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FAGONIA ARABICA. polyphenols: Dietary bioactive compounds in relation to their physiological functions**Abdullah Ijaz Hussain***Government College University, Faisalabad, Pakistan*

Fagonia arabica belongs to family Zygophyllaceae is a medicinal plant, widely distributed in the desert areas of the world including Saudi Arabia, Pakistan, India and South Africa. The present review aims to explore the published information on the traditional uses, ethnobotanical knowledge, phytochemistry and various biological activities like antioxidant, antimicrobial, thrombolytic activities and anticoagulant effects of Fagonia arabica with critical analysis on the gaps and future perspectives. Fagonia arabica plant has been reported to have a wide range of traditional uses in sore mouth, smallpox, hematological, neurological, endocrinological, inflammatory, cooling agent in stomatitis, vertigo and endothermic reaction in the body. Several bioactive constituents including glycosides, flavonoids, terpenoids, saponins, alkaloids and trace elements were recorded from Fagonia arabica plant. The isolation and identification of two flavonoid glycosides (kaempferol-7-O-rhamnoside and acacetin-7-O-rhamnoside) were also reported. Fagonia arabica has been studied for its wide range of biological activities, which include antioxidant, antimicrobial, cardioprotective and anticoagulant. It is apparent from the literature that Fagonia arabica plant possesses a wide range of medicinal and pharmacological uses and has been studied for its various pharmacological activities and medicinal applications. Critical analysis reveals that the plant has the huge potential for pharmaceutical and pharmacological applications.

Biography

Abdullah Ijaz Hussain completed his education from school of Pharmaceutical Sciences, University Sains Malaysia, Penang Malaysia then he completed his Ph.D. in Analytical Chemistry from University of Agriculture Faisalabad Pakistan. Soon after completing his Ph.D. he is an assistant professor at Govt. College University Faisalabad, Pakistan. After that he promoted to Associate Professor at GC University Faisalabad and currently he is a professor at Natural product and synthetic chemistry lab from the department of chemistry at Government College University, Faisalabad, Pakistan. His research interest focuses on chemistry, analytical chemistry, biotechnology, food microbiology, pharmacology.