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Challenges in the chemotherapy of Chagas disease: Looking for possibilities related to the differences and similarities between the parasite and host

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Abstract

Almost 110 years after the first studies by Dr. Carlos Chagas describing an infectious disease that was named for him, Chagas disease remains a neglected illness and a death sentence for infected people in poor countries. This short review highlights the enormous need for new studies aimed at the development of novel and more specific drugs to treat chagasic patients. The primary tool for

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Chemotherapy of this **disease** is still very unsatisfactory, being based in nitrofurans ... that have raised the **possibility** of radical parasitological cure in chronically infected ... Taking in account the intracellular character of *T. cruzi* **parasitism**, ... of acute **Chagas disease**, but marked **differences** in susceptibilities among *T. cruzi* ...

Usefulness of PCR-based assays to assess drug efficacy in Chagas ...

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Chagas disease is an important cause of end-stage cardiomyopathy in Latin ... **between parasite** and **host antigens** (Kalil & Cunha-Neto 1996, Girones et al. **possibilities** in the diagnosis and follow-up assessment of **chemotherapy** (Moser et al. ... early detection of treatment failure when **comparing** drug efficacy, tolerance, ...

Nitroheterocyclic compounds are more efficacious than CYP51 ...

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Chemotherapy of Chagas' disease (American trypanosomiasis), a **parasitic** ... and social **challenge**, as the drugs currently available, nitrofurans (nifurtimox; Bayer) ... of the **disease** and can also produce serious toxic effects in the **host** (7, 8, 24, 26). rank tests (log-rank and Peto-Peto-Wilcoxon) were used to **compare** them.

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