

## PEER-REVIEW REPORT

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

**Manuscript NO:** 40477

**Title:** Pathological changes in the cellular structures of retina and choroidea in the early stages of alloxan-induced diabetes

**Reviewer's code:** 03833183

**Reviewer's country:** United States

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-06-26

**Date reviewed:** 2018-06-26

**Review time:** 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input checked="" type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Good study. It would have been interesting had the authors continued the study till the stage of diabetic retinopathy and chronicled the changes in the retina and other surrounding structures as they did in the present study. It would also would have



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been interesting had the authors estimated VEGF, PDEF, cytokines, NO and antioxidants and correlated them with blood glucose levels and changes in the retina and other structures to know which factor(s) are at the root cause of retinopathy. Is the simple increase in plasma glucose is sufficient or glucose-triggered change sin cytokines, VEGF, PDEF, NO, etc., are needed for the development of retinopathy. Such a study would have been clues as to what remedial measures are needed to prevent or manage retinopathy.

#### **INITIAL REVIEW OF THE MANUSCRIPT**

##### ***Google Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

##### ***BPG Search:***

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

## PEER-REVIEW REPORT

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

**Manuscript NO:** 40477

**Title:** Pathological changes in the cellular structures of retina and choroidea in the early stages of alloxan-induced diabetes

**Reviewer's code:** 00058696

**Reviewer's country:** United States

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2018-07-09

**Date reviewed:** 2018-07-10

**Review time:** 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

This new manuscript has been carefully examined. The major questions are summarized below: 1) Alloxan is a well-known oxidant (studies began 70 years ago). Oxidative stress is a major potential origin for complications of diabetes mellitus (see for



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example: Maritim AC et al. Diabetes, oxidative stress, and antioxidants: A review. J Biochem Mol Toxicol 2003; 17: 24-38). There is no control group to examine the potential role of the non-diabetic effect of Alloxan on the retina. Are the authors' results a reflection of the toxic effect of Alloxan on the retina of this rat model? 2) There is information about the effects of Alloxan on the retina of rats going well back into the 1960s (i.e. Musacchio ITL, et al. Microaneurysms in the retina of diabetic rats. Lancet 1964; 283(7325): 146). The authors need to well summarize the limits of the present knowledge of this animal model. It is presently not clear how the authors' experiments provide information to better understand this field.

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- ☐ [Y] No

##### ***BPG Search:***

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- ☐ [Y] No