

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 80041

Title: Role of defensins in diabetic wound healing

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 04740911

Position: Peer Reviewer

Academic degree: DSc, MD, MSc, PhD

Professional title: Assistant Professor, Research Scientist

Reviewer's Country/Territory: Poland

Author's Country/Territory: China

Manuscript submission date: 2022-09-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-19 07:24

Reviewer performed review: 2022-09-22 09:46

Review time: 3 Days and 2 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 Grade E: Do not publish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 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 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
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

SPECIFIC COMMENTS TO AUTHORS

The manuscript titled "Role of defensins in diabetic wound healing" is narrative review. The title, abstract and key words cover main aspects of the manuscript. As this is narrative review there is no special methods to be included, however I would ask for the researches search strategies. Yet, as researcher Shen BZ were responsible for navigating the literature and sharing the relevant studies that were included in this review please state the methods. Moreover as in the references (66 numbers) only 27 are from last 5 years it would add more complex informations about the relevant studies were included. Thus discussion about results described by the authors is quite hard to estimate with not known methods strategy. In my opinion the discussion of the found results should be updated - as I wrote only 27 refferences are from last 5 years. The tables and figures are informative and well prapared. Last: I have some doubts to the authors contribution - the "formating the citations and compilation of the references, verifying spelling, punctuation and grammatical errors" are technical point of article so is it right to be an author of the whole study?

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Manuscript NO: 80041

Title: Role of defensins in diabetic wound healing

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02560127

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Pakistan

Author's Country/Territory: China

Manuscript submission date: 2022-09-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-09-17 15:52

Reviewer performed review: 2022-09-26 16:12

Review time: 9 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
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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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statements

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

SPECIFIC COMMENTS TO AUTHORS

1. The literature regarding anti-microbial peptide is missing and authors have not discussed in detail what are defensins and their properties. Authors did not add literature regarding the expression level of alpha and beta defensins in case of diabetic wound. 2. Role of defensins with regards to MMP-2 and MMP-9 is very unclear. More studies related to role of defensins and MMP-2 and 9 need to be added. 3. Authors should address the findings of in vivo diabetic wound models with regards to healing effect of defensins. 4. Mechanistic pathways are also not discussed in a way that they should be. Authors should add a figure that link the role of defensins with the mechanistic pathway which authors discussed to make it more clear.