



PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 68018

Title: Gut Microbiota and Diabetic Kidney Diseases: Pathogenesis and Therapeutic Perspectives

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05665395

Position: Peer Reviewer

Academic degree: N/A

Professional title: Director, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Singapore

Manuscript submission date: 2021-05-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-09 21:18

Reviewer performed review: 2021-05-11 04:32

Review time: 1 Day and 7 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 Grade E: Do not publish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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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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 pape focus on the potential role of gut floras in the pathogenesis and as therapeutic targets of DKD,this is a good work.



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Reviewer's code: 05104676

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Singapore

Manuscript submission date: 2021-05-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-11 01:42

Reviewer performed review: 2021-05-18 02:05

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
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SPECIFIC COMMENTS TO AUTHORS

Reviewer Comments to Author:

- 1 Title. Does the title reflect the main subject/hypothesis of the manuscript? Yes
- 2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? Yes
- 3 Key words. Do the key words reflect the focus of the manuscript? Yes
- 4 Background. Does the manuscript adequately describe the background, present status and significance of the study? Yes
- 5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? Yes
- 6 Results. Are the research objectives achieved by the experiments used in this study? What are the contributions that the study has made for research progress in this field? Yes
- This manuscript reviews the role of changes in intestinal flora and its metabolites in the occurrence and development of DKD, and provides therapeutic targets for the DKD.
- 7 Discussion. Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently? Yes
- 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? Do figures require labeling with arrows, asterisks etc., better legends? Yes
- 9 Biostatistics. Does the manuscript meet the requirements of biostatistics? Yes
- 10 Units. Does the manuscript meet the requirements of use of SI units? Yes
- 11 References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite



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and/or over-cite references? Yes 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? Is the style, language and grammar accurate and appropriate? Yes 13 Research methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement - Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? Yes 14 Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? Yes

This manuscript reviews the role of changes in intestinal flora and its metabolites in the occurrence and development of DKD, and provides therapeutic targets for the DKD.

1. The first sentence of the "Abstract" part is exactly the same as the "INTRODUCTION" and it is recommended to modify it. 2. It is recommended to add a list of abbreviations. 3. The sixth paragraph of the "DKD: PATHOGENESIS" section is not related to the subject of this article and it is recommended to be refined. 4. There are a lot of confusing places in Figure 1, and it is recommended to accurately display it according to the description in the manuscript. a. There is no mention in the manuscript that "Exercise" is a "potential factors". b. It is recommended to indicate in the legend what icon means activation and what icon means inhibition. c. The manuscript does not mention that Uremic toxins can activate NF- κ B. d. Tht figure 1 showed that SCFA activates GPR to become GPL1? please explain. d. Tht figure 1 showed that LPS



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activates TLR4 of macrophages and then activates NF- κ B.please explain。 e. The legend "NF-kb" in Figure 1 is Kappa, not.



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Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Singapore

Manuscript submission date: 2021-05-09

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-10 02:20

Reviewer performed review: 2021-05-18 09:17

Review time: 8 Days and 6 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
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SPECIFIC COMMENTS TO AUTHORS

Lin and colleagues reviewed the research advances in the relationship between gut microbes and diabetes mellitus and DKD and discoursed the significance of gut microbiota and gut health for the DKD therapy. Their constructive perspective are beneficial for the development of new approaches in the treatment and prevention of DKD and related metabolic disorders. This review is of good quality and of interest to the journal's audience. It is suggested to completely drop the term 'flora' from this manuscript as this is really an outdated term and replace it entirely by 'gut microbiota' which is the accepted term nowadays reflecting the bacterial community representations in a wider sense. The name of the bacteria should be italicized in text, and after the full name is used, the next time it appears in the text the bacterial genus can be abbreviated .