

- One of the greatest challenges in infectious disease research has been decreasing the morbidity and mortality associated with parasitic diseases.
- This paper describes the use of integrated *in-silico* and *in-vitro* approaches to discover repurposable FDA approved drugs to treat neglected diseases.
- The most severe form of leishmaniasis caused by *Leishmania donovani*, is often fatal if left untreated.
- To discover new therapeutics, our studies have been focused on drug repurposing.
- This manuscript describes target discovery pipeline to understand mechanism of action of Lansoprazole and Posaconazole in *Leishmania*.