Commentary on “A Gene Therapy for Hereditary Nonpolyposis Colorectal Cancer using CRISPR-Cas9 Nickase (Preprint)”

Chunbao Sun, MSc
Tulane University, New Orleans, LA, United States

Related Article:
Preprint (bioRxiv) https://www.biorxiv.org/content/10.1101/2023.06.20.545835v1
(JMIRx Bio 2023;1:e54743) doi: 10.2196/54743

KEYWORDS
gene; gene therapy; hereditary; colorectal cancer; cancer; nonpolyposis; inherited disorder; genetic mutation; DNA; colectomy; disease progression; prevention; tumor; quality of life

This is a peer-review report submitted for the preprint “A Gene Therapy for Hereditary Nonpolyposis Colorectal Cancer using CRISPR-Cas9 Nickase.” The authors of that preprint declined to address the peer-reviewer comments and did not proceed to resubmit a Version-of-Record for publication and curation in JMIRx-Bio. In these cases JMIRx-branded journals acting as overlay journals for preprints may publish peer-reviews as commentaries.

Round 1 Review

General Comments
This paper [1] investigates a gene therapy for hereditary nonpolyposis colorectal cancer using clustered regularly interspaced short palindromic repeats (CRISPR)–Cas9 nickase. Overall, it is a good exploratory article, with a background of the combination of CRISPR–Cas9 nickase and gene therapy for hereditary nonpolyposis colorectal cancer, and the research idea is special and novel, but the methodology is only a survey, and the understanding may not bring enough depth to the study.

Specific Comments

Major Comments
1. In terms of the starting point of the study, some of the text in Figure 1 is too small, and even partially obscured by the graphic, to be readable.
2. Figure 2 is too similar in the color scheme of the individual bars, which makes readability and visibility less desirable.
3. Figure 3 is, theoretically, not supposed to be a drawn graph but an actual electrophoretic run of the gel by DNA—a real strip chart trajectory.
4. The compiling, analyzing, and drawing of the work is well done, and it is a very good report. If you can add your own research, revised ideas and approaches to data, and details, you can definitely improve the innovation of the article.

Conflicts of Interest
None declared.

Editorial Notice
The authors of the preprint under review declined the opportunity to revise the preprint in response to the feedback in the peer reviews and publish it in the journal JMIRx Bio. The editors thank the peer reviewers for providing their feedback on this preprint.

Reference


Abbreviations

CRISPR: clustered regularly interspaced short palindromic repeats
Commentary on "A Gene Therapy for Hereditary Nonpolyposis Colorectal Cancer using CRISPR-Cas9 Nickase (Preprint)"

Sun C

Please cite as:
Sun C
Commentary on "A Gene Therapy for Hereditary Nonpolyposis Colorectal Cancer using CRISPR-Cas9 Nickase (Preprint)"
JMIRx Bio 2023;1:e54743
URL: https://bio.jmirx.org/2023/1/e54743
doi: 10.2196/54743
PMID:

© Chunbao Sun. Originally published in JMIRx Bio (https://bio.jmirx.org), 21.12.2023. This is an open-access article distributed under the terms of the Creative Commons Attribution License (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work, first published in JMIRx Bio, is properly cited. The complete bibliographic information, a link to the original publication on https://bio.jmirx.org/, as well as this copyright and license information must be included.