

## Brief Profile

<b>Name</b>	Jaspreet Kaur
<b>Current Designation</b>	Scientist-C
<b>Research Discipline</b>	Infectious diseases, malaria, insecticide resistance, transmission blocking
<b>Department / Division</b>	Vector Genomics
<b>Date of joining the current post</b>	1 Sep 2020
<b>Date of joining ICMR</b>	21 Nov 2016
<b>Official E-mail ID</b>	<a href="mailto:drjaspreet.kaur@icmr.gov.in">drjaspreet.kaur@icmr.gov.in</a> ; <a href="mailto:jaspreetkaur83@gmail.com">jaspreetkaur83@gmail.com</a>
<b>Educational Qualification</b>	Ph.D
<b>Research experience (in years):</b>	More than 10 years (Post Ph.D; Jul 2014- till now)
<b>Research Interest/Thrust Areas</b>	
<b>Infectious diseases, malaria, vector genomics</b>	
<b>Number of projects handled as:</b>	
Principal Investigator - 6	
Co-Principal Investigator - 1	
Co-investigator- 6	
<b>Number of doctorate / post-doc students mentored</b>	
As Guide – 2 Ph.D students	
As Co-guide – 1 Ph.D student	
<b>List of significant publications (recent four years publications)</b>	
<ol style="list-style-type: none"> <li>1. Jeena, M., Kumar, G., Yadav, C. P., Lata, S., Thakur, Y., Kaur, J., &amp; Pasi, S. (2024). Polyols induce acute oxidative stress and mortality in Indian malaria vector <i>Anopheles stephensi</i> (Diptera: Culicidae): potential for use as sugar-cum-toxin source in toxic sugar baits. <i>Pest Management Science</i>, 80(10), 5180–5185.</li> <li>2. SSA Hussain, K Singh, G Kumar, S Chandra, M Jeena, S Pasi, J Kaur. Changing patterns of Jhum cultivation in Tripura, India and their impact on malaria. <i>Journal of Global Health Reports</i> 8, e2024022</li> <li>3. Kumar G, Gupta S, Kaur J et al. Mapping malaria vectors and insecticide resistance in a high-endemic district of Haryana, India: implications for vector control strategies. <i>Malar J.</i> 2024;23(1):107. doi:10.1186/s12936-023-04797-8</li> <li>4. Kumar G, Pasi S, Kaur J, Singh H. "Abiotic and Biotic Interactions of Mosquitoes". book chapter in book entitled "Mosquitoes- Biology, pathogenicity and management" (Book Chapter – Springer publication, 2024)</li> <li>5. Kumar G, Pasi S, Yadav CP, Kaur J, Sharma A. Potential of ivermectin as an active ingredient of the attractive toxic sugar baits against the Indian malaria vectors <i>Anopheles culicifacies</i> and <i>Anopheles stephensi</i>. <i>Pest Manag Sci.</i> 2023;79(1):474-480. doi:10.1002/ps.7217</li> <li>6. Kaur J, Kaura T, Sharma A, et al. Malaria vector sibling species distribution in different endemic districts of Punjab, India. <i>J Vector Borne Dis.</i> 2023;60(2):154-160. doi:10.4103/0972-9062.361170</li> <li>7. Kaura T, Devi S, Mewara A, Kaur J, Singh NI, Lovleen, Sharma SK, Ratho RK, Sehgal R, Grover GS. Detection of Insecticide Susceptibility Status and KDR Mutation in Field-Collected <i>Aedes Aegypti</i> from Different Districts of Punjab, India. <i>J Commun Dis.</i> 2022;54(4):21-28. doi: <a href="https://doi.org/10.24321/0019.5138.202298">https://doi.org/10.24321/0019.5138.202298</a></li> <li>8. Kaur J, Yadav CP, Chauhan NM, Baharia RK. Economic burden estimation associated with dengue and chikungunya in Gujarat, India. <i>J Family Med Prim Care.</i> 2022;11(9):5393-5403. doi: 10.4103/jfmpc.jfmpc_694_21</li> <li>9. Kumar G, Shankar H, Pasi S, Kaur J. Asymptomatic and low-density <i>Plasmodium</i> infections in India: an unexplored link. <i>Pathog Glob Health.</i> 2022;116(8):465-466.</li> <li>10. Pasi S, Kumar G, Hussain SSA, Kaur J. Rice agroecosystem and malaria risk in India. <i>Lancet Planet Health.</i></li> </ol>	

2022;6(5):e384. doi:10.1016/S2542-5196(22)00096-1.

11. Baharia RK, Kaur J, Sindhania A, et al. Bionomics of *Anopheles culicifacies* Sensu Lato in two Malaria Endemic Districts of Central Gujarat, India. *J Arthropod Borne Dis.* 2022;16(2):108-123. doi:10.18502/jad.v16i2.11802
12. Kumar G, Kaur J, Pasi S. Hurdles in Achieving the Goal of Malaria Elimination by India. *Asia Pacific J Tropical Medicine.* 2022; 15(7):p 287-289. doi: 10.4103/1995-7645.345939
13. Kaur J, Kaura T, Sharma A et al. Surveillance-based estimation of the malaria disease burden in a low endemic state of Punjab, India, targeted for malaria elimination. *Trans R Soc Trop Med Hyg.* 2021;115(5):512-519. doi:10.1093/trstmh/trab005
14. Faizi N, Kaur J. Insecticide resistance and ITNs in India. *Lancet Glob Health.* 2021;9(10):e1370. doi:10.1016/S2214-109X(21)00369-7
15. Rahi M, Mittal P, Kaur J, Sharma A. Malaria card: an empowering tool for patients and for epidemiological recording. *Journal of Global Health Reports.* 2021;5:e2021062. doi:10.29392/001c.24942

#### **Achievements/Awards/Additional Information**

- Senior Research *Fellowship* awarded by Indian Council of Medical Research (ICMR), New Delhi, India.
- *Ist prize* in poster presentation of abstract entitled “Effect of cholecystectomy on orocecal transit time in patients with gallstones” in Indian Society of Gastroenterology conference (ISGCON)- 2010, Hyderabad.
- Awarded *Travel Grant* by Indian Council of Medical Research to give an oral presentation of the research work at Digestive Disease Week (DDW) held on 19<sup>th</sup> -22<sup>nd</sup> May, 2012 in San Diego, California.
- Prestigious Mahatma Gandhi Institute of Medical sciences (*MGIMS*) *award* by 37<sup>th</sup> Annual Conference of Association of Clinical Biochemist of India held at Mumbai from 13<sup>th</sup> -15<sup>th</sup> Dec 2010.
- Prestigious *MGIMS award* for following abstract at 38<sup>th</sup> Annual Conference of Association of Clinical Biochemist of India held at Gwalior from 3<sup>rd</sup> -6<sup>th</sup> Dec 2011.
- Second prize in poster presentation titled, “Characterization of cuticular proteins in insecticide resistance of *Anopheles stephensi*” at Society for Vector Ecology (SOVE) international conference held at Puducherry, 2023.

**Signature**