

Brief Profile

Name	Dr VAISHALI VERMA
Current Designation	Scientist 'C'
Research Discipline	Vector Control and Insecticide Resistance
Department / Division	Vector Biology and Control
Date of joining the current post	26/10/2023
Date of joining ICMR	01/02/2008
Official E-mail ID	vaishali.verma.nimr@gov.in
Educational Qualification	M.Sc., Ph.D. (Zoology)
Research experience (in years):	18 years
Research Interest/Thrust Areas	
Phase I Testing and Evaluation of Public Health Pesticides, Vector Control, Insecticide Resistance Management	
Number of projects handled as:	
Principal Investigator - 05	
Co-Principal Investigator - 03	
Co-investigator - 04	
Number of doctorate / post-doc students mentored	
As Guide - 0	
As Co-guide - 2	
List of significant publications (Please give the details of the publications in APA format)	
List Attached as Annexure I	
Achievements/Awards/Additional Information	
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Signature

ANNEXURE 1

Dr. Vaishali Verma

PUBLICATIONS: 24 (TOTAL CITATIONS - 300)

WHO TECHNICAL REPORT – 2

SOP – 2

BOOK CHAPTER - 1

PAPERS PUBLISHED - 18

NATIONAL PROTOCOL- 1

Contributed in “Common Protocol for Uniform Evaluation of Public Health Pesticides for Use in Vector Control, Third Edition. Indian Council of Medical Research; 2023, Licence: CC BY-NC-SA 3.0”

WHO TECHNICAL REPORT - 2

1. Determining discriminating concentrations of insecticides for monitoring resistance in mosquitoes report of a multi-centre laboratory study” - A Multicentre study, March 2022. Study Investigator: Kamaraju Raghavendra, **Vaishali Verma**, NIMR Delhi. <https://apps.who.int/iris/bitstream/handle/10665/352616/9789240045200-eng.pdf>.
2. Determining discriminating concentrations of insecticides for monitoring resistance in sand flies: report of a multi-centre laboratory study and WHO expert consultations. Geneva: World Health Organization; 2022. Licence: CC BY-NC-SA 3.0 IGO. **Investigators: India site - Dr Manju Rahi, Dr Kamaraju Raghavendra, Dr Vaishali Verma.** <https://www.who.int/publications/i/item/9789240064416>

WHO Standard Operating Procedures- 2

1. Standard operating procedure for testing the susceptibility of adult sand flies to insecticides in WHO tube tests. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.
2. Standard operating procedure for testing the susceptibility of adult sand flies to insecticides in WHO bottle bioassays. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.

Contribution in article

1. “Raghavendra K., 2015. Malaria samvahak machharon mein kitnashakon ke virudh pratirodhakta vikas ki chunotiyen. Malaria Patrika (Hindi), Vol 23 (2): 5-12” Published by NIMR (Institutional Journal), Delhi (Hindi).

Sl. No	Title	Impact Factor [#]	Citation Index [#]
	PAPERS PUBLISHED - 19		
1.	Verma V , Elamathi N, Velamuri P S, Sreehari U, Agrawal O P, Raghavendra K*. Chlorfenapyr: Irritant effect compared to other insecticides and its intrinsic toxicity in multi-insecticide-susceptible and resistant <i>Anopheles stephensi</i> . J Vector Borne Dis. 2015. 52 (1): 99-103.	1.473	8

2.	Verma V , Agrawal O P, Velamuri P S, Raghavendra K*. A laboratory study on suppression of resistance gene by differential exposures to insecticide in <i>Anopheles stephensi</i> Liston, J Vector Borne Dis. 2018. 52 (3): 38-42.	1.473	-
3.	Raghavendra K, Cornel A J, Reddy BPN, Collins FH, Nanda N, Chandra D, Verma V , Dash A P, SubbaraoSK. Multiplex PCR assay and phylogenetic analysis of sequences derived from D2 domain of 28S rDNA distinguished members of the <i>Anopheles culicifacies</i> complex into two groups, A/D and B/C/E. Infection, Genetics and Evolution 2009. 9: 271–277	2.5454	21
4.	Raghavendra K, Verma V , Srivastava HC, Gunasekaran K, Sreehari U, Dash AP,.Persistence of DDT, malathion and deltamethrin resistance in <i>Anopheles culicifacies</i> after their sequential withdrawal from indoor residual spraying in Surat district. Indian J Med Res. 2010 132: 260-264	1.508	52
5.	Elamathi N, Barik T K, Verma V , Velamuri P S, Bhatt R M, Sharma S K, Raghavendra K*. Standardization of a bottle assay—an indigenous method for laboratory and field monitoring of insecticide resistance and comparison with WHO adult susceptibility test. Parasitol Res. 2014.113 (10): 3859-66	2.558	5
6.	Elamathi N, Verma V , Poonam S V, Uragayala S, Kamaraju R, 2014. Neonicotinoids in vector control: <i>In silico</i> approach. Asian Journal of Biomedical and Pharmaceutical Sciences. 04 (39); 2014, 25-29.	0.96	8
7.	SreehariU, Verma V , Elamathi N, Velamuri P S, Raghavendra K. Adulticidal and larvicidal efficacy of three neonicotinoids against insecticide susceptible and resistant mosquito strains. Indian J Med Res.2015.142 (Supplement), 64-70	1.508	32
8.	Elamathi N, Raghavendra K, Velamuri PS, Verma V , Valecha N. Detoxification enzymes in mosquitoes and their role in insecticide resistance mechanism – A brief Review. National Journal of Life Science (NJLS) Special Issue. 2016, 13 (3): 138-141	-	-
9.	Kamaraju Raghavendra, Poonam Sharma Velamuri, Vaishali Verma , Natarajan Elamathi, Tapan Kumar Barik, Rajendra Mohan Bhatt & Aditya Prasad Dash. Temporo-spatial distribution of insecticide resistance in Indian malaria vectors in last quarter-century (1991-2016) emphasize the need for regular resistance monitoring and management. J Vector Borne Dis. 2017. 54 (2) : 111–130	1.473	63
10.	Kona Madhavinadha Prasad, Kamaraju Raghavendra, Vaishali Verma , Poonam Sharma Velamuri & Veena Pande. Esterases are responsible for malathion resistance in <i>Anopheles stephensi</i> : A proof using Native PAGE. J Vector Borne Dis. 2017. 54 (3): 226	1.473	17
11.	Arpita Shukla, Rajalakshmi A, Vaishali Verma , Raghavendra K., Alex Eapen, Srivastava P.K., Jayalakshmi Krishnan. Preliminary study on underlying biochemical mechanism of insecticide resistance of <i>Aedes albopictus</i> in Thiruvavur district, Tamil Nadu, India, Dengue Bulletin (WHO SEAR) – Volume 41, December 2020.	-	1

