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| Journal Name: | <u>PLANT CELL BIOTECHNOLOGY AND MOLECULAR BIOLOGY</u> |
| Manuscript Number: | Ms_PCBMB_12749 |
| Title of the Manuscript: | BREEDIT: A Hybrid Approach to Advance Crop Breeding |
| Type of the Article | Review Article |

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> |
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| <p>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.</p> | <p>BREEDIT: A Multiplex Genome Editing Strategy to Improve Complex Quantitative Traits in different crops presents an innovative approach to crop improvement by integrating CRISPR/Cas9 genome editing with traditional breeding methods. This strategy aims to expedite the development of crop varieties with enhanced agronomic traits, addressing the pressing challenges posed by climate change and the growing global population. The BREEDIT pipeline effectively bridges the gap between molecular biology and conventional breeding. By targeting multiple genes simultaneously, it accelerates the identification of beneficial gene combinations that contribute to complex traits like yield and stress tolerance. This paper holds significant importance in the field of agricultural sciences and plant breeding. It provides a comprehensive analysis of the methodology, applications, and potential impact of integrating modern genome editing tools with traditional breeding techniques.</p> | |

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| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>Yes</p> | |
| <p>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.</p> | <p>Yes</p> | |
| <p>Is the manuscript scientifically, correct? Please write here.</p> | <p>Yes</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> | <p>Yes</p> | |
| <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>Yes</p> | |
| <p><u>Optional/General</u>comments</p> | <p>Improvement required: References should be in one single format. Some references have et al. It should be corrected by adding all the authors name. Overall, this review paper on BREEDIT: A Hybrid Approach to Advance Crop Breeding plays a crucial role in advancing scientific knowledge, fostering innovation, and guiding sustainable agricultural practices. It serves as a valuable tool for stakeholders across academia, industry, and policy-making sectors.</p> | |

PART 2:

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| | 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> | |

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