

PEER-REVIEW REPORT

Name of journal: *World Journal of Immunology*

Manuscript NO: 85467

Title: Stem cell-like memory T cells: Role in Viral Infections and Autoimmunity

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00503405

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Senior Lecturer, Senior Scientist

Reviewer's Country/Territory: Hungary

Author's Country/Territory: India

Manuscript submission date: 2023-04-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-04-28 16:00

Reviewer performed review: 2023-05-01 14:52

Review time: 2 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 Grade E: Do not publish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 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

Scientific significance of the conclusion in 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 scientific significance
Language quality	<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
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	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 authors of the minireview summarized the characteristics of stem cell-like memory T cells and their role in viral infections and autoimmune diseases based on recent literature data. The facts described are basically correct, understandable, and summarize the available data on the subject. However, one important aspect needs to be further elaborated: what are the antiviral and immunotherapeutic (including CAR-based) potentials of Tscm cells?

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Peer-review model: Single blind

Reviewer's code: 05426937

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2023-04-28

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-05-19 05:38

Reviewer performed review: 2023-05-27 07:30

Review time: 8 Days and 1 Hour

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

Scientific significance of the conclusion in 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 scientific significance
Language quality	<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
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
Peer-reviewer statements	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 article discusses the contrasting roles of stem cell-like memory T (TSCM) cells during chronic viral infections and autoimmune diseases. During chronic viral infections, such as HIV-1, the TSCM cells serve as reservoirs for latent viruses, which can be activated to make them susceptible to cytotoxic T cell responses. However, during acute viral infections, the TSCM cells have the ability to replenish the diminished effector T cell population. In autoimmune diseases, like type-1 diabetes, these cells contribute to the disease pathogenesis by persistent generation of autoreactive effector T cells. A better understanding of the key signaling pathways and mediators regulating TSCM cells could lead to novel approaches to target or manipulate these cells for immunotherapeutic applications. The content of this manuscript is interesting. We believe this manuscript is valuable for all the researchers who are interested in the contrasting roles of stem cell-like memory T (TSCM) cells during chronic viral infections and autoimmune diseases. This study focuses on current research hot spots and frontiers, which is very important for subsequent research. The article also puts forward the current problems and future research directions. Therefore, I recommend accepting and

publishing this manuscript.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 00503405

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Senior Lecturer, Senior Scientist

Reviewer's Country/Territory: Hungary

Author's Country/Territory: India

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Reviewer chosen by: Yu-Lu Chen

Reviewer accepted review: 2023-07-07 03:04

Reviewer performed review: 2023-07-08 12:44

Review time: 1 Day and 9 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 type="radio"/> Accept (High priority) <input checked="" type="radio"/> Accept (General priority) <input type="radio"/> Minor revision <input type="radio"/> Major revision <input type="radio"/> Rejection



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Peer-reviewer statements	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

The authors provide a correct revision according to the given suggestions. The revised version of the manuscript is acceptable for publication.