OMICS Group Conferences
Accelerating Scientific Discovery

4th World Congress on
Bioavailability and Bioequivalence:
Pharmaceutical R & D Summit
May 20-22, 2013 DoubleTree by Hilton Beijing, China

In vitro susceptibility to antimonials and amphotericin B of Leishmania infantum strains isolated from dogs in a region lacking drug selection pressure

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Abstract

The aim of this study was to evaluate the susceptibility to anti-leishmanial agents of 24 strains isolated from dogs living in the urban area of Alger lacking drug selection pressure. Two different Leishmania infantum zymodemes, MON-1 and MON-281, were identified in these dogs. The in vitro susceptibility to the main forms of antimonial and amphotericin were assessed on promastigote and amastigote life stages in culture. The results obtained for both parasite life stages were concordant whatever the molecule tested. Moreover, our data showed that isolates belonging to the relatively rare zymodeme of L. infantum, MON- 281, were less susceptible to antimony than MON-1, when at the same time there was no significant difference for amphotericin B.

Biography

Ait-Oudhia Khatima obtained his Ph.D. at the age of 30 years at the University of Montpellier I in France. She is assistant Professor at the National Higher School of veterinary. She is responsible for the module "Contagious and Infectious Diseases." She has published over 10 articles in reputable journals and has served as a member of the editorial board of renown.