

PEER-REVIEW REPORT

Name of journal: *World Journal of Immunology*

Manuscript NO: 67666

Title: Historical evolution, overview, and therapeutic manipulation of co-stimulatory molecules.

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02524651

Position: Peer Reviewer

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Mexico

Manuscript submission date: 2021-04-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-19 13:10

Reviewer performed review: 2021-06-26 02:45

Review time: 6 Days and 13 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

In the manuscript “Historical evolution, overview, and therapeutic manipulation of co-stimulatory molecules”, the authors introduce the brief history of co-stimulation molecules, the generalities of antigenic presentation and participation of co-stimulation molecules, activating and inhibitory signals, families of co-stimulatory molecules, co-stimulation molecules and their study in diseases and therapeutic application of co-stimulatory or co-inhibitory molecules. The knowledge the authors introduced is relatively familiar for the readers. I suggest the authors would give more interesting and explorative knowledge, such as what is the most important research area for the current basic research, what is the main problem/expectation in current clinical study, what is the prospective area in future.

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Peer-review model: Single blind

Reviewer's code: 04737092

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Scientist

Reviewer's Country/Territory: India

Author's Country/Territory: Mexico

Manuscript submission date: 2021-04-28

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-07-01 11:06

Reviewer performed review: 2021-07-06 18:59

Review time: 5 Days and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Peer-reviewer
statements**Peer-Review: [☒] Anonymous [☐] OnymousConflicts-of-Interest: [☐] Yes [☒] No**SPECIFIC COMMENTS TO AUTHORS**

The article entitled “Historical evolution, overview, and therapeutic manipulation of co-stimulatory molecules” by Soto et al. provides a brief overview on different aspects of co-stimulatory molecules. These aspects have been neatly divided into subsections. However, the information provided in each of these sections appears to be incomplete. The abstract and introduction are poorly written and the Core tip appears to be incomplete. While there are only few grammatical errors, the writing style throughout the article lacks coherence and needs rewriting. Specifically, there many sentences which can be divided into two or more different sentences instead of being separated by a semi-colon. Instead of merely mentioning the Figures and Tables in the text, it would more appropriate to briefly describe each of them in the body of the article. The figure legends also need re-writing. In conclusion, the article cannot be accepted in the present form and needs a great deal of polishing both in terms of language and scientific content.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Mexico

Manuscript submission date: 2021-04-28

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-09-04 12:01

Reviewer performed review: 2021-09-05 07:40

Review time: 19 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The quality of the revised manuscript is improved. Since this manuscript comes from Institute of Ophthalmology, I suggest the authors cite more papers on corneal transplantation using CTLA4Ig and ICOSIg gene therapy from Uwe Pleyer/ Thomas Ritter (Germany, Berlin, Charite)

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Professional title: Research Scientist

Reviewer's Country/Territory: India

Author's Country/Territory: Mexico

Manuscript submission date: 2021-04-28

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2021-09-04 09:53

Reviewer performed review: 2021-09-06 19:54

Review time: 2 Days and 10 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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statements

Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

I have gone through the revised manuscript. While the quality of language and grammar has been greatly improved, the scientific quality of this article is still inadequate. More information must be collected from the literature on this topic and it should be presented in a form to make it more appealing to the readers. Alternatively, the authors may explore the possibility of publishing this manuscript as a mini-review/topic highlight rather than a full length review article.