

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_129170
Title of the Manuscript:	Harnessing CRISPR for the Future: Innovations, Applications, and Challenges in Genome Editing
Type of the Article	Review Article

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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.	CRISPR ,a revolutionary gene editing tool finds varied applications in the field of medicine to treat cancers , genetic diseases, autoimmune disorders etc, in agriculture for crop and livestock improvement and in synthetic biology for bioremediation and bio-fuel production. The use of CRISPR technology in clinical trials for hemoglobinopathies, oncology, cardiovascular diseases has raised hope for newer treatment modalities. The recent approval of the CRISPR –Cas9 gene editing cell therapy known as “Casgevy” to treat sickle cell disease has demonstrated promising results in the clinics. These all speak volumes about the overall significance of this gene editing technology.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
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.	The abstract should also define the CRISPR as such in the interest of the readers rather than simply writing it as a gene editing tool .	
Is the manuscript scientifically, correct? Please write here.	Yes	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
Is the language/English quality of the article suitable for scholarly communications?	Adequate	
Optional/General comments	<p>The manuscript requires modification of Fig.1 on mechanism of gene editing by CRISPR Cas9 which should vividly depict the different components of CRISPR Cas9 such as tracrRNA , effector CrRNA complex, Protospacer Adjacent Motif (PAM) etc. for better understanding of CRISPR mechanism. The same diagram should also show the “Indels” in Nonhomologous end joining (NHEJ) as per its mentioning in the text.</p> <p>The article should also include the diagrammatic representations of base editing, prime editing, CRISPRi and CRISPRa so as to have a thorough understanding in the context of the topic covered in the manuscript which will make it more interesting to read and understand. This becomes all the important keeping in view that the article is a comprehensive review.</p> <p>The figures should come in accordance with their place of mentioning which presently is lacking in the article.</p>	

PART 2:

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

Reviewer Details:

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