

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Stem Cells*

**Manuscript NO:** 82627

**Title:** Role of brahma-related gene 1/brahma-associated factor subunits in neural stem/progenitor cells and related neural developmental disorders

**Provenance and peer review:** Unsolicited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 02566021

**Position:** Editorial Board

**Academic degree:** BSc

**Professional title:** Assistant Professor

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

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

**Manuscript submission date:** 2022-12-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-01-16 17:41

**Reviewer performed review:** 2023-01-24 16:26

**Review time:** 7 Days and 22 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "Role of BAF complex subunits in neural stem/progenitor cells" by Naiyu Ke et al. deals with a very interesting and current topic. Even if some minor revisions have to be made, the manuscript deserves to be accepted. Minor revisions:

- There are numerous typos and spacing errors throughout the manuscript.
- Some bibliographic entries are missing: for example, on page 12, it states "Recent human exome sequencing and genome-wide association studies have shown that..." Specify which studies. Also in other places, insert the appropriate references.
- The abstract is too concise and the objectives of the manuscript should be explained more clearly. In any case, the manuscript provides a good contribution to the knowledge on the role of BAF complex in regulating the balance between self-renewal and differentiation of neural stem/progenitor cells and on its relationship with some neurodevelopmental pathologies.

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**Peer-review model:** Single blind

**Reviewer's code:** 00340828

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** United States

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

**Manuscript submission date:** 2022-12-24

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-01-17 13:36

**Reviewer performed review:** 2023-01-25 19:00

**Review time:** 8 Days and 5 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
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<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Overall it's a good mini review on BAF complex subunits and its role in neural stem/progenitor cells and related neural developmental disorders. Several comments listed below, mostly related to organizations of the review articles. 1. The title of the article could be more meaningful, if changing to "The role of BAF complex subunits in neural stem/progenitor cells and related neural developmental disorders". 2. Symbol and nomenclature: there should be a table of symbol and nomenclature in the order of appearance, including the terms spelled out and definitions. As for now, BAF in title and abstract appears confusing without full terms, the same with BRG1/BRM first appeared in the introduction, without spelling out. 3. In line 11, the sentence "NSPCs can be isolated ....." has some grammar issues. It should add "The fact that" in front of NSPC to make the first part of the sentence a noun. 4. In Introduction, the last sentence of second paragraph listed all 30 subunits. It's not necessary. The 30 subunits could either be referenced, or grouped based on modules put in a table. 5. The section "BAF COMPLEX SUBUNITS IN NSPCs" can be re-organized in order of importance, instead of by BAF number. The least studied BAFs could be omitted, e.g. BAF47 and BAF55A. In

addition, the titles of sub-sections (the subunits) should be differentiated from the title of the section. It could be done by shifting in tab. As is now, they are parallel to the section title, making reading content uneasy.