



Sultan Tousif
32 - 05/11/1981

Laboratory Medicine and Medical Science

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India

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I am working on dynamics of T cell subsets in experimental murine model of tuberculosis infection . I have completed my PhD in Biochemistry & immunology from University of Calcutta, India. We have found that a molecule PD1 expressed on activated T cells and all professional APCs make resistant to host for *M.tb*. Infection. I am also worked on utility of nano curcumin in the treatment of tuberculosis infection. I am mainly motivated by innovative and challenging research problems beneficiary for the human beings. I can independently organize and plan realistically of my work, as well as, work with my collaborators, fetch efficaciously sources of knowledge, and prepare research projects and dossiers.

CURRENT RESEARCH

Topic	Methodology	Application
Dynamics of T cell subsets in experimental murine model of tuberculosis and utility of nano curcumin as therapy for tuberculosis infection.	<ul style="list-style-type: none"> <i>M. tb</i> infection of mice and estimation of Colony Forming Units (CFU) T cell proliferation assay by thymidine incorporation Flow cytometry: surface and intracellular staining of immune cells Detection of Cytokines by using Luminex micro bead based multiplexed assay Hepatotoxicity test 	<p>Development of vaccine better than BCG</p> <p>Development of new efficient drug for tuberculosis infection.</p>

UKZN main Publications

- Sultan Tousif and Gobardhan Das.** Curcumin nanoparticles enhance the therapeutic efficacy and reduce hepatotoxicity induced by the anti-tuberculosis drug isoniazid (under review)

Past Publications

- Sultan Tousif**, Yogesh Singh, Durbaka Vijaya Raghava Prasad, Pawan Sharma, Luc Van Kaer, and Gobardhan Das. PLoS One. 2011; 6(5): e19864.
- Sultan Tousif**, Ved Prakash Dwivedi Debapriya Bhattacharya, Luc Van Kaer, Jyoti Das, and Gobardhan Das (2011). J. Biol. Chem. 287: 2943-2947.
- Mohd. Moin Khan, Samit Chatterjee, Ved Prakash Dwivedi, Nishant Kumar Pandey, Yogesh Singh, **Sultan Tousif**, Neel Sarovar Bhavesh, Luc Van Kaer, Jyoti Das, and Gobardhan Das (2011). J. Biol. Chem. 287: 2830-2835.
- Singh Y, Kaul V, Mehra A, Chatterjee S, **Sultan Tousif**, Dwivedi VP, Suar M, Van Kaer L, Bishai WR, Das G. J Biol Chem. 2013 Feb 15;288(7):5056-61. doi: 10.1074/jbc.C112.439778. Epub 2012 Dec 11.
- Thakur RS, **Sultan Tousif**, Awasthi V, Sanyal A, Atul PK, Punia P, Das J. Eur J Immunol. 2013 May 14. doi: 10.1002/eji.201242882.
- Anamika Ghosh; **Sultan Tousif**; Debapriya Bhattacharya; Sachin Kumar Samuchiwal; Kuhulika Bhalla; Megha Tharad; Sushil Kumar; Prem Prakash; Purnima Kumar; Gobardhan Das; Anand Ranganathan Research Article | published 22 Jul 2013 | PLOS ONE 10.1371/journal.pone.0069949
- Sachin Samuchiwal, **Sultan Tousif**, Dhiraj Singh, Arun Kumar, Anamika Gosh, Kuhulika Bhalla, Sushil Kumar, Prem Prakash, Maitree Bhattacharyya, Gobardhan Das, and Anand Ranganathan. IAI00921-13(Under Review).

Future Interests

Research in Tuberculosis pathogenesis and their drug discovery,
Research of vaccine development for tuberculosis

Extra Interests

Playing cricket and Travel