Aims and Objectives
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The objective of current study deals with the elucidation of the role of PKC isoforms in CD40 signaling in uninfected and *Leishmania major* infected macrophages and how these isoforms can be targeted to devise an anti-leishmanial immunotherapy. The main objectives are following:-

1. To identify CD40 activated PKC isoforms in uninfected and *Leishmania major* infected BALB/c peritoneal macrophages.

2. To study the role of CD40 activated PKC isoforms in differential regulation of MAP kinases (p38MAPK and ERK1/2).

3. To address the role of specific PKC isoforms in CD40 induced proparasitic and antiparasitic functions in *Leishmania major* infection.

4. To study the possible mechanism of regulation of CD40 activated PKC isoforms.