

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 64168

Title: Expression and role of piRNA in diabetic-retinopathy in mice

Reviewer's code: 02992809

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor, Associate Professor

Reviewer's Country/Territory: Greece

Author's Country/Territory: China

Manuscript submission date: 2021-03-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-02 10:24

Reviewer performed review: 2021-03-29 15:17

Review time: 27 Days and 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 Grade E: Do not publish
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 type="checkbox"/> Yes <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

piRNA plays an important role in transposon silencing, epigenetic regulation, protein regulation of genome rearrangement, spermatogenesis, and germ stem cell maintenance, and may play an important role in the formation and development of diabetic retinopathy. However, few studies have explored this hypothesis. This study evaluated the role of piRNA in RNV diseases by sequencing of RNA obtained from the retinal tissues of mice with proliferative diabetic retinopathy mice and normal mice. The research methods are clearly described. The experimental models were well. Sequencing analysis are reasonable. The results of Fluorescence imaging, quantitative analysis of retinal vascular endothelial cells, high-throughput sequencing results, etc. are good. In the discussion section, those results are well discussed. Minor comments: 1. The manuscript requires a minor editing. 2. The abstract is too long, please short it. 3. The quality of the images should be improved. High resolution images should be provided. 4. The stars in the figures should be noted and explained. 5. References list should be edited according to the journal's guidelines.

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 64168

Title: Expression and role of piRNA in diabetic-retinopathy in mice

Reviewer's code: 03666288

Position: Peer Reviewer

Academic degree: FACC, MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

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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
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
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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

SPECIFIC COMMENTS TO AUTHORS

After reading this study carefully, I found it's very interesting. This study investigated the expression of piRNA in proliferative diabetic retinopathy mice. The results are excellent, and well discussed. I recommend to accept this manuscript for publication.