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## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 20713

**Title:** Sulforaphane-rich broccoli sprout extract improves hepatic abnormalities in male subjects

**Reviewer's code:** 01568246

**Reviewer's country:** Norway

**Science editor:** Ya-Juan Ma

**Date sent for review:** 2015-06-19 11:03

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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 checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input checked="" 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 checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" 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 checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

The purpose of the research was to determine whether sulforaphane (SF) will reduce/prevent hepatic abnormalities (measured as release of marker enzymes). The manuscript is well written. The Abstract gives a good overview of the objectives, the methods used, and the data obtained. The main results shows that the aim of the research has been reached. The authors have selected well known markers to evaluate the state of the liver, and are able to draw a relatively reliable conclusion with regard to the effects of the treatment of the (male) participants in the study. The animal (rat) studies also support the conclusion that SF improves liver function through reduction of oxidative stress. The data obtained are interesting and support earlier reports. On the other hand the effects of SF treatment are very small, and further experiments are needed to bring the project further. In a follow-up project it would in particular (as suggested by the authors) be of interest to determine the effects of higher doses of SF-precursor and longer trial periods. The authors should also extend the list of liver function markers. Minor point: The Discussion is good and reads well. However, parts of it could have been used in the Introduction. For a reader not very familiar with the molecular



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mechanisms whereby SF acts it would have been an advantage to be informed in more detail about this topic in the Introduction. Such information is in the present version of the paper in the Discussion.