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## Molecular Mechanisms And Possible

### Treatments

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Drug Resistance in Leishmania  
Parasites: Consequences ...

Drug resistance is a fundamental  
factor in treatment failure in diseases  
like leishmaniasis, although additional

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Consequences Molecular  
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factors also play a role in this phenomenon. This volume is the second edition of a well-received book that provides a comprehensive update on the pathology of the disease, as well as on the concept of parasitic drug resistance, its molecular basis, consequences and possible

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One of the main problems concerning  
therapeutic tools for the treatment of  
parasitic diseases, including

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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. These features are (at least partially) responsible for the disappointing persistence of the disease and

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resultant deaths worldwide.

## Molecular Mechanisms And Possible

### Treatments

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Although this class of drugs has been  
used for over 60 years for  
leishmaniasis treatment, it is only in



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Over the past 2 years that the mechanisms of action and resistance have been identified, related to drug metabolism, thiol metabolism, and drug efflux.

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Clinical Microbiology ...

*Page 17/41*

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This is now considered to be due to acquired resistance. Although this class of drugs has been used for over 60 years for leishmaniasis treatment, it is only in the past 2 years that the mechanisms of action and resistance have been identified, related to drug metabolism, thiol metabolism, and

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Drug resistance in leishmaniasis  
Shyam Sundar, an author on the study  
from the Institute of Medical Sciences  
of Banaras Hindu University, told  
SciDev.Net that the resistance of the

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Leishmaniasis parasite, *Leishmania donovani*, to sodium stibogluconate – a common drug used to treat the disease – is widespread in India.

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Leishmaniasis drug resistance  
mechanism exposed - SciDev ...

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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

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Leishmania parasites, we have analyzed whether experimentally resistant lines to one or two combined anti ...

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Fitness of Leishmania donovani  
Parasites Resistant to Drug ...

It has been suggested that decreasing

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the intracellular thiol concentrations through thiol depletors may increase the leishmanicidal action of drugs and thus reverse parasite resistance .

Overexpression of the membrane-bound ATP-binding cassette (ABC) transporters on the surfaces of leishmanias is another mechanism of

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Drug Resistance in Visceral  
Leishmaniasis

Furthermore, the selection of resistant  
parasites carrying genetic mutations  
that lessen the parasite's response to



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Drugs may emerge upon mass drug administration. Leishmania has an intricate life cycle, and one of the developmental forms, the amastigote, dwells within immunological cells of the mammalian host, which adds to the challenge of accessing the parasites with specific drugs.

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Drug resistance and treatment failure  
in leishmaniasis: A ...

Overall, these results provide the first  
evidence that *Leishmania* parasites  
can acquire drug resistance that  
contributes to treatment failure in

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Cutaneous leishmaniasis. They also indicate that Glucantime-resistant *L. tropica* isolates are now frequent in Iran. Additional work is needed to understand the nature of the resistance mechanisms, with the goal to improve diagnosis and treatment of resistant leishmaniasis.

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Drug-Resistant *Leishmania tropica*  
Parasites Detected in ...

Drug susceptibility is defined as the response of a certain *Leishmania* strain/isolate to a standard drug under defined in vitro conditions, whereas

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Drug sensitivity implies measuring the response of the strain/isolate to a standard drug in vivo using predefined doses, dose-schedules, and including pharmacokinetics and immune status of the host.

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Evaluating drug resistance in visceral leishmaniasis: the ...  
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Drug Resistance in Leishmania  
Parasites: Consequences ...

Resistance mechanisms highlighted in this review include: 1. Decrease of drug uptake because of the loss of a transporter required for uptake. This decrease contributes to resistance to

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arsenicals and diamidines in African trypanosomes. 2. The export of drugs from the parasite by P-glycoproteins and other traffic ATPases.

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New mechanisms of drug resistance in parasitic protozoa



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Common adaptations include: target enzyme mutations reducing interactions with the drug (antifolates in malaria ); reduced drug uptake (diminazene aceturate in *T. b. brucei* or antimonials in *L. donovani* ); up-regulation of a metabolic bypass (methotrexate in *Leishmania* ); failing

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to activate a prodrug (nifurtimox in *T. cruzi* ); increased drug efflux (chloroquine in malaria ); and even the failure to produce the target (amphotericin B in *Leishmania* ).

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Drug resistance in protozoan parasites

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| Emerging Topics... Molecular

In recent years, there has been an increase in Leishmania drug resistance and treatment failure.

Scientists, including us, are searching for clues to better understand how these parasites survive...

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A flesh-eating parasite carried by dogs is making its way ...

↳ 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

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Classical drugs; additionally, current therapies may select parasites prone to be resistant to the applied drugs.

These

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Parasites on Apple Books

*Page 37/41*

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The protozoan parasite *L. donovani* resides inside macrophages as amastigotes and inflicts a potentially lethal disease visceral leishmaniasis (VL). Due to absence of a vaccine, chemotherapy with antimonials, amphotericin B, miltefosine or paromomycin remains the only option

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The drug resistance mechanisms in Leishmania donovani are ...

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