

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Diabetes*

**Manuscript NO:** 82701

**Title:** Genetics of Diabetes

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

**Peer-review model:** Single blind

**Reviewer's code:** 05792223

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Doctor

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

**Author's Country/Territory:** India

**Manuscript submission date:** 2022-12-26

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2023-02-15 09:11

**Reviewer performed review:** 2023-02-15 09:57

**Review time:** 1 Hour

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 Grade E: Do not publish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

<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 checked="" type="checkbox"/> Accept (General priority) <input 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

I think this is a useful review at this point in time for personalized medicine for diabetes. However, this is a good description of MODY, but there is no mention of atypical diabetes. Need to check the literature and add it.

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**Peer-review model:** Single blind

**Reviewer's code:** 00039368

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Academic Research, Associate Professor

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

**Author's Country/Territory:** India

**Manuscript submission date:** 2022-12-26

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2023-02-15 08:58

**Reviewer performed review:** 2023-02-22 09:48

**Review time:** 7 Days

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 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 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
<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 type="checkbox"/> Yes <input checked="" 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 is a well-written review paper concerning the classification, genetic variants associated with diabetes, importance of uncommon variants, gene-environment interactions and epigenetics. Additionally, the authors give overview about the pharmacogenomics in Diabetes Mellitus. The authors have reviewed and analyzed a sufficient amount of literature (186 articles). The review paper has been supplied with four Tables and three Figures. In this review, authors pay a most attention to diabetes susceptibility genes, epigenetic alterations, polygenic risk scores for T2DM and pharmacogenomics in diabetes mellitus. The authors also described the potential therapeutic drugs including phytochemicals used in prevention and treatment of diabetes and its complications. However, the following point need to be considered:

1. In the Figure 1 by description of "Types of diabetes", the authors consider that "In T2D body's own immune system mistakenly destroys the insulin-producing pancreatic -cells, thereby affecting insulin production". This statement is not correct.

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**Peer-review model:** Single blind

**Reviewer's code:** 05376168

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Professor

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

**Author's Country/Territory:** India

**Manuscript submission date:** 2022-12-26

**Reviewer chosen by:** Yu-Lu Chen

**Reviewer accepted review:** 2023-02-15 06:23

**Reviewer performed review:** 2023-02-24 06:35

**Review time:** 9 Days

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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<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" 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

Vanita Vanita and colleagues provided an overview of the Genetics of Diabetes. They summarized the classification, global prevalence, pathogenesis of DM. In addition, the identification of diabetes susceptibility genes, epigenetic alterations in T2DM, microRNAs (miRNAs) related to DM, polygenic risk scores for T2DM, pharmacogenomics in DM et al were also elaborated by them. The language of this manuscript is smooth, the structure is clear and organized, and it is a very excellent review. I can not direct any criticism to this manuscript.