

An Analysis of *Ricinus Communis L.* Reveals its Diverse Phytochemicals and Wide-Ranging Pharmacological Properties

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Abstract: *The maintenance of human health depends heavily on medicinal herbs. There are over 7,500 species and 300 genera in the broad family Euphorbiaceae. The castor bean plant, Ricinus communis L., is one of the most valuable traditional and medicinal plants for promoting a society free of illness. The castor bean plant exhibits a range of beneficial properties, including antifertility, antiimplantation, antinociceptive, anticancer, antioxidant, immunomodulatory, hepatoprotective, antidiabetic, antiulcer, antimicrobial, insecticidal, molluscicidal and larvicidal, bone regeneration, central analgesic, antihistaminic, antiasthmatic, cytotoxic, lipolytic, antiinflammatory, and wound healing properties. Furthermore, the components found in this plant have no negative effects on the body and are helpful for contraception. The goal of this study is to examine the pharmacological properties, phytochemical components, and potential applications of the R. communis L. plant.*

Keywords: Phytochemicals, Pharmacological properties, Diverse compounds.