

[Review Form 3](#)

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| Book Name: | Contemporary Research and Perspectives in Biological Science |
| Manuscript Number: | Ms_BPR_4095 |
| Title of the Manuscript: | FLORAL AND REPRODUCTIVE PHENOLOGY OF ALOE VERA |
| Type of the Article | Book chapter |

PART 1: 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. A minimum of 3-4 sentences may be required for this part. | <i>Aloe vera</i> is a medicinal herb utilized globally to treat various human ailments. Many pharmaceutical and cosmetic industries use <i>Aloe vera</i> as raw materials for production of medicines, tonics, and beauty products. The manuscript deals with scientific studies i.e., reproductive phenology of the plant which can lead to large scale cultivation and production of the herb at a commercial scale. The paper statistically presents relevant data on reproductive system of the plant which would help plant breeders to select and improve the cultivar with desired traits hitherto unavailable. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | Title of the article is quite alright, however, there is a suggestion for the author to ponder upon. Reproductive phenology is inclusive of both types of reproduction, i.e., sexual as well as vegetative; however <i>Aloe vera</i> predominantly reproduces through vegetative means, whereas the body of the manuscript is exclusive that deals with floral phenology. | |
| 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. | It is suggestive to include some data on seed set, seed germination, and pollinators, such as bees and sunbirds. | |
| Is the manuscript scientifically, correct? Please write here. | Necessitates incorporation of relevant knowledge components i.e., data on breeding systems, seed set, seed germination, juvenile phase, and pollinators in order to make the article complete and comprehensive for the readers. As a book chapter, the objective of the article is to cater to the needs of holistic understanding and application of the scientific knowledge to the field. It should be noted that <i>Aloe vera</i> is sexually self-incompatible, only cross-pollinated seeds are fertile, hence seed grown natural population of <i>Aloe vera</i> is highly heterogeneous, therefore, this heterogeneity could be utilized for the genetic improvement of the cultivar through selection and other techniques. Moreover, Photographs/diagrams of aforementioned points should be included in the article. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. - | Following suggestions with respect to relevant references are being recommended to complement and supplement the article under review in order to make it updated and comprehensive book chapter. <ol style="list-style-type: none"> 1. Botes C, Johanson SD et al. 2009. The birds and bees: using selective exclusion to identify effective pollinators of African tree Aloes. <i>Int. J. Plant Sci.</i> 170, 151-156. doi: 10.1086/595291. 2. Ghate VS, Nagarka RS et al. 2002. Floral polymorphism and fruiting in Kumari (<i>Aloe vera</i>). <i>J. Med. Aromat. Plant Sci.</i> 24, 698-702. 3. Alakukannan G and Ganesh S. 2016. Genetic diversity in <i>Aloe</i> and its breeding strategies. <i>Int. J. Farm Sci.</i> 6, 312-326. 4. Das A, Moquammel Haque SK, Ghosh B et al. morphological and genetic characterization of micropropagated field grown plants of <i>Aloe vera</i> L. <i>Plant Tissue Cult & Biotech.</i> 2015; 25 (2): 231-246. | |

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| Is the language/English quality of the article suitable for scholarly communications? | Yes | |
| <u>Optional/General</u> comments | | |

PART 2:

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| | <u>Reviewer's comment</u> | <u>Author's comment (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)</u> |
| <u>Are there ethical issues in this manuscript?</u> | <u>(If yes, Kindly please write down the ethical issues here in details)</u> | |

Reviewer Details:

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|----------------------------------|--------------|
| Name: | J.P. Narayan |
| Department, University & Country | India |