12.	Sarita Kumar, Aarti Sharma, Roopa Rani Samal, Manoj Kumar, Vaishali Verma , Ravinder Kumar Sagar, ShriPati Singh, Kamaraju Raghavendra . Attractive Sugar Bait Formulation for Development of Attractive Toxic Sugar Bait for Control of <i>Aedes aegypti</i> Linnaeus(, <i>Journal of Tropical Medicine</i> , vol. 2022, Article ID 2977454, 10 pages, 2022. https://doi.org/10.1155/2022/2977454	2.88	2
13.	Verma V. , Rahi, M., Divya K.and Kamaraju, R., 2022. Laboratory evaluation of a new alphacypermethrin long-lasting insecticidal net against <i>Anopheles culicifaciens</i> . <i>Parasitology Research</i> ,(2022) 121:2725–2731	2.29	
14.	K. Raghavendra, M. Rahi, V. Verma , P.S. Velamuri, D. Kamaraju, K. Baruah, J. Chhibber-Goel, A. Sharma, Insecticide resistance status of malaria vectors in the malaria endemic states of India: implications and way forward for malaria elimination, <i>HELIYON</i> , https://doi.org/10.1016/j.heliyon.2022.e11902 .	2.85	1
15.	Corbel, V., M.D. Kont, M.L. Liliana Ahumada, L. Andréo, B. Bazoma, B. Brooke, J.A.P. Caballero, B. Lambert, T.S. Churcher, S. Duchon, J. Etang, A.E. Flores, K. Gunasekaran, W. Juntarajumnong, M. Kirby, R. Lees, A. Lenhart, A. Martins, P. Mueller, R. N'Guessan, C. Ngufor, G. Praulins, K. Raghavendra, A.C. Rus, M. Samuel, V. Verma , A.K.S Ying, S. Sungvornyothin, S. Uragayala, R. Velayudhan and R.S. Yadav. A new WHO bottle bioassay method to assess the susceptibility of mosquito vectors to public health insecticides: results from a WHO-coordinated multi-centre study. <i>Parasites & Vectors</i> (2023) 16:21.	3.87	9
16.	Loick Pradel Kojom Foko, Joseph Hawadak, Vaishali Verma , Philippe Belle EbandaKedi, Carole Else Eboumbou Moukoko, Kamaraju Raghavendra, Veena Pande, and Vineeta Singh. Phytofabrication and characterization of <i>Alchorneacordifolia</i> silver nanoparticles and evaluation of antiplasmodial, hemocompatibility and larvicidal potential. <i>Front. Bioeng. Biotechnol.</i> 11:1109841.doi: 10.3389/fbioe.2023.1109841	6.064	
17.	Sarita Kumar, Aarti Sharma, Roopa Rani Samal, Manoj Kumar, Vaishali Verma , Ravinder Kumar Sagar, Shri Pati Singh and Kamaraju Raghavendra. Laboratory evaluation of the efficacy of deltamethrin-laced attractive toxic sugar bait formulation on <i>Anopheles stephensi</i> . <i>Malaria Journal</i> 22 , 92 (2023). https://doi.org/10.1186/s12936-023-04524-3	2.885	2
18.	Kumar S, Sharma A, Samal RR, Verma V, Sagar RK, Singh SP, Raghavendra K. Development of Deltamethrin-Laced Attractive Toxic Sugar Bait to Control <i>Aedes aegypti</i> (Linnaeus) Population. <i>J Trop Med.</i> 2024 Jan 6;2024:6966205. doi: 10.1155/2024/6966205. PMID: 38223354; PMCID: PMC10787649.	2.705	
	Book Chapter		
19.	Insecticide resistance in malaria vectors and management strategies in India, Rajpal Singh Yadav, Kamaraju Raghavendra, Poonam Sharma Velamuri, Vaishali Verma and Sreehari Uragayala, PP 129-148, in <i>Vector Biology and Control An Update for Malaria Elimination Initiative in India</i> published by <i>The National Academy of Sciences, India</i> 2020.		1