

7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA **Telephone:** +1-925-399-1568 **E-mail:** bpgoffice@wjgnet.com https://www.wjgnet.com

## PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 65095

**Title:** Effects of storage media, supplements and cryopreservation methods on quality of

stem cells

Reviewer's code: 02446101 Position: Editorial Board Academic degree: MD, PhD

**Professional title:** Professor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Turkey

Manuscript submission date: 2021-02-27

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-01 06:52

Reviewer performed review: 2021-03-01 07:08

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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



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## SPECIFIC COMMENTS TO AUTHORS

In this review, the authors summarized the current status quo of stem cell freezing protocols. Then, the authors described the most commonly used cryoprotective agents (CPA) and their effects on stem cells and stem cell function. It provides the systemic and helpful knowledge to the readers. So, acceptance should be recommended for the manuscript.



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## PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 65095

Title: Effects of storage media, supplements and cryopreservation methods on quality of

stem cells

Reviewer's code: 05819120 Position: Peer Reviewer Academic degree: MD

**Professional title:** Doctor

Reviewer's Country/Territory: Germany

**Author's Country/Territory:** Turkey

Manuscript submission date: 2021-02-27

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-09 15:14

Reviewer performed review: 2021-03-16 20:41

**Review time:** 7 Days and 5 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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) [ Y] Minor revision [ ] 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 review article by Erol et al. offers an overview of different methods, protocols and cryoprotective agents used for the cryoconservation of several types of stem cells. The chemical characteristics of commonly used cryoprotective agents including the disadvantages of the use of DMSO are described. On this basis, the authors offer an overview on the literature with regard to the freezing of Hematopoietic stem cells, Mesenchymal stromal/stem cells and induced pluripotent stem cells. This is complemented with supplementary tables consisting of more detailed information on protocols and commercial freezing media. This review, while not offering groundbreaking science, presents a useful account of a basic, but yet important step of working with stem cells. However, minor points can, or should be improved: • Some spelling errors are present in the manuscript (e.g. lines 26, 33, 74, 84, 219, 288, 291, 301, 376, 401, 405) • Some formatting errors are present in the text (e.g. line 210, 272, 303, 323) and regarding capitalization in the references • In some cases, it is unclear to what exactly a sentence is referring to or it could be improved with additional details (e.g. line 118, 139) • Including graphs or images would improve the manuscript If the authors address these, I recommend the manuscript to be published after minor revision.