

## PEER-REVIEW REPORT

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

**Manuscript NO:** 35583

**Title:** A Critical Role of Yin-Yang 1 in Autoimmune Hepatitis Through the Regulation of TBX21 Gene Expression Mediated By the T-1993C Polymorphism

**Reviewer's code:** 00503405

**Reviewer's country:** Hungary

**Science editor:** Ya-Juan Ma

**Date sent for review:** 2017-08-10

**Date reviewed:** 2017-08-11

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

## COMMENTS TO AUTHORS

In this original article the authors proposed a schematic model showing high-affinity binding of Yin-yang1 to the -1993C allele site resulting in the downregulation of the TBX21 promoter activity. This mechanism of promoter polymorphism may affect TBX21 expression in type-I autoimmune hepatitis. In active autoimmune hepatitis-I, the authors found that the elevated IFN- $\gamma$  and T-bet expression in peripheral blood CD4<sup>+</sup> T cells and B cells may result from the functional T-1993C variant. The study is well designed and well presented, however, some point needs revision. - How many of the AIH patients were positive for F-actin? Only anti-SMA positivity is not enough for the diagnosis of AIH-1. - The number of AIH1 patients included in the study is quite small. How were their clinical parameters? (incl.: HCV status, comorbidities, smoking and drinking habits, disease onset etc.) - What can be the role of TBX21 in other AIHs, and overlap syndromes? After major revision I suggest to accept the manuscript for publication.

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**Title:** A Critical Role of Yin-Yang 1 in Autoimmune Hepatitis Through the Regulation of TBX21 Gene Expression Mediated By the T-1993C Polymorphism

**Reviewer's code:** 00503536

**Reviewer's country:** Japan

**Science editor:** Ya-Juan Ma

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

## COMMENTS TO AUTHORS

The manuscript written by Suen et al. describes the role of Yin-Yang 1 binding to the TBX21-1993TC allele in the development of autoimmune hepatitis-1 through repression of T-bet. The molecular mechanisms for development of AIH-1 are important and interesting, and the experiments are well performed. However, few data are shown on the clinical features of patients with AIH-1 used for this study. Therefore, clinical significance of the observed phenomenon is hard to understand. In addition, possible contribution of the same mechanism in the development of other autoimmune diseases or viral diseases are unclear. Minor point What are the percentages of patients with AIH-1 having TBX21-1993TC allele or -1993TT allele?