Chagas disease treatment: From new therapeutical targets to drug discovery and repositioning

Aims and Scope:

Chagas disease is a major health concern in the Americans and its causative agent is the parasite Trypanosoma cruzi. The two drugs approved for the treatment have limited efficacy and severe side effects. This highlights the need for the development of therapeutic alternatives and the identification of novel drug targets.

The current proposal includes the main aspects in the discovery of new treatments for Chagas disease. The issue will cover the latest advances in drug design and reutilization of old drugs, called drug repositioning, in addition to novel and promising therapeutical targets discovered on the last years.

Topics to be covered (main bioactive component):

1. Revision of different proteins validated as drug targets.
2. Revision of different metabolic pathways as drug targets.
3. Update on drug discovery, from de novo synthesis to drug repositioning.

Keywords: Chagas disease, Trypanosoma cruzi, Treatment, Drug repositioning, Drug target, Drug design

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