

# 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.

## Reviewer Comments:

**A review article might have great ideas but need to be reorganized or carefully rewritten. Note the following and suggest improvements:**

## Title and Authors:

1. The title clearly reflects the focus of the study, providing a glimpse of the plant, Pterocarpus Marsupium Roxb, and its phytochemical and pharmacological aspects.
2. Authors, affiliations, and their contributions are well-delineated, fostering transparency and accountability.

## Abstract:

3. Concisely summarizes the essential aspects of the study, including the plant's history, phytoconstituents, and various pharmacological activities.
4. Mentions the need for further investigational studies, indicating the forward-looking nature of the research.

## Keywords:

5. Provides a set of keywords such as "Vengai," "Phytoconstituents," "Pharmacological activity," "Antibacterial," and "Anti-diabetic," facilitating easy identification and indexing of the research.

## Introduction:

6. Clearly introduces the relevance of herbal plants in traditional medicine and emphasizes their historical significance.
7. Offers a global perspective on the use of herbal medicines and highlights India's rich herbal medicine heritage.
8. Provides information on various systems of medicine used in India and the government's promotion of the medicinal plants sector.

## Genus Pterocarpus and Pterocarpus Marsupium Roxb:

9. Describes the genus Pterocarpus and its widespread distribution.

10. Provides detailed information about *Pterocarpus Marsupium* Roxb, including its vernacular names, native regions, and traditional uses in different systems of medicine.

#### **Phytochemical Investigation:**

11. Enumerates the various phytoconstituents found in *Pterocarpus Marsupium* Roxb, showcasing the plant's chemical diversity.
12. Mentions the presence of alkaloids, proteins, carbohydrates, coumarins, gums, mucilage, fixed oils, anthraquinone glycosides, saponin glycosides, tannins, flavonoids, and phenolic compounds.

#### **Pharmacological Activities:**

13. Presents an extensive list of pharmacological activities demonstrated by the plant, including analgesic, anti-diabetic, anti-inflammatory, anti-cancer, hepatoprotective, anti-microbial, anti-bacterial, anti-diarrhoeal, memory-enhancing, antioxidant, and anti-hyperlipidaemic activities.
14. Emphasizes the plant's versatile therapeutic potential in treating various ailments.

#### **Botanical Description:**

15. Provides a detailed botanical description of *Pterocarpus Marsupium* Roxb, including its size, bark characteristics, leaf structure, heartwood properties, and reproductive features.
16. Offers a comprehensive overview for readers unfamiliar with the plant.

#### **Conclusion and Future Perspectives:**

17. Concludes by summarizing the plant's significant phytoconstituents and pharmacological activities.
18. Highlights the need for further investigational studies to isolate and characterize bioactive compounds for potential drug discovery.

#### **Correspondence Information:**

19. Clearly provides contact information for the corresponding author, facilitating communication for those interested in the study.

#### **Overall Impression:**

20. The review is well-structured, providing a logical flow of information.
21. Incorporates scientific terminology and references, indicating a scholarly approach.
22. The inclusion of botanical descriptions adds depth to the understanding of the plant.
23. The research appears to be a valuable resource for researchers, students, and practitioners in the field of phytochemistry and pharmacognosy.
24. This review article needs major revision before publishing in your journal.

