

Review of: "Unravelling the Phytochemical and Pharmacognosy Contour of Traditional Medicinal Plant: Pterocarpus Marsupium Roxb"

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Potential competing interests: No potential competing interests to declare.

Abstract section

1. The abstract section needs a lot of improvement. I therefore suggest that the abstract should be rewritten in the following pattern to illuminate on key finding from this study.
 - a. Brief introduction
 - b. Aim and objectives
 - c. Key and most important results
 - d. Conclusion and contribution to knowledge.

Main body

Please kindly recast "Earlier phytochemical investigation reports revealed that *P. marsupium* Roxb contains alkaloids, proteins, carbohydrates, coumarins, gums, mucilage, fixed oils, anthraquinone glycosides, saponin glycosides, tannins, flavonoids, and phenolic compounds"

Phytoconstituents

Please kindly recast "Apart from these, there are some primary phytoconstituents such as epicatechin, propterol, marsupin, pterostilbene, resorcinol, trans-stilbene, liquiritigenin, isoliquiritigenin, isoliquiritin, aglycone, pterosupin, catechin, kinotannic acid, kinoin, kino red, β -eudesmol, carsupin, marsupial, marsupinol, pentosan, p-hydroxybenzaldehyde that were obtained from the heartwood and root"

Antioxidant activity

Please kindly recast "This plant extract showed not only hypoglycaemic activity but also exhibited a promising antioxidant effect. The in vitro antioxidant activity of the ethyl acetate leaf extract of *P. marsupium* was studied by hydroxyl radical scavenging activity, ABTS assay, FRAP assay, NO radical scavenging activity, TRAP assay, reducing power assay, and hydrogen peroxide (H₂O₂) radical scavenging activity. "

Please kindly recast "Among these two extracts, acetone: isopropyl alcohol (1:1) showed a lesser IC₅₀ value (36.5

µg/mL), whereas the ethanol extract showed an IC₅₀ value of 61.94 µg/mL. In addition, they highlighted that phytoconstituents such as flavonoids, alkaloids, glycosides, phenols, steroids, coumarins, tannins, and terpenoids are responsible for its antioxidant activity”

Discussion section

1. The author need to relate the results obtained during this study with relevant discussion and compare the results obtained to previously results from other researchers
2. The manuscript is based on a very good concept methodologically executed but poorly written. The methods failed to align with the result with the discussion. Authors need to surrender this paper to serious editorial review by an English expert or language skilled colleague. This would illuminate the manuscript and makes it more comprehensive.