

Dr Jyoti Das (Parasite –Host Biology) Ph.d in cell biology and Immunology 2002 from Institute of Microbial Technology

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Research Interest: During PhD, my main focus was to study the combined effect of anti-inflammatory agents on nitric production during allergic airway inflammation and to study the immune evasion strategies adopted by M.tb in host phagocytes. I extensively worked on transcription regulation of NF-kB, which in turn regulates various effector molecules such as Granzyme B, an axis that dictates the outcome of asthma pathogenesis. Interestingly, these observations led us to decipher the molecular mechanism of Th17 cells differentiation. My laboratory is mainly focusing on cellular and molecular mechanism of malaria pathogenesis in murine model of malaria. For the first time, we reported that Mesenchymal stem cells (MSCs) play a role in the outcome of pathogenesis of malaria. Further, L-citrulline is a better alternative for treating hypoarginemia than that of L-arginine. Recently, We are able to find the new subsets of IL-10 producing cells which determine the susceptibility/ resistance to malaria.

Publications

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