



**PEER-REVIEW REPORT**

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 40527

**Title:** Zinc finger E-box-binding homeobox 1 mediates aerobic glycolysis via suppression of sirtuin 3 in pancreatic cancer

**Reviewer’s code:** 00037961

**Reviewer’s country:** United States

**Science editor:** Ruo-Yu Ma

**Date sent for review:** 2018-08-09

**Date reviewed:** 2018-08-16

**Review time:** 7 Days

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 Grade E: Do not publish	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

**SPECIFIC COMMENTS TO AUTHORS**

The present study investigates the roles of tumor promoting gene ZEB1 in aerobic glycolysis regulation and shed light on the underlying molecular mechanism. Endogenous ZEB1 was silenced by using lentivirus mediated method, and the impact of



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ZEB1 and MBD1 on aerobic glycolysis was measured by using Seahorse cellular flux analyzers, reactive oxygen species quantification and mitochondrial membrane potential measurement. The interaction between Zeb1 and Mbd1 was assessed by co-immunoprecipitation assay and immunofluorescence assay. The impact of ZEB1 and MBD1 interaction on SIRT3 expression was confirmed by quantitative PCR, western blot, dual-luciferase and chromatin-immunoprecipitation assay. the results show that ZEB1 was a positive regulator of aerobic glycolysis in pancreatic cancer. ZEB1 transcriptionally silenced expression of SIRT3, a mitochondrial-localized tumor suppressor through interaction with MBD1. the authors conclude that ZEB1 silenced SIRT3 expression via interaction with MBD1 to promote aerobic glycolysis in pancreatic cancer

Comments; 1) Please edit the manuscript thoroughly. 2) the space between the text and the title of the section must be assured 3) there were no page numbers 4) The figures 1 and 5 are too crowded and if possible please separate them. 5) Please develop an abbreviation list and spell out the abbreviated word when first mentioned 6) the results page where the "Epigenetic factor MBD1 could interact with ZEB1 in pancreatic cancer cells" please correct the 3rd line replacing ZEB1 to MBD1.

## INITIAL REVIEW OF THE MANUSCRIPT

### *Google Search:*

- The same title
- Duplicate publication
- Plagiarism
- No

### *BPG Search:*

- The same title



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Duplicate publication

Plagiarism

No