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Drug Resistance In Leishmania Parasites

Variation in the efficacy of drugs in the treatment of leishmaniasis is frequently due to differences in drug sensitivity of *Leishmania* species, the immune status of the patient, or the pharmacokinetic properties of the drug. Most leishmaniasis is zoonotic, where acquired drug resistance is not an important consideration.

Drug Resistance in Leishmaniasis

One of the main problems concerning therapeutic tools for the treatment of parasitic diseases, including leishmaniasis, is that some field parasites are naturally resistant to the classical drugs; additionally, current therapies may select parasites prone to be resistant to the applied drugs.

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Recently her interests have been focused towards the study of parasite metabolism and membrane transporters essential for parasite survival and involved in drug resistance, and the mechanisms involved in cellular differentiation and parasite-host interaction in the Leishmania model. Additionally she has characterized natural products and target oriented designed compounds as potential therapeutic agents.

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Drug Resistance in Leishmania

Parasites: Consequences ...

For more than 60 years, treatment of leishmaniasis has centered around pentavalent antimonials (Sb v).

Widespread misuse has led to the emergence of Sb v resistance in the hyperendemic areas of North Bihar.

Other antileishmanials could also face the same fate, especially in the anthroponotic cycle.

Drug Resistance in Leishmaniasis - PubMed Central (PMC)

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However, an intriguing point to consider is the description of Leishmania parasites resistant to SSG, even in cases in which parasites have not been exposed to the drug . Antimony is a heavy metal whose action against Leishmania shares characteristics with the related heavy metal arsenic.

Drug resistance and treatment failure in leishmaniasis: A ... pentavalent antimonial [Sb(V)] drugs for VL, such as sodium stibogluconate, is threatened by the development of drug re-sistance. In addition, there is increasing awareness that drug treatment can be complicated by variation in the sensitivity of Leishmania species to drugs, variation

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Drug Resistance in Leishmaniasis

Which of these pathways will evolve in the pathogen does not only depend on the characteristics of the drug, but also on the pathogen's general biological traits, resulting in some pathogens being inherently more likely to generate drug resistance than others. Leishmania parasites, for example, are experts in manipulating gene dosage through massive aneuploidy (Downing et al., 2011; Mannaert et al., 2012) and the formation of circular extrachromosomal episomes.

Drug resistance in vectorborne parasites: multiple actors ...

In general, mechanisms of drug resistance in pathogenic parasites

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depend on a variety of mechanisms consisting of augmented drug efflux, reduced drug uptake, mutation events in targeted enzymes, metabolic upregulation, and deficiency of the target sites for antiparasitic drugs, etc. Apart from these issues, various genetic mechanisms including gene deletions, gene mutations and, most importantly, chimerisation of genes also play a crucial role in drug resistance mechanisms .

Drug Resistance in Protozoan Parasites: An Incessant ...

The physiological events associated with drug-resistance in Leishmania include changes in P-gp expression, parasite infectivity (lipophosphoglycan, acid phosphatase and meta-1 expression), incorporation of metabolites fundamental for the

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parasite survival (folates and nucleosides), xenobiotics conjugation and extrusion (trypanothione and Cyb expression), intracellular metabolism (dihydrofolate reductase-thymidylate synthetase, N-acetylglucosamine-1-transferase and pterin transferase), host ...

Physiological consequences of drug resistance in ...

Therefore, here we examine the concept of fitness cost in Leishmania under the idea of drug resistance or chemotherapeutic failure and analyze whether the physiological changes expressed by drug ...

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Specifically, discussions of the use of genomics and transcriptomics to

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reveal drug resistance mechanisms in these highly complex parasites, as well as the use of bioinformatics to query the Leishmania genome for potential new targets for drug discovery or vaccine candidates are timely.

Drug Resistance in Leishmania Parasites: Consequences ...

Host factors such as decreased drug uptake, increased efflux mechanism, reduced concentration inside the parasite, inhibition of drug activation, inactivation of active drug and gene amplification are some important mechanisms responsible for the development of resistance in this group.

Drug resistance in leishmaniasis:
Newer developments

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Leishmaniasis is a complex disease, with visceral and cutaneous manifestations, and is caused by over 15 different species of the protozoan parasite genus *Leishmania*.

Drug resistance in leishmaniasis. Drug-Resistant *Leishmania* ” and “ Functional Analysis of *Leishmania* Membrane (Non-ABC) Transporters Involved in Drug Resistance ” by Adriano C. Coelho & Paulo C. Cotrim, and Scott Landfear summarizes laboratory discoveries on the functions of *Leishmania* ABC and non-ABC transporters in drug resistance, respec-

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Drug resistance represents one of the main problems for the use of chemotherapy to treat leishmaniasis. Additionally, it could provide some advantages to Leishmania parasites, such as a higher capacity to survive in stress conditions. In this work, in mixed populations of Leishmania donovani parasites, we have analyzed whether experimentally resistant lines to one or two combined anti ...

Fitness of Leishmania donovani Parasites Resistant to Drug ...

Drug resistance is a fundamental factor in treatment failure in diseases like leishmaniasis, although additional factors also play a role in this phenomenon. This volume is the second edition of a well-received book

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that provides a comprehensive update on the pathology of the disease, as well as on the concept of parasitic drug resistance, its ...

Drug Resistance in Leishmania Parasites - Consequences ...

Drug Resistance in Leishmania. ... An isolate from a patient with untreated self-healing cutaneous disease was drug resistant. Using RAM, parasite drug sensitivity can be quantified apart from ...

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