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Anti-inflammatory activity of *Muntingia calabura* fruits.

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Abstract

Muntingia calabura fruit possess antioxidant activity. However, their anti-inflammatory activity has not been investigated so far. The aim of this study, therefore, was to evaluate the anti-inflammatory potential of the fruits of methanolic extract of *M.calabura* in adult male wistar albino rats after intraperitoneal administration (100,200 and 300 mg/kg i.p). This was done using the carrageenan induced edema of the hind paw of adult male wistar albino rats. The administration of the fruit extract inhibited the carrageenan induced paw edema with different capacity and time course over a period of 4 hrs. The anti-inflammatory activity was compared with indomethacin (10mg/kg), a nonsteroid anti-inflammatory drug, as standard. Acute toxicity was investigated and the results indicated no abnormalities in the behaviour and lethality by the extract up to 1000 mg/kg. The methanolic fruit extract of *M.calabura* produced dose dependent significant reduction in carrageenan induced paw edema in rats by 24.36%, 44.14% and 62.43% respectively and the standard drug reduced by 80.48 %. Therefore, these pharmacological results clearly support traditional folkloric application of *M.calabura* fruits in the control and/or pain, inflammatory illness as well as an antioxidant agent.

Biography

K.Preethi has completed her Ph.D at the age of 34 years from Bharathiar University.She has published more than 5 papers in reputed journals.She worked as lecturer in the department of Microbiology and Biotechnology in two self financing colleges. She has 9 years of experience in teaching and young in the field of research. Her area of interest in antioxidants. She has worked for the antioxidant activity in bacteria and fungi. Isolating new type of pigmented bacteria and fungi and looking for its bioactive components and their applications. She is doing a project in DRDO-BU CLS in fungalantioxidantswithafundof10lakhs.

K.Keerthana, M.Phil scholar working under the guidance of Dr.K.Preethi, in the bacterial antioxidants.

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