



# Dr. Nalini Mishra

## Scientist - C

Presently working as Scientist-C, ICMR-RMRC Gorakhpur, (U.P.) previously worked as Scientist-C in VRDL, ICMR-RMRC Gorakhpur, (U.P.), **officer-in-charge** (Scientist-C) for Model Rural Health Research Unit (MRHRU), Badoni, Datia (M.P.) under the Department of Health Research, Ministry of Health and Family Welfare, Government of India mentored by ICMR- **National Institute for Research in Tribal Health** (NIRTH), Jabalpur (M.P.). Honour received by competent govt. authorities for providing services for **COVID -19 testing and diagnostics for COVID-19** through RT-PCR method, at Govt. Medical College, Datia (M.P.) during COVID pandemic. Learned to edit manuscripts while working in Publication Division of ICMR - **National Institute of Malaria Research (NIMR)**, Delhi, experienced in teaching to undergrads (environmental studies), well versed with *Drosophila* cultures, life-history traits assays and biochemical experiments during Ph.D. tenure from **Department of Zoology, University of Delhi** and isolation of bacteria and other techniques towards the development of biopesticides in **Indian Agriculture Research Institute (IARI)**, Pusa, Delhi. Consequently, developed a strong interest in research, became a hardworking, continuous learner, and a good planner. Core strengths are career-oriented have a focused approach towards the task on hand, self-motivated, and very organized. I won many awards and have certificates for training and conferences attended, during my educational venture and till Ph.D. duration. As a passion for health. I am certificated Yoga teacher (training with diploma).

### EDUCATION

- **Ph.D.**, Department of Zoology; University of Delhi, 2017.
- **M.Phil.**, Department of Zoology; University of Delhi, 2012.
- **M.Sc., Zoology** (with specialization in **Entomology**), Miranda House, University of Delhi, 2010.
- **B.Sc., Zoology**, Botany, Chemistry, St. Joseph's College, Deen Dayal Upadhyaya Gorakhpur University, 2008.
- Completion of course of **Health Research Fundamentals** by ICMR- NIE

### PROJECT AS PI OR CO-PI: (IN TOTAL TILL PRESENT)

- I. Pan-India study on leishmaniasis transmission dynamics in relation to vector and reservoir host of *L. donovani*-Budget in INR 2,03,29,160/- as PI (intramural ICMR grant)
- II. Feasibility of Predicting Vector-borne diseases through Environmental and Entomological Parameters'-50,000USD((43,78,364.22) under BFI-BIOME Medical INI Grant Program as PI (extramural)
- III. ii)Creation of a national network of existing and upcoming high risk pathogens laboratories (BSL-3/4) labs across departments and keeping their 'interlinkages' functional for use during outbreak response across sectors- budget in INR 7372680/- as Co-PI (multi-centric)
- IV. iii)Monitoring resistance to Doxycycline & Azithromycin in AFI/AES cases with scrub typhus in eastern Uttar Pradesh- budget in INR 21938000/- as Co-PI intramural
- V. iv)Seroprevalence, risk factors and molecular epidemiology of viral hepatitis: A population-based survey in Tharu tribes of eastern Uttar Pradesh- budget in INR 19096800/- as Co-PI intramural
- VI. v)Determination of resistance frequency and intensity among field populations of malaria vectors to public health insecticides in use in endemic States of India- Budget in INR 11,37,500/- as Co-PI (Multicentric IR Task Force study)
- VII. vi)Studying the prevalence of Asymptomatic malaria and vector bionomics in eastern Uttar Pradesh- Budget in INR 20,00,000 as Co-PI intramural
- VIII. vii)Pan India surveillance for respiratory viruses through DHR-ICMR VRDL Network- budget in INR 7,61,62,320/- as Co-PI (multi-centric)
- IX. viii)Monitoring of insecticide susceptibility test and cone bioassay on IRS surfaces of Sandflies- Budget in INR 20,00,000 as Co-PI (multi-centric)

### PUBLICATIONS (Total 28 publications and 8 abstracts till date)

- "Revisiting the sequenced sand fly *Phlebotomus papatasi* proteome", Acta Parasitologica, IF=1.5
- "How can behavioural studies in vector control programme & Kala-azar Mukta Panchayat initiative contribute towards ending visceral leishmaniasis in India?" Infectious Diseases, (2025), IF=3.0
- An outbreak of acute hemorrhagic conjunctivitis caused by coxsackievirus A24 in Eastern Uttar Pradesh, India 2023. Intervirology 2024;; IF=3.2.
- Profile of diseases prevalent in Datia District of Madhya Pradesh, India. Front. Public Health 10:926000. doi: 10.3389/fpubh.2022.926000 (JCR impact factor:6.7)
- Rare and first case report of a diffused cutaneous leishmaniasis from Uttar Pradesh state, India, Journal of Vector Borne Diseases 62(1), 2025, pp. 125–12, IF= 0.8,
- Evolution of reduced minimum critical size as a response to selection for rapid pre-adult development in *Drosophila melanogaster*. R. Soc. Open Sci 2020;IF: 2.51
- Finding the hidden genes in *Leishmania guyanensis* genome: Application of proteogenomics approach to improve the genome annotation in the kinetoplastid parasite; Inf. Serv., 2017; 100: 105-111. ISSN: 0070-7233

- **Contact No.:** +91-8860022289
- **Email Id:** [nalini.mishra@icmr.gov.in](mailto:nalini.mishra@icmr.gov.in); [nalini10mishra@gmail.com](mailto:nalini10mishra@gmail.com)
- **ORCID:** 0000-0002-3441-336X
- **Linkedin Id:** [linkedin.com/in/dr-nalini-mishra-3051241b](https://www.linkedin.com/in/dr-nalini-mishra-3051241b)

### ADMINISTRATIVE WORKS

- Chairperson of ICC in ICMR-RMRC Gorakhpur.
- Faculty in National Public Health Entomology course (launched in 2022 till present) in all semesters, courses taken (code-101, 201, 303) and in fourth semester one dissertation student.

Member of screening committee for recruitments of project positions under various projects order no. RMRC/GKP/260/2023-24/466.

Member of various selection committees for different projects in ICMR-NIRTH, Jabalpur:

### TRAININGS & WORKSHOP

- Completed Training on "Gender-Based violence and human rights for promoting women's health" from 17 to 21 February, 2025 organized by NIIHFW campus, New Delhi.
- Completed 4 weeks training program "Young Scientist induction program" under aegis of ICMR conducted by Indian Institute of Management Visakhapatnam from 19th August – 14th September 2024 at IIM Visakhapatnam.
- Participated in "Three day training-cum-workshop on systematic review and meta-analysis" from 24-26 July, 2024, held at ICMR-RMRC Gorakhpur.
- Attended the "ICMR Collaborating Centre of Excellence (ICMR-CCoE) training" workshop from 10th to 12th July 2024 for a period of 3 days at The Wellcome Trust Research Laboratory, Division of Gastrointestinal Sciences, Christian Medical College, Vellore 632 004, Tamil Nadu, India.
- Training completed on "ICMR Task Force Study on monitoring of **insecticide resistance in malaria vectors**" organized by ICMR and MERA-India held from 2nd to 4th August 2023, at NIMR, Delhi.
- Successfully completed 3 days training from 19th July to 21st July 2023 on "**Sandfly vector identification, collection and adult insecticide resistance assay**" from ICMR-RMRI, Patna, a WHO collaborative centre for Leishmaniasis
- **Mobile Biosafety level -3** training from ICMR-NIV
- Diploma in Yoga Teacher Training