

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 82293

**Title:** Immune microenvironment of Medulloblastoma: The association between its Molecular Subgroups and Potential Targeted Immunotherapeutic Receptors

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

**Peer-review model:** Single blind

**Reviewer's code:** 05120663

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

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

**Author's Country/Territory:** Saudi Arabia

**Manuscript submission date:** 2022-12-14

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-01-11 19:17

**Reviewer performed review:** 2023-01-12 07:23

**Review time:** 12 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Excellent <input 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 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

This paper covers very interesting topics. Contents are generally well written except for some points. English writing needs much improvement. After improvements in the contents and English, this paper can be very useful. Specific comments are below. This review still lacks important factors. In a new short section, the author should discuss environmental, dietary, reproductive, and life habit factors which influence microbiome and immune system, and response to therapy. The authors should discuss these points; influence of those factors on cellular metabolism, tumor biology, and clinical outcome. These factors may influence molecular pathology and response to therapy in each patient differentially. Several studies shown gut microbiome influence response to immunotherapy in various tumor types. There are also influences of germline genetic variations on immunity and cancer. Gene-by-environment interactions should be discussed. In those lines, research on diet, environment, lifestyle, reproductive factors should be integrated with analyses of personalized molecular biomarkers in tumor - that is needed for research on cancers including pediatric cancers and brain tumors. The authors should discuss molecular pathological epidemiology

research that can investigate those factors in relation to molecular pathologies, and clinical outcomes. Molecular pathological epidemiology research can be a promising direction and has been discussed in the literature, eg, *Ann Rev Pathol* 2019, *Gut* 2022.

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**Reviewer's code:** 06370350

**Position:** Peer Reviewer

**Academic degree:** MBBS, MMed

**Professional title:** Chief Physician, Researcher

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

**Author's Country/Territory:** Saudi Arabia

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**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-01-15 14:33

**Reviewer performed review:** 2023-01-15 17:13

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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 type="checkbox"/> Grade B: Good <input checked="" 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 type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



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<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

Okay