

DR. ABDUS SABUR

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Area of interest and expertise:

Molecular Biology and Genomics; Biotechnology; Parasitology; Infectious disease and immunology; Host Pathogen Interaction

Academic Credentials:

- **Ph.D. (Biological Sciences)** Academy of Scientific and Innovative Research, India 2019
- **M.Sc. (Biotechnology)** Aligarh Muslim University, India, 2012
- **B.Sc. (Botany)** Aligarh Muslim University, India, 2010

Achievements and Awards

- UGC-Junior Research Fellow at Indian Institute of Chemical Biology, 2012-2014.
- UGC-Senior Research Fellow at Indian Institute of Chemical Biology, 2014-2017.
- Qualified GATE, 2012 (Life Sciences)
- GCRF, UK funded Post doctoral Research Associate at Indian Institute of Chemical Biology, 2019.

Publications

1. Asad, M., **Sabur, A.**, Kamran, M., Shadab, M., Das, S., and Ali, N. (2021). Effector functions of Th17 cells are regulated by IL-35 and TGF- β in visceral leishmaniasis. The FASEB Journal 35, e21755.
2. Didwania, N., Ejazi, S.A., Chhajer, R., **Sabur, A.**, Mazumder, S., Kamran, M., Kar, R., Pandey, K., Das, V.N.R., and Das, P. (2020). Evaluation of cysteine protease C of Leishmania donovani in comparison with glycoprotein 63 and elongation factor 1 α for diagnosis of human visceral leishmaniasis and for posttreatment follow-up response. Journal of Clinical Microbiology 58, e00213-00220.
3. **Sabur, A.**, Bhowmick, S., Chhajer, R., Ejazi, S.A., Didwania, N., Asad, M., Bhattacharyya, A., Sinha, U., and Ali, N. (2018). Liposomal Elongation Factor-1 α Triggers Effector CD4 and CD8 T Cells for Induction of Long-Lasting Protective Immunity against Visceral Leishmaniasis. Front Immunol 9, 18.
4. **Sabur, A.**, Didwania, N., Das, S., Asad, M., Kamran, M., Ejazi, S.A., and Ali, N. Vaccine Formulation of T Cell Epitope Selected Multivalent Fusion Antigen in GLA-Cationic Liposome Imparts Excellent Anti-leishmanial Immunity. **(Manuscript in preparation)**

5. **Sabur, A.**, Asad, M., and Ali, N. (2016). Lipid based delivery and immuno-stimulatory systems: Master tools to combat leishmaniasis. *Cell Immunol* 309, 55-60.
6. Asad, M., **Sabur, A.**, Shadab, M., Das, S., Kamran, Didwania, N., and Ali, N. (2019) EB1-3 chain of IL-35 along with TGF- β synergistically regulate anti-leishmanial immunity. *Front Immunol* 10, 616.
7. Didwania, N., Shadab, M., **Sabur, A.**, and Ali, N. (2017). Alternative to Chemotherapy- The Unmet Demand against Leishmaniasis. *Front Immunol* 8, 1779.
8. Maji, M., Mazumder, S., Bhattacharya, S., Choudhury, S.T., **Sabur, A.**, Shadab, M., Bhattacharya, P., and Ali, N. (2016). A Lipid Based Antigen Delivery System Efficiently Facilitates MHC Class-I Antigen Presentation in Dendritic Cells to Stimulate CD8 (+) T Cells. *Sci Rep* 6, 27206.
9. Ejazi SA, Bhattacharyya A, Choudhury ST, Ghosh S, **Sabur A**, Pandey K, et al. (2018) Immunoproteomic Identification and Characterization of Leishmania Membrane Proteins as Non-Invasive Diagnostic Candidates for Clinical Visceral Leishmaniasis. *Sci Rep* 8(1):12110.
10. Das A, Asad M, **Sabur A**, Didwania N, Ali N. (2018) MPLA based cationic liposome facilitates vaccine induced expansion of polyfunctional T cell immune responses against visceral leishmaniasis. *ACS Applied Biomaterials.*, 1 (4), pp 999–1018

Books Chapters

1. **Sabur, A.**, and Ali, N. (2015) Vaccine Biology of Leishmania Infection. In *Leishmania: Current Biology and Control*. Ed S. Adak and R. Datta, *Caister Academic Press*, UK; 10:167-192.
2. Chakraborty, J., **Sabur, A.**, Ali, N., and Goswami R.P., *Visceral Leishmaniasis: a Current Problems and Prospect of an Effective Vaccine*. In *Adult Immunization 2014*. Ed A. Muruganathan, D. Mathai and S. K. Sharma, Association of Physicians of India; 2014. 34:254-259.

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