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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 49795

Title: Zinc-α2-glycoprotein 1 attenuates nonalcoholic fatty liver by negatively regulating tumour necrosis factor-α

Reviewer's code: 00227403

Reviewer's country: Italy

Science editor: Ze-Mao Gong

Reviewer accepted review: 2019-06-23 15:55

Reviewer performed review: 2019-06-26 17:46

Review time: 3 Days and 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	[ ] Accept (High priority)	Peer-Review:
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] Accept (General priority)	[Y] Anonymous
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[Y] Minor revision	[ ] Onymous
[ ] Grade D: Fair	[ ] Grade D: Rejection	[ ] Major revision	Peer-reviewer's expertise on the topic of the manuscript:
[ ] Grade E: Do not publish		[ ] Rejection	[ ] Advanced
			[Y] General
			[ ] No expertise
			Conflicts-of-Interest:
			[ ] Yes
			[Y] No

SPECIFIC COMMENTS TO AUTHORS

In this paper the expression of AZGP1 and its effects on hepatocytes were examined in NAFLD patients, CCl4-treated mice fed a high fat diet (HFD) and human LO2 cells. The expressions of AZGP1 were significantly down-regulated in liver tissues of NAFLD

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patients and mice. In LO2 cells, AZGP1 had the effects of alleviating NAFLD by means of blocking tumour necrosis factor-α (TNF-α) signalling mediated inflammation, intracellular lipid deposition, proliferation and apoptosis. In the section "Materials and methods Human liver tissues" the authors should report the appropriate reference each time that they discuss "a score" or a "Research network". Focusing on patients, the authors should report how the diagnosis of NAFLD was formulated (and how alcohol intake was considered). When the authors describe "Mice were injected with CCl4 (Sigma-Aldrich Corp, St. Louis, MO) three times a week during the final 6 weeks to establish a liver injury and cirrhosis model in HFD+CCl4 and HFD+CCl4+AZGP1 groups; while oil (2ul/g, 3 times a week) for LFD and HFD groups.", was this protocol reported in previous works? When the authors report "Adiponectin is an important adipokine that suppresses lipid accumulation in the liver." To support their sentence, they should cite the review by Prof. Abenavoli, entitled Adiponectin in hepatology. Minerva Biotcenologica 2018; 30:36-40. Pag 18, line 1 please report Liu et al. I suggest to the authors to verify all times this aspect. Since the role of AZGP1 remains unclear, in the discussion the authors should discuss the possibility that AZGP1 loss could be a consequence of an unknown cause and not a cause of damage.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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[Y] No

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 49795

Title: Zinc-α2-glycoprotein 1 attenuates nonalcoholic fatty liver by negatively regulating tumour necrosis factor-α

Reviewer's code: 03645171

Reviewer's country: Italy

Science editor: Ze-Mao Gong

Reviewer accepted review: 2019-06-20 14:14

Reviewer performed review: 2019-07-03 07:07

Review time: 12 Days and 16 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection	Peer-Review: [Y] Anonymous [ ] Onymous Peer-reviewer's expertise on the topic of the manuscript: [ ] Advanced [Y] General [ ] No expertise Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

I believe the manuscript can be accepted after minor revisions: 1. the authors must be more detailed in the references: Any method, protocol or score must be correctly cited 2. the authors should broaden the discussion by hypothesizing further AZGP1 effects, even

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not directly related to NAFLD 3. the authors should point out that the research focuses on hepatocytes in NAFLD patients and there are no associated hepatitis or toxic substances use

INITIAL REVIEW OF THE MANUSCRIPT

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 49795

Title: Zinc-α2-glycoprotein 1 attenuates nonalcoholic fatty liver by negatively regulating tumour necrosis factor-α

Reviewer's code: 02861131

Reviewer's country: Moldova

Science editor: Ze-Mao Gong

Reviewer accepted review: 2019-06-22 13:45

Reviewer performed review: 2019-07-03 21:37

Review time: 11 Days and 7 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection	Peer-Review: [Y] Anonymous [ ] Onymous Peer-reviewer's expertise on the topic of the manuscript: [ ] Advanced [Y] General [ ] No expertise Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Manuscript Number: 49795 Manuscript Title: ZINC-A2-GLYCOPROTEIN 1 ATTENUATES NONALCOHOLIC FATTY LIVER BY NEGATIVELY REGULATING TUMOUR NECROSIS FACTOR-A Comments to Authors GENERAL COMMENTS (1)

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The importance of the research and the significance of the research contents; The authors of this article have been evaluate molecular mechanisms and therapeutic effects of ZINC-A2-GLYCOPROTEIN 1 (AZGP1) in non-alcoholic fatty liver disease (NAFLD). 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. (2) The novelty and innovation of the research; The novelty of the research represents the evidence that AZGP1 loss aggravates liver inflammation, promotes intracellular lipid accumulation, suppresses lipid degradation metabolism, reduces cell proliferation and promotes cell apoptosis. AZGP1 reverses these effects and attenuates NAFLD by blocking the TNF-α. The authors propose AZGP1 as a promising therapeutic candidate for NAFLD. (3) Presentation and readability of the manuscript; Original article is well organized. (4) Ethics of the research. All patients provided written informed consent, and the study was approved by the ethics committee of hospital. (Important to write name of the of institution) Necessary to write how were carried animal experiments. (Like - Animal experiments were carried out according to the guidelines of the local university 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 is gives