

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

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Title: Stem cell-derived biofactors fight against coronavirus infection

Reviewer's code: 05084565

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor, Chief Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Iran

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Reviewer chosen by: Ya-Juan Ma

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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 Grade E: Do not publish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 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

This manuscript (No: 64252) reviewed the role of stem cells –derived bioactive factors including secretome and EVs in fighting COVID-19. It possesses guiding value for controlling pandemics and has a certain clinical application prospect. The writing is clear and logical. And it is also well organized. Minor concern: 1. Grammatical mistakes. For example, in Abstract, “EVs supporting both anti-inflammatory and tolerogenic immune response by regulation in proliferation, polarization, activation, and migration of different immune cells.” is not well understood. 2. Expression error. In paragraph “Stem cell-based therapeutics”, the sentence “Due to the dependency of COVID-19's severity on patients' immune system, restraining MSC's immunoregulatory characteristics to enhance cytokine storm is substantial in dealing with serious COVID-19 patients.” seems not to be consistent with the main opinion that MSC's immunoregulatory characteristics of inhibiting cytokine storm benefits COVID-19 patients. So is the sentence “enhances the inflammatory response triggers the extracellular matrix remodeling and angiogenesis” in paragraph “MSC-derived EVs”. 3. Other errors. The abbreviations should be consistent throughout the text. Such as “TGFβ”, “TGF-β”, “MSC EVs”, “MSC-EVs”, “miRNA”, “microRNA”, “mRNA”, “messenger RNA”, etc.