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

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<th>Scientific quality</th>
<th>Grade A: Excellent</th>
<th>Grade B: Very good</th>
<th>Grade C: Good</th>
<th>Grade D: Fair</th>
<th>Grade E: Do not publish</th>
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<td>Language quality</td>
<td>Grade A: Priority publishing</td>
<td>Grade B: Minor language polishing</td>
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<td>Grade D: Rejection</td>
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<td>Anonymous</td>
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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 metabolic pathways should be discussed in CSCs.
**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:** 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

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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 opinions: 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 subtypes of MB, the markers of CSC is isolated with different markers or not? 3) The author need to add one row to describe the therapeutic strategy (drugs) of MB in table 1? 4) The resolution of Figures are low, needs improvement.