Aims and Objectives
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The purpose of this work was to contribute to the discovery of new drug target by functionally characterize the \textit{lspA} gene. It will support in the advance development of antimycobacterial agents. The aim of this study was to determine the role of \textit{lspA} gene in the biology and pathogenesis of \textit{M. tuberculosis} and identify its promoter for the regulation of this gene. The objectives of this thesis were:

- Cloning and expression of \textit{lspA} gene (Rv1539) of \textit{M. tuberculosis H37Rv} Strain.

- Purification of the LspA recombinant protein and raising antibody against the recombinant LspA protein.

- Overexpression of LspA in \textit{M. tuberculosis H37Rv} by cloning in a shuttle vector.

- Assaying the immunologic and pathogenic effect of the recombinant constructs in mouse model.