



**ESPS PEER-REVIEW REPORT**

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

**ESPS manuscript NO:** 27355

**Title:** Oral administration of a non-absorbable plant cell-expressed recombinant anti-TNF fusion protein induces immunomodulatory effects and alleviates NASH

**Reviewer's code:** 02861131

**Reviewer's country:** Moldova

**Science editor:** Jing Yu

**Date sent for review:** 2016-05-27 15:32

**Date reviewed:** 2016-06-17 05:55

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 type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input 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 type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

**COMMENTS TO AUTHORS**

Manuscript Number: 27355 Manuscript Title: ORAL ADMINISTRATION OF A NON-ABSORBABLE PLANT CELL-EXPRESSED RECOMBINANT ANTI-TNF FUSION PROTEIN INDUCES IMMUNOMODULATORY EFFECTS AND ALLEVIATES NASH

Comments to Authors

GENERAL COMMENTS (1) The importance of the research and the significance of the research contents; The authors of this article have been evaluate in the high-fat diet model the immunomodulatory effect of oral administration of BY-2 plant cell-expressed recombinant anti-TNF fusion protein (PRX-106) that consists of the soluble form of the human TNF receptor (TNFR) fused to the Fc component of a human IgG1 domain. The importance and significant of the research is high. A chronic inflammatory state is a major condition for developing of various aspects of non-alcoholic steatohepatitis (NASH). Neutralization of TNF-alpha activity is an important therapeutic target in management of fatty liver disease. Orally administered PRX-106, shows biological activity and exerts an immunomodulatory effect. (2) The novelty and innovation of the research; The novelty of the research represents the evidence that PRX-106 may provide an oral immunotherapy for NASH. (3)



## BAISHIDENG PUBLISHING GROUP INC

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)

<http://www.wjgnet.com>

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Presentation and readability of the manuscript; Original article is well organized. (4) Ethics of the research. Animal experiments were carried out according to the guidelines of the Hebrew University-Hadassah Institutional Committee for the Care and Use of Laboratory Animals and with the committee's approval. **SPECIFIC COMMENTS** Title: accurately reflects the major topic and contents of the study. Abstract: it gives a delineation of the research background. The methods are presented clear. Results contain clear, most important information, all abbreviation need to have explanation. Conclusion reflected the result. Introduction: present relevant information about drug used in the study, about aims of the study. Last sentence of introduction contain information from conclusion (that is not relevant for introductory part of article .". The data show that the orally administered, plant cell-expressed recombinant anti-TNF fusion protein is biologically active, and it exerts an immunomodulatory effect alleviating several of the manifestations of NAFLD...." Methods: clear delineated about the group of the mouse, assessment of the effect of oral PRX-106 on the systemic immune system, isolation of splenocytes and hepatic lymphocytes and assessment of the effect of oral PRX-106 on the lipid profile, glucose intolerance and liver damage. Results: authors present interesting and original result, but the main point of this study need to be redirected from diagnostic to biological importance of exposed results. Conclusions: Conclusion reflect the result. References: references are appropriate, relevant, and updated.



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8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

http://www.wjgnet.com

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**ESPS manuscript NO:** 27355

**Title:** Oral administration of a non-absorbable plant cell-expressed recombinant anti-TNF fusion protein induces immunomodulatory effects and alleviates NASH

**Reviewer's code:** 03647461

**Reviewer's country:** United States

**Science editor:** Jing Yu

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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
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

Most of the work relies heavily on qualitative analyses of the treatment by measuring output only. There is no definitive comment on the long term effect of this treatment and its efficacy on NASH