early detection of malaria epidemics from satellite and climate indicators” at **NOAA, Washington DC** from 22-26<sup>th</sup> August 2005.
16. Participated in a meeting on “**Vivax Malaria Research: 2005 and Beyond**” 9-11<sup>th</sup> Dec, 2005 at the Institute of Genomic Research, Rockville MD USA and paper presented “Changing Scenario of Malaria in Central India, the replacement of *P.vivax* by *P.falciparum* (1986-2000).”
17. Attended **Trop Med meeting in Washington** from 11-15<sup>th</sup> Dec, 2005 and paper presented.
18. Attended **Trop Med meeting in Philadelphia** from 4-8<sup>th</sup> Nov, 2007 and papers presented.
19. Attended **meeting on Data analysis and Project Review in CIHD/BUSPH, Boston University, Boston** from 4-8<sup>th</sup> Mar, 2008.
20. **Member of technical working group (TWG) of NIH Washington for 5 years** from 1 March 2008.
21. **Attended first meeting of Technical working group of NIH** on 24<sup>th</sup> –25<sup>th</sup> April 2008 in Washington.
22. **Second meeting of TWG** on 27<sup>th</sup> – 28<sup>th</sup> July 2008 in Washington.
23. Participation in the expert meeting on "Pregnancy malaria: Diagnosing infection, predicting disease" held at **Annecy, France** from 13-14 Nov 2008.
24. 57th Annual Meeting of the American Society of Tropical Medicine and Hygiene (ASTMH) from 7-11 Dec 2008 in **New Orleans, Louisiana, USA**. Paper presented on “CM in Central India”.
25. Attended conference "58th American Society of Tropical Medicine and Hygiene" and "one day meeting with CDC collaborators" from 16 – 22 Nov. 2009 in **USA Washington DC and CDC Atlanta**.
26. Attended meeting on “RBM malaria in pregnancy (MPWG) Working Group meeting addressing malaria in pregnancy in the Asia Pacific Region, **Geneva, Switzerland**” from 18 – 20<sup>th</sup> April 2011.
27. Attended meeting on “WHO: Informal consultation on the development of regional malaria control and elimination strategy (2011-15)” from 19-22 July 2011.

28. Attended NIH (National Institute for Child Health & Human Development) Technical Working Group Meeting from 9<sup>th</sup> -11<sup>th</sup> Feb 2012.
29. Attended meeting on Third Iron and Malaria Research Review Committee (RRC) meeting as a member of Technical Working Group from 13-14 June, 2013 at National Institute of Child Health and Human Development (NICHD) of the U.S. National Institutes of Health (NIH), Rockville, Maryland
30. Delivered a lecture and discussion on collaborative project from 15-18 June, 2013 at Leslie Dan Faculty of Pharmacy, University of Toronto, Canada.
31. Attended meetings on World Health Organization (WHO) Global Technical Strategy (GTS) for Malaria Control and Elimination 2016-2025 Country Typology meeting from 14<sup>th</sup> – 15<sup>th</sup> October, 2013 at Geneva, Switzerland and Roll Back Malaria Partnership Work Plan (PWP) Dialogue meeting on 16<sup>th</sup> October, 2013 at Geneva, Switzerland.
32. Attended the informal consultation on “operational research to support accelerating malaria elimination in the context of artemisinin resistance falciparum malaria in the Greater Mekong Sub-Region” from 9<sup>th</sup> – 10<sup>th</sup> December 2013 in Bangkok, Thailand.
33. Attended the Second collaborative meeting of collaborative project (NPRP 5-098-3-021) entitled “Molecular Epidemiology of Malaria in India and Qatar with an emphasis on parasite diversity, drug resistance and immune response” from 14<sup>th</sup>-17<sup>th</sup> December, 2013 at Weill Cornell Medical College in Qatar.
34. Attended the Meeting of the Greater Mekong Subregion (GMS) Therapeutic Efficacy Study (TES) Network at Hanoi, Viet Nam from 20.05.2014 to 21.05.2014.

### ***Recipient of WHO fellowship for year 1990-1991***

2<sup>nd</sup> April-30<sup>th</sup> June – **London School of Tropical Medicine and Hygiene.**

### ***Did short courses on***

Module of vector control. Intensive epidemiology 2<sup>nd</sup> July-30 December – **University of California.**

### **Paper reviewed**

#### ***International Journals***

1. Emerging Infectious Disease (CDC, Atlanta).
2. WHO bulletin (Geneva).
3. American Journal of Tropical Medicine Hygiene (USA).
4. European Journal of General Medicine (London).
5. Tropical Medicine and International Health (London).
6. Journal of Infectious Diseases (London).
7. Malaria Journal (London).

8. Plos one (Cambridge, UK)
9. Plos Medicine (Cambridge, UK)
10. Population Health Metrics (London, UK)

### ***Indian Journals***

1. Current Science
2. Journal of Parasitic Disease
3. Journal of Vector Borne Disease (formerly known as Journal of Malariology).
4. Indian Journal of Medical Research, New Delhi.
5. Indian Journal of Medical Microbiology, Hyderabad.
6. Parasitology.