

Review Form 3

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|--------------------------|---|
| Journal Name: | Annual Research & Review in Biology |
| Manuscript Number: | Ms_ARRB_131003 |
| Title of the Manuscript: | Haploinsufficiency in human diseases: A mini-review |
| Type of the Article | |

PART 1: Comments

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| | Reviewer's comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review. | 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. | Haploinsufficiency (HI) occurs when a single functional gene copy is insufficient for normal function, impacting gene expression, disease susceptibility, and evolution. It plays a key role in genetic disorders, developmental syndromes, and cancer. Study models, including CRISPR and computational analyses, help identify HI genes. HI also influences evolutionary dynamics and biophysical constraints. Clinically, understanding HI aids in precision medicine and therapeutic strategies like gene therapy and pathway modulation. Its study bridges genetics, molecular biology, and medicine, making it essential for both fundamental research and clinical applications. | We appreciate the comments of the paper, this has helped us to improve it in terms of content and clarity. |
| Is the title of the article suitable? (If not please suggest an alternative title) | yes | Ok noted |
| 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. | Rewrite and at least 200-250 words need | The abstract has been re-formatted as per suggestion |
| Is the manuscript scientifically, correct? Please write here. | yes | Ok |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | Format the references | the format of references has been changed. |
| Is the language/English quality of the article suitable for scholarly communications? | yes | |
| Optional/General comments | - | |

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