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In vivo analgesic activity of different organic extracts of *Rhizophora stylosa* leaf

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Pain and inflammation are the main two intolerable health issues faced by healthcare professionals, but the use of modern medicine has associated with unwanted side effects like gastrointestinal bleeding, nephrotoxicity and cardiovascular adverse effects. The side effects have prompted the discovery of novel analgesic alternatives from the natural sources. Rhizophora genus has been reported for its wide range of therapeutics uses; however there are limited scientific data on its therapeutic applications of *Rhizophora stylosa*. An attempt has been made to study the analgesic property of *Rhizophora stylosa* leaves. In this present investigation, different organic extracts of R. stylosa leaves were prepared and evaluated for their analgesic activity by acetic acid induced writhing method and tail immersion method. The powder of the R. stylosa leaf was extracted using organic solvent in order of increasing polarity i.e.: petroleum ether, chloroform, and methanol by hot percolation method using soxhlet apparatus. The crude extracts were subjected to the biological evaluation at two different doses [100 mg/kg and 250 mg/kg (bw)] in animal model using Swiss albino mice. All the data was statistically analyzed by using one way ANOVA followed Tukey test. From the study, it has been observed that chloroform extracts exhibited good analgesic activity in comparison to other extracts. It has been concluded that the different organic extract of *Rhizophora stylosa* promised peripheral analgesic ($P<0.05$) effect with dose dependent manner except methanol extract and all the organic extracts were devoid of central analgesic activity.

Biography

Gopal Natesan has completed his Doctoral degree (PhD) in Pharmaceutical Chemistry from Hamdard University (Jamia Hamdard) New Delhi, India in 2000 and currently serving as Professor of Medicinal Chemistry and Deputy Dean of Academic Affairs in Faculty of Pharmacy, MAHSA University, Malaysia. His research focuses on the synthesis of newer small chemical entities, quinazolinones heterocyclic pharmacophore and their preliminary screening in both in vivo and in vitro models mainly focusing on pain & inflammation and also for newer microbial agents. He has published >40 articles in indexed journals and presented >80 papers in conferences and received number of honors, recently received "Young Scientist Award" in 2013 by International Society of Nature & Health Care Inc, USA and University of Colombo & University of Kelaniya, Sri Lanka. He was invited speaker at international scientific meetings and conferences and serves as Reviewer for several scientific international journals and also as Editorial/Advisory Board Member of various journals.

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