CHARACTERIZATION OF ANTIOPHIDIAN AND ANTILESHIMANIC PROPERTIES OF THE EXTRACTS OF BACCHARIS SPECIMENS

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We analyzed the biological effect of Baccharis species , commonly used as folk medicine for several organic disorders, mainly against inflammatory disorders. In this work we showed the antiophidian and antileishimanic properties of the Baccharis extracts. The extracts from leaves of B. regnelli, B. uncinella and B. microdonta were prepared using different organic solvents, and they decreased the myotoxic and edematogenic effects induced by BthTx-I or the whole venom as well as the hemorrhagic effect. The extracts were incubated with BthTx-I or whole venom. The effect of organic extract of Baccharis on the Leishmania amazonensis growth rate was done by dilution of these extracts to the desired concentration with RPMI-1640 immediately before starting the experiments and added to the parasite the cell culture as well as after the incubation time. It was observed a strong reduction of the viability and decrease of the parasite growth rate. Any extracts did not show effects against Gram positive or Gram negative bacterial strain. The DCM extract from B. regnelli showed interesting effects, probably due to the presence of terpenoids and flavonoids.