Baishideng Publishing Group

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

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 89156

Title: Crosstalk between Wnt and bone morphogenetic protein signaling during osteogenic differentiation

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05386819
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Surgeon
Reviewer's Country/Territory: China
Author's Country/Territory: India

Manuscript submission date: 2023-10-22

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-12-05 01:26

Reviewer performed review: 2023-12-17 14:47

Review time: 12 Days and 13 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

Baishideng Publishing Group

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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No scientific significance
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

SPECIFIC COMMENTS TO AUTHORS

Title: A Review on Crosstalk between Wnt and BMP Signaling in Osteogenic Differentiation 1, Summary: In this manuscript, Arya et al. reviewed the molecular processes underpinning the crosstalk between Wnt and BMP signaling pathways and explain their participation in osteogenic differentiation. The authors summarized that the crosstalk between the Wnt/β-catenin/BMP signaling and many other signaling pathways plays critical regulatory roles in osteogenic differentiation and bone formation. This is an interesting work and may bring some inspirations for small molecule therapy strategy. Here are a few questions about this manuscript. 2. Major comments: 2.1 It would be better if the authors could provide a schematic illustration to summarize the crosstalk between Wnt and BMP signaling pathways in osteogenesis, although they have partially answered this question in Figure 2. Readers may get a more accurate understanding of this review. 2.2 As authors have mentioned in this manuscript, many signaling pathways are involved in osteogenic differentiation. Authors need to clarify why only Notch signaling and ERK1/2 signaling were described in Section 4. Especially, what is the relationship between ERK1/2 signaling pathway and BMP

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

signaling? 3. Minor comments: 3.1 Some abbreviations lack full names when they first appear in the text, such as DKK-1. 3.2 The tables in this paper are not organized according to the standard format. Sincerely,

Baishideng Publishing Group

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

PEER-REVIEW REPORT

Name of journal: *World Journal of Stem Cells*

Manuscript NO: 89156

Title: Crosstalk between Wnt and bone morphogenetic protein signaling during osteogenic differentiation

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02565717
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Chief Doctor, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: India

Manuscript submission date: 2023-10-22

Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-12-10 03:02

Reviewer performed review: 2023-12-21 21:14

Review time: 11 Days and 18 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[Y] Grade A: Excellent [ ] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No creativity or innovation

Baishideng Publishing Group

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

Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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 statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is a good review. I would suggest acceptance