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## PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 76874

Title: Metabolic determinants of stemness in medulloblastoma

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05046795 Position: Peer Reviewer Academic degree: PhD

Professional title: Research Assistant Professor

Reviewer's Country/Territory: China

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

Manuscript submission date: 2022-04-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-07 09:10

Reviewer performed review: 2022-04-07 09:53

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Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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



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

## SPECIFIC COMMENTS TO AUTHORS

Here, the authors summarized metabolic differences among the different MB groups. They also introduced the emerging metabolism-based therapeutic strategies for MB. There have some minor concerns about this review: 1. Does the metabolism shift in CSCs is unique in MB or totally same as other tumours? 2. They should summarize the metabolism therapeutic targets in Table 1 or Figure 2. 3. Add some new evidence from FDA approved clinical trail(targeting metabolism) in MB, or AACR reports. 4. The interaction between different metabotic pathways should be discussed in CSCs.



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Provenance and peer review: Invited Manuscript; Externally peer reviewed

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Reviewer's code: 05527205 Position: Peer Reviewer Academic degree: PhD

**Professional title:** Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Spain

Manuscript submission date: 2022-04-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-04-07 14:18

Reviewer performed review: 2022-04-11 08:59

**Review time:** 3 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
Language quality	[Y] Grade A: Priority publishing [] 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	[Y]Yes []No
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## SPECIFIC COMMENTS TO AUTHORS

This is a well-organized review that will bring wide interest in the metabolic characteristics of CSC in different subtypes of MB, here are my detailed opinons: 1) Since the great importance of metabolism in medulloblastoma CSC, the author needs to summarize the alteration of detailed metabolites examined by LC/MS or NMR. 2) In different sutypes of MB, the markers of CSC is isolated with different markers or not ? 3) The author need to add one row to describe the theraputic strategy (drugs) of MB in table 1 ? 4) The resolution of Figures are low, needs improvement.