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Euphorbia neriifolia in Rheumatoid Arthritis: A Systematic Review of Anti-Inflammatory

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ABSTRACT


Euphorbia neriifolia Linn. (EN), a valuable plant from the large Euphorbiaceae family, is predominantly found in rocky and hilly regions of the Indian subcontinent. It is traditionally used in the treatment of tumors, abdominal swelling, bronchial infections, hydrophobia, earaches, coughs, colds, respiratory disorder, skin lesions, reptile bites, genital infection, hypersplenism, and hypo pigmentation.

Numerous in vitro and in vivo studies have investigated the pharmacological properties of E. neriifolia, demonstrating its potential as a cellular protector, hypoglycemic agent, immunostimulant, anti-edema, anti-rheumatic, skin regenerator, anti-atherogenic, anxiolytic, anti-epileptic, neuroleptic, anti-coagulant, pain suppressant, anti-reproductive agent, natriuretic, antibacterial, anti-diarrhoeal and chemopreventive.

Various parts of E. neriifolia or its whole plant extracts, along with isolated compounds, have been scientifically evaluated through in vivo and in vitro experiments. These studies highlight its efficacy in anesthetic, immunostimulant, anti-edema, anti-rheumatic, skin regenerator, anti-atherogenic, anxiolytic, anti-epileptic, neuroleptic, anti-coagulant, pain suppressant, anti-reproductive agent, natriuretic, antibacterial, and wound-healing applications, as well as in neutralizing scorpion venom.

The chemical profile of this organism contains compounds like Cardiac glycoside, steroidal lactone, terpenoid derivative, triterpenoid alcohol, terpene derivative, cyclopropyl sterol, terpenoid alcohol, glycoprotein, diterpene esters, acylated terpenoid, plant sterol and natural glycoside. These substances have great potential for treating diseases, but more research is needed to improve how we extract them and fully understand how they work in the body.

Key words: Euphorbia Neriifolia, Microscopic, Pharmacological activity, Medicinal Plant

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