Sudhasini Panda

PhD Scholar

Contact

3026, Department of Biochemistry, All India Institute of Medical Sciences, Ansari Nagar, New Delhi, India – 110029.
9560249190
sudhasini18@gmail.com

Research scholar with hands-on experience in the field of immunology in tuberculosis and diabetes. Key research interest in immune mechanisms in infectious diseases like tuberculosis and HIV, Evasion strategies of infectious pathogens, Role of host factors in pathogenesis of infectious diseases
Proficient in immunological techniques, flow cytometry, cell cultures, bacterial cultures, HPLC, molecular cloning etc. Comfortable collaborating with team members and working independently.

Education

PhD: Biochemistry, August 2016 – Present. All India Institute of Medical Sciences,

Master of Science: Biochemistry, August 2014 – July 2016. All India Institute of Medical Sciences.

Bachelor of Science: Biochemistry, July 2011 – May 2014. University of Delhi

Affiliations

Lifetime member, Indian Immunology Society
Lifetime member, Association of Clinical Biochemists of India

Key Skills

PCRs, Flow Cytometry, Cell Cultures, PBMC co-cultures, Bacterial Cultures, Western blotting, ELISA, ELISPOT, HPLC, Basic molecular techniques. Computational Tools: FlowJo, GraphPad Prims

Work Experience

August 2016 – Present
PhD Scholar, All India Institute of Medical Sciences

- Role of hyperglycemia on macrophage effector function in pathophysiology of pulmonary tuberculosis.
- Influence of different grades of hyperglycemia on innate immune response in neutrophils in pathophysiology of active tuberculosis

August 2014 – July 2016
Master of Science, All India Institute of Medical Sciences

- Study of vitamin D receptor (VDR) and cathelicidin expression and their correlation with Fok1 VDR polymorphism in Tuberculosis
- Study of the expression of nitric oxide and inducible nitric oxide synthase (iNOS) and their correlation with iNOS gene polymorphic variants in tuberculosis patients and controls
- Role of iron hemeostasis and its regulatory molecules in tuberculosis.

Publications

- **Panda S**, Tiwari A, Luthra K, Sharma SK, Singh A. Association of Fok1 VDR polymorphism with Vitamin D and its associated molecules in pulmonary tuberculosis patients and their household contacts. Sci Rep. 2019 Oct 24;9(1):15251. doi: 10.1038/s41598-019-51803-8. PMID: 31649297; PMCID: PMC6813333.
- **Panda S**, Tiwari A, Luthra K, Sharma SK, Singh A. Status of vitamin D and the associated host factors in pulmonary tuberculosis patients and their household contacts: A cross sectional

Accomplishments

- Newton Bhabha Fellow 2019, Imperial college London, United KIngdom
- APFCB Travel Award in the year 2016 at 14th Asia Pacific Federation of Clinical Biochemistry
- FIMSA Travel award in the year 2018 at The Federation of Immunological Societies of Asia-Oceania Congress (FIMSA 2018)
- CSIR-UGC NET examination 2017.
- GRE Score of 306/340, TOEFL score of 92/120.
- Awarded Sri Chaitanya Award in the year 2011 for young talented scientist.

study. J Steroid Biochem Mol Biol. 2019 Oct;193:105419. doi: 10.1016/j.jsbmb.2019.105419. Epub 2019 Jun 27. PMID: 31255688.

- **Panda S**., Faisal, S., Kumar, K. *et al.* Role of Regulatory Proteins Involved in Iron Homeostasis in Pulmonary Tuberculosis Patients and Their Household Contacts. *Ind J Clin Biochem* (2021). https://doi.org/10.1007/s12291-020-00947-w
- Archana Singh, **Sudhasini Panda**, Diravyaseelan M, et al. Role of hyperglycemia on macrophage effector function in pathophysiology of pulmonary tuberculosis. BMC Infectious Diseases 2020, 20(suppl 1):324
- Archana Singh, **Sudhasini Panda**, Ambrish Tiwari, Kalpana Luthra, S K Sharma. Vitamin D modulates innate immunity in pulmonary tuberculosis. J Immunol, 2020,204 (1 supplement) 227.3