

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: 81044

**Title:** Stromal cell-derived factor-1α regulates chondrogenic differentiation via activation

of the Wnt/ $\beta$ -catenin pathway in mesenchymal stem cells

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05573866 Position: Peer Reviewer Academic degree: MD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** Egypt

Author's Country/Territory: China

Manuscript submission date: 2022-11-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-09 12:45

Reviewer performed review: 2022-11-16 19:10

**Review time:** 7 Days and 6 Hours

Scientific quality	[ Y] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[ Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y]Yes [ ]No



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Peer-reviewer	Peer-Review: [Y] Anonymous [ ] Onymous
statements	Conflicts-of-Interest: [ ] Yes [ Y] No

### SPECIFIC COMMENTS TO AUTHORS

Authors investigated the role of SDF-1α in cartilage differentiation of MSCs and primary chondrocytes. MSCs were induced to differentiate in vitro along the three skeletal cell lineages of bone, cartilage, and adipose tissue. There are numerous comments and questions the authors should address, all were detailed below: • Some spelling mistakes are present • The manuscript needs punctuation correction particularly in the abstract. • What's the rational for using both MSCs and chondrocytes • Describe the detailed component of culture media used for expansion of chondrocytes



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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

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Reviewer's code: 02560127 Position: Editorial Board Academic degree: PhD

**Professional title:** Professor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: China

Manuscript submission date: 2022-11-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-11-30 05:39

Reviewer performed review: 2022-12-06 18:27

**Review time:** 6 Days and 12 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	[Y]Yes [ ]No



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

### SPECIFIC COMMENTS TO AUTHORS

The overall manuscript is well written however, minor corrections are needed to be incorporated. 1. Abstract needs correction. Aim and methodology used are not clear in the abstract. 2. Since most of the MSCs do not express CXCR4, authors should have considered using flow cytometry instead of immunocytochemistry as it describes more precisely the number of MSCs expressing CXCR4. 3. The information mentioned in line number 286-289 is irrelevant to the manuscript. 4. The manuscript needs grammatical and language editing. 5. Statistical analysis must be rechecked. Some graphs show a 1 to 2-fold increase compared to the control which is not corresponding to the 1-star significance. 6. Some images of the manuscript show a scale bar while some do not. Images need uniformity whereas the protein ladder is missing from figure 6. 7. The references lack uniformity.