

PEER-REVIEW REPORT

Name of journal: *World Journal of Experimental Medicine*

Manuscript NO: 83266

Title: Physiopathological mechanisms related to inflammation in obesity and type 2 diabetes mellitus

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05227241

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Scientist

Reviewer's Country/Territory: Portugal

Author's Country/Territory: Greece

Manuscript submission date: 2023-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-23 16:33

Reviewer performed review: 2023-01-24 21:13

Review time: 1 Day and 4 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 Grade E: Do not publish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 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 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

Dear authors, the topic addressed is of great importance for understanding the pathophysiology of obesity, as well as, type 2 diabetes mellitus, and consequently the application of this knowledge in the control/treatment of metabolic diseases. However, reading this manuscript I missed innovation, new mechanisms that can explain the huge inflammation in obesity and how to control. The authors need to add innovative scientific information in order to provide readers with the acquisition of new approaches. Also, is necessary to substitute OBESE in all manuscript to individuals or people with OBESITY. No stigmatization in scientific field. The title could be more attractive. Sugestion: "Physiopathological Mechanisms related to inflammation in obesity and type 2 diabetes mellitus". I suggest to include a new term for NAFLD - that is Metabolic Associated Fatty Liver Disease (MAFLD). Conclusions and future perspectives were shallow, could be more precise.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05418714

Position: Peer Reviewer

Academic degree: Doctor, MD, PhD

Professional title: Assistant Professor, Attending Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2023-01-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-30 02:46

Reviewer performed review: 2023-01-30 07:33

Review time: 4 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
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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 paper systematically reviews the changes of inflammatory markers in obesity and diabetes. Chronic inflammation and metabolic diseases are considered to be concomitant diseases and are closely related to each other. Therefore, this review has very important clinical value.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Peer-review model: Single blind

Reviewer's code: 05227241

Position: Peer Reviewer

Academic degree: PhD

Professional title: Research Scientist

Reviewer's Country/Territory: Portugal

Author's Country/Territory: Greece

Manuscript submission date: 2023-01-15

Reviewer chosen by: Ji-Hong Liu

Reviewer accepted review: 2023-03-28 09:21

Reviewer performed review: 2023-03-28 14:06

Review time: 4 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
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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

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

SPECIFIC COMMENTS TO AUTHORS

Dear authors, I appreciated modifications in your revised manuscript based on my suggestions/considerations. However, the most important point was not improved, that was the innovative scientific information in order to provide readers with the acquisition of new approaches. Only with addition of genome-wide association studies (GWAS) to explore the link between obesity and various conditions was not enough. We have available in the scientific literature about obesity and T2DM, 90% of all these information. This is a major revision. Besides, as a minor revision I can list some corrections: - tumour necrosis factor alfa - substitute for tumor necrosis factor alpha - WHR - need to write the extension (weight/height ratio) in the first time in the manuscript - In Conclusion: Type 2 Diabetes Mellitus - substitute for T2DM - Perturbations - substitute for alterations