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PEER-REVIEW REPORT

Name of journal: World Journal of Virology

Manuscript NO: 57074

Title: Technological advances in the design of biological cell robot as an HIV vaccine

Reviewer's code: 00004603
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Associate Professor
Reviewer's Country/Territory: United States
Author's Country/Territory: China

Manuscript submission date: 2020-05-24
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-05-24 15:42
Reviewer performed review: 2020-06-01 18:32
Review time: 8 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

The authors created the hypothesis on how biological robot can work as an HIV vaccine. This is based on their understanding of HIV-infection pathogenesis and virus biology. However, it should be specified in a title that this is just a hypothesis. Also, the way how blocking of HIV entrance into CD4+ cells can prevent the infection should be described in more details and the scheme should be provided. Also, I am in doubt that this approach can really work as HIV vaccine without affecting immune properties of CD4+cells. Even if the blocking effects of this particular mechanism is possible, HIV-infection has lot of other aspects, and it is too preliminary to "sell it" as HIV vaccine. It should be strongly emphasized that this is a hypothesis only.