

## PEER-REVIEW REPORT

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

**Manuscript NO:** 78296

**Title:** Nutrition deprivation affects the cytotoxic effect of CD8 T cells in hepatocellular carcinoma

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

**Peer-review model:** Single blind

**Reviewer's code:** 04582350

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Chief Doctor

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

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

**Manuscript submission date:** 2022-06-18

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-06-21 03:28

**Reviewer performed review:** 2022-06-22 01:34

**Review time:** 22 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 Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

According to what have been mentioned in this letter, the nutrition such as (glutamine, asparagine, serine, glucose, lactate, glutamine, methionine, neutral amino acids and tryptophan) deficiency effect CD8<sup>+</sup> T-cell activation and function against tumor cells, proliferation, and cytotoxic effect of CD8<sup>+</sup> T cells. The findings were declared in previous studies. Glutamine deprivation has a different effect on the CD8<sup>+</sup>T cells, that depends on the tumor microenvironment and tumor type.

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**Peer-review model:** Single blind

**Reviewer's code:** 02832130

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Professor

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

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

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**Reviewer chosen by:** AI Technique

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**Reviewer performed review:** 2022-06-27 10:50

**Review time:** 8 Days and 11 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
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<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
Re-review	<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

Comments Name of Journal: World Journal of Gastrointestinal Oncology Manuscript NO: 78296 Manuscript Type: Letter to Editor Title: Nutrition deprivation affects the cytotoxic effect of CD8 T cells in hepatocellular carcinoma The author of this manuscript read a basic study recently published by Wang et al. with great interest and showed that the roles of amino acids such as glutamine in T cell activation and function are dependent on tumor types and nutrients in the tumor microenvironment. Overall, amino acid metabolism reprogramming in the tumor microenvironment plays a pivotal role in both tumor growth and immune response. This paper is very interesting, but there are a few of defects need to be modified. The title of this article is: Nutrition deprivation affects the cytotoxic effect of CD8 T cells in hepatocellular carcinoma (Key word: Nutrition). The title of Reference 1 is: Glutamine deprivation impairs function of infiltrating CD8+ T cells in hepatocellular carcinoma by inducing mitochondrial damage and apoptosis (Key word: Glutamine). Maybe the author of this manuscript mean that there are other Nutrition or amino acids with the similar effects of Glutamine ( affects the cytotoxic effect of CD8 T cells ), but they did not mentioned in the text. It is recommended that the author list some other Nutrition or amino acids, and briefly discuss the them, and provide related references.

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**Title:** Nutrition deprivation affects the cytotoxic effect of CD8 T cells in hepatocellular carcinoma

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

**Peer-review model:** Single blind

**Reviewer's code:** 03741923

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Associate Professor

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

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

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**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-06-19 08:06

**Reviewer performed review:** 2022-06-30 00:57

**Review time:** 10 Days and 16 Hours

Scientific quality	[ <input checked="" type="radio"/> ] Grade A: Excellent [ <input type="radio"/> ] Grade B: Very good [ <input type="radio"/> ] Grade C: Good [ <input type="radio"/> ] Grade D: Fair [ <input type="radio"/> ] Grade E: Do not publish
Language quality	[ <input checked="" type="radio"/> ] Grade A: Priority publishing [ <input type="radio"/> ] Grade B: Minor language polishing [ <input type="radio"/> ] Grade C: A great deal of language polishing [ <input type="radio"/> ] Grade D: Rejection
Conclusion	[ <input checked="" type="radio"/> ] Accept (High priority) [ <input type="radio"/> ] Accept (General priority) [ <input type="radio"/> ] Minor revision [ <input type="radio"/> ] Major revision [ <input type="radio"/> ] Rejection
Re-review	[ <input checked="" type="radio"/> ] Yes [ <input type="radio"/> ] No



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<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
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#### **SPECIFIC COMMENTS TO AUTHORS**

NO