



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL

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Academic Profile:

PhD: Biotechnology (January, 2016), CSIR-Institute of Genomics and Integrative Biology (IGIB), Delhi India. **M. Sc:** Microbiology (July, 2008), Burdwan University, W.B, India. **B. Sc.:** Microbiology (June 2006), Burdwan University, W.B, India.

Research Interests:

The unifying theme of my current research is microbiome-environment / host interactions through metagenomics approaches. Microbiota has tremendous impact on environment and host health and can be engineered for the betterment of environment. My specific interests are mainly centered towards linking microbiota composition and function to host phenotypes or environmental factors, to assess biomarkers, disease diagnosis and prognosis. Apart from this I am also working on another “omics” approach, metabolomics, to correlate microbial functions to their own metabolites.

Selected Publications :

1. **Maji A**, Misra R, Mondal A, Kumar D K, Bajaj D, Singhal A, Arora G, Bhaduri A, Sajid A, Bhatia S, Singh S, Singh H, Rao V, Dash D, Shalini B, M.J Sarojini, Chaudhary, A, Gokhale R.S, and Singh Y. Expression profiling of lymph nodes in tuberculosis patients reveal inflammatory milieu at site of infection. Sci.Rep. 2015
2. Bhaduri A, Misra R, **Maji A**, Bhetaria PJ, Mishra S, Arora G, Singh LK, Dhasmana N, Dubey N, Viridi JS, and Singh Y. Mycobacterium tuberculosis cyclophilin A uses novel signal sequence for secretion and mimics eukaryotic cyclophilins for interaction with host protein repertoire. PLoS One. 2014
3. Arora G, Sajid A, Singhal A, Joshi J, Virmani R, Gupta M, Verma N, **Maji A**, Misra R, Baronian G, Pandey AK, Molle V, and Singh Y. Identification of Ser/Thr kinase and forkhead associated domains in Mycobacterium ulcerans: characterization of novel association between protein kinase Q and MupFHA. PLoS Negl Trop Dis. 2014
4. Singhal A, Arora G, Sajid A, **Maji A**, Bhat A, Virmani R, Upadhyay S, Nandicoori VK, Sengupta S, and Singh Y. Regulation of homocysteine metabolism by Mycobacterium tuberculosis S-adenosylhomocysteine hydrolase. Sci Rep. 2013