

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 46296

Title: Screening the RFX6-DNA binding domain for potential genetic variants in patients with type 2 diabetes

Reviewer's code: 02446609

Reviewer's country: United States

Science editor: Ying Dou

Date sent for review: 2019-02-10

Date reviewed: 2019-02-15

Review time: 4 Hours, 5 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	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input 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 type="checkbox"/> Advanced
		<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 study by Mahmoud et al analysed structural genetic defects could be present in the DNA binding domain of RFX6 in T2D patients that could potentially inhibit its function in diabetes using PCR and DNA sequencing. The study was prompted by previous



**Baishideng
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7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-223-8242
Fax: +1-925-223-8243
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

findings that genetic variants that increased the risk of T2D are predicted to disrupt mainly the binding of RFX6 to genomic DNA indicating that RFX6 binding to X-box promoter motifs could be disrupted in T2D. The authors conclude that there is no any significant genetic variant that could affect the function of DNA binding domain of RFX6. The results are important because they excluded genetic variations in RFX6 as player in T1D pathogenesis. I have few minor comments: 1) The authors should use T2D instead of only T2 in the abstract 2) There are few minor typo and grammatical errors that need to be fixed.

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: 46296

Title: Screening the RFX6-DNA binding domain for potential genetic variants in patients with type 2 diabetes

Reviewer's code: 03465354

Reviewer's country: United States

Science editor: Ying Dou

Date sent for review: 2019-02-10

Date reviewed: 2019-02-15

Review time: 6 Hours, 5 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input 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 checked="" 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

In the proposed manuscript entitled "Screening the RFX6-DNA binding domain for potential genetic variants in patients with type 2 diabetes" Mahmoud and co-authors aim to investigate the potential presence of genetic mutations in the DNA binding

domain of RFX6 gene. The protein coded in this gene is previously known to play a key role in the differentiation of the pancreatic beta cells and insulin synthesis and secretion. The present study is based on data from total of 283 individuals (141 patients with type 2 diabetes mellitus and 142 healthy controls) recruited from Jordanian medical centers. Based on the results from this study, there is no significant genetic variant in the DNA-binding domain that could affect the function of RFX6 in type 2 diabetes mellitus patients. In my opinion as a peer reviewer, the work is well designed and the manuscript is logical and written in a clear way. My only concern is the fact that there is a statistically significant difference between the age and the gender between the control and the diabetic group of individuals (Table 1 and p. 7). The authors may want to discuss this difference.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
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- ☐ Plagiarism
- ☐ No

BPG Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 46296

Title: Screening the RFX6-DNA binding domain for potential genetic variants in patients with type 2 diabetes

Reviewer's code: 03469767

Reviewer's country: Iran

Science editor: Ying Dou

Date sent for review: 2019-02-10

Date reviewed: 2019-02-17

Review time: 21 Hours, 6 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 type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" 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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publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input checked="" 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

calculation for sample size? how the researcher defined the T2DM? separation of results from discussion? discussion need to be re-write. baseline characteristics of participants?



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7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
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