

# 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.

## Reviewers comment:

Authors have done an excellent job in writing a review article on the medicinal properties of the herbal plant *P. marsupium Roxb*". However, there are some concerns to be taken care of it;

1. The title and abstract appears to cover all the information about the *P. marsupium Roxb* all over the world. However, the introduction is quite region-specific and majorly explains its significance in India only. Clear this confusion in your manuscript. Does it not have importance in other regions of the world?
2. In 'botanical description', it would be better if you include the seasonal characteristics and availability of the plant as well. For example, where is it usually found? What's its habitat? See the reference article for citation and help;

Naveed M, Mubeen S, Khan S, Ahmed I, Khalid N, Suleria HA, Bano A, Mumtaz AS. Identification and characterization of rhizospheric microbial diversity by 16S ribosomal RNA gene sequencing. *Braz J Microbiol*. 2014 Oct 9;45(3):985-93. doi: 10.1590/s1517-83822014000300031. PMID: 25477935; PMCID: PMC4204986.

3. The 'taxonomic classification' contains a table only. Shortly explain the hierarchy with their characteristics.
4. Cite the webpage and name it in the manuscript from where you took the structures of the phytoconstituents.
5. The authors have greatly discussed various pharmacological use of this plant. Address the following questions in your manuscript. Are there present drugs available in the market that are currently in use made from this plant? Name them. Is it been used as a natural remedy, if so, what are its application strategies? Following article is recommended for citation and help:

Zeb S, Mushtaq M, Ahmad M, Saleem W, Rabaan AA, Naqvi BSZ, Garout M, Aljeldah M, Al Shammari BR, Al Faraj NJ, Al-Zaki NA, Al Marshood MJ, Al Saffar TY, Alsultan KA, Al-Ahmed SH, Alestad JH, Naveed M, Ahmed N. Self-Medication as an Important Risk Factor for Antibiotic Resistance: A Multi-Institutional Survey among Students. *Antibiotics (Basel)*. 2022 Jun 23;11(7):842. doi: 10.3390/antibiotics11070842. PMID: 35884096; PMCID: PMC9312266.

6. Is this plant, in any case, causing harm to the environment or have any bad or poisonous effects for humans or other organisms? Mention this in your manuscript.

7. It will be better to discuss the plant's mechanism of action towards healing in human body. Which cells or chemicals are being triggered by these phytochemicals of *P. marsupium Roxb*?

8. The authors have discussed the in-vitro studies related to the healing effect of *P. marsupium Roxb*. In-silico studies related to this should also be discussed as they tell the functionality at the molecular level, which will enhance the concepts of the readers. The following article is helpful as a reference:

Naveed, Muhammad, Tehreem, Sana, Mubeen, Shamsa, Nadeem, Fareeha, Zafar, Fatima, and Irshad, Muhammad. "In-silico analysis of non-synonymous-SNPs of STEAP2: To provoke the progression of prostate cancer" *Open Life Sciences*, vol. 11, no. 1, 2016, pp. 402-416. <https://doi.org/10.1515/biol-2016-0054>

9. Add the industrial pharmacology importance of *P. marsupium Roxb* also in the conclusion.