

Review Form 3

Journal Name:	Asian Journal of Research in Biochemistry
Manuscript Number:	Ms_AJRB_123640
Title of the Manuscript:	A REVIEW ON MEDICINAL AND THERAPEUTIC PROPERTIES OF VERNONIA AMYGDALINA (bitter leaf)
Type of the Article	Minireview Article

Review Form 3

PART 1: Review Comments

<u>Compulsory</u> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	Yes, the title "A REVIEW ON MEDICINAL AND THERAPEUTIC PROPERTIES OF VERNONIA AMYGDALINA (bitter leaf)" accurately reflects the content and scope of the manuscript.	
Is the title of the article suitable? (If not please suggest an alternative title)	The abstract provides a good overview of the key points discussed in the manuscript, including the traditional uses, phytochemical composition, and therapeutic properties of Vernonia amygdalina. However, the authors could consider adding a concluding sentence to highlight the significance and future prospects of research on this medicinal plant.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes, the manuscript is well-organized into appropriate sections and subsections, making it easy to follow the flow of information. The authors have covered various aspects of Vernonia amygdalina, including its botanical classification, phytochemical composition, clinical research findings, ethnopharmacological properties, dietary composition, and traditional uses.	
Are subsections and structure of the manuscript appropriate?	The subsections and structure of the manuscript are appropriate and logically organized, making it easy to follow and understand the content.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The review is comprehensive, covering multiple therapeutic properties of Vernonia amygdalina with detailed explanations of mechanisms of action. It presents evidence from numerous in vitro and in vivo studies, providing a well-rounded view of the plant's pharmacological activities.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	The manuscript includes a substantial and recent bibliography, with 30 cited sources spanning from 2008 to 2024. Many of these are from the last five years, indicating a current perspective on the topic. However, to further strengthen the review, I suggest including a few additional recent systematic reviews or meta-analyses on Vernonia amygdalina's therapeutic properties, if available. This would provide a broader context and higher-level evidence synthesis to complement the individual studies cited.	
<u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the manuscript are generally good and suitable for scholarly communication. However, there are a few minor grammatical and typographical errors that should be corrected during the revision process.	
<u>Optional/General</u> comments	This comprehensive review highlights the diverse medicinal and therapeutic properties of Vernonia amygdalina (bitter leaf), a shrub widely used in African traditional medicine. The plant contains numerous bioactive compounds, including alkaloids, flavonoids, saponins, and terpenoids, which contribute to its broad range of pharmacological activities. Research has demonstrated V. amygdalina's anti-inflammatory, antibacterial, anticancer, antioxidant, and antidiabetic effects. The plant's antidiabetic properties, attributed to compounds like luteolin, aid in blood sugar regulation. The plant's rich nutritional profile, including vitamins and minerals, further enhances its value as a medicinal herb. While more research is needed to fully understand its mechanisms of action and potential clinical applications, V. amygdalina's diverse therapeutic properties and long history of traditional use make it a promising candidate for further investigation in modern medicine	

Review Form 3

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	V. Venkateswaran
Department, University & Country	The Tamil Nadu Dr. M.G.R Medical University, India