

BIOGRAPHICAL SKETCH

- **Name:** Dr. Ram Das
- **Position:** Scientist 'C'
- **Group:** Host-Parasite Biology (Molecular Biology)
- **Address:** ICMR-National Institute of Malaria Research, Dwarka, Sector-8, New Delhi-10077
- **Email:** drdas_3@yahoo.co.in
- Education: Ph.D., **Year:** 2004
- **Specialization:** Molecular Biology

A. Research Experience

I have been in research with over fourteen years of experience in microbiology and molecular biology, with having extensive skills in molecular mechanisms of drug resistance. I have been involved in the various research project related to detection of drug resistance of microbes by microbiological and molecular methods. Prior to joining of National Institute of Malaria Research (NIMR) I have been worked on (i) anti-tubercular agents activities, particularly in molecular mechanisms of multi drug resistant (MDR) isolates of *M. tuberculosis*, *M. leprae*. (ii) Early detection of Mycobacterial species and other microorganisms by molecular methods such as 16S rRNA gene PCR and DNA sequencing. (iii) Diagnosis of bacilli by *in-situ* hybridization approaches for characterization of histological specimen.(iv) Molecular epidemiology for strain variation in *Mycobacterium tuberculosis* and *M. leprae* by IS6110, DNA fingerprinting and microsatellite markers. (v) Host and pathogen interaction in leprosy and tuberculosis patients.

Since 2012, I am working on malaria (i) As a PI /Co-PI carried out the research projects related development of molecular tools for differentiation between relapse and re-infection of *Plasmodium vivax* malaria and pattern of transmission of *vivax* malaria. (ii) Developing molecular tools for detection of asymptomatic malaria. (iii) Initiating the research project on gametocyte biomarker for detection of *Plasmodium falciparum* infectious reservoirs in relation to malaria control. (iv) Initiated the research project development of molecular diagnostics tool for identification of non-human primates malaria parasites.(v). Molecular epidemiology of dengue virus. (vi) Translational research on control of *vivax* malaria by anti-relapse drug therapy in field area.

B. Received training: 14

C. Membership of National body: 2

D. Research Training received: 14

E. Work published in last

1. Savargaonkar D, Sinha S, Srivastava B, Nagpal BN, Sinha A, Shamim A, **Ram Das**, Pande V, Anvikar A R, Valecha N. An Epidemiological study of dengue and its coinfections in Delhi. *International Journal of Infectious Diseases* **2018**,74:41-46. <https://doi.org/10.1016/j.ijid.2018.06.020>.
2. Suman Lata, Sandhya kumari , Ram Das, Shweta Pasi. Cutaneous Leishmaniasis and/or Dermal Leishmanoid in Himachal Pradesh (India). 2020. <https://orcid.org/0000-0001-6169-4833>.
3. Mittal M , Biswas SK , Singh V Arela N , Katoch VM , **Ram Das** , Yadav VS , Bajaj B, Mohanty KK Association of Toll like receptor 2 and 9 gene variants with pulmonary tuberculosis: exploration in a northern Indian population. *Molecular Biology Reports* .**2018**, DOI: 10.1007/s11033-018-4182-z.
4. Kumar D, Kumar G, **Ram Das** Veena A. Strong larvicidal potential of silver nanoparticles (AgNPs) synthesized using *Holarrhena antidysenterica* (L.) Wall. bark extract against malarial vector, *Anopheles stephensi* Liston. *Pro Saf Envir Prot* 2018, 116: 137–148. <https://doi.org/10.1016/j.psep.2018.02.001>.
5. Kumar D, Kumar G, **Das R**, Kumar R, Agrawal V. In vitro elicitation, isolation, and characterization of conessine biomolecule from *Holarrhena antidysenterica* (L.) Wall. callus and its larvicidal activity against malaria vector, *Anopheles stephensi* Liston. *Environ Sci Pollut Res* . **2018**, 25:6783-6796. doi: 10.1007/s11356-017-1038-3.
6. Mercy Aparna , Aparna S,, Sarada I, **Ram Das**. Assessment of Sputum Quality and Its Importance in the Rapid Diagnosis of Pulmonary Tuberculosis. *Archi Clin Microbiol* **2017**, 8:1-3: DOI: 10.4172/1989-8436.100053.
7. **Ram Das**, Dhiman RC, Savargaonkar D, Anvikar AR Valecha N. Genotyping of *Plasmodium vivax* by minisatellite marker and its application in differentiating relapse and new infection. *Malaria Journal* **2016**, 15:115. DOI: 10.1186/s12936-016-1139-3.
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10. Raizada N, Sachdeva KS, Chauhan DS, Malhotra B, Reddy K, Dave PV, Mundade Y, Patel P, Ramachandran R, **Ram Das**, Solanki R, Douglas FW, Sahu S, O'Brien R, Paramasivan CN, Dewan PK. A Multi-Site Validation in India of the Line Probe Assay for the rapid diagnosis of Multi-Drug Resistant Tuberculosis directly from specimens. *PLoS ONE*. 2014, 9: e88626. doi:10.1371/journal.pone.0088626.
11. Bharti R, **Das R** , Sharma P , Katoch K, Bhattacharya A. MTCID: A database of genetic polymorphisms in clinical isolates of *Mycobacterium tuberculosis*. *Tuberculosis* 2012, 92:166-72.
12. Singh V, Gaur R, Mittal M, Biswas S, **Das R**, Girdhar BK, Bajaj B, Katoch VM, Kumar A and Mohanty KK. Absence of nucleotide-binding oligomerization domain-containing protein 2 variants in patients with leprosy and tuberculosis. *Int J Immunogenet* 2012,39:353-56.
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- isolates of *Mycobacterium tuberculosis* in India. **Indian J Med Res** 2009, 129: 108-110.
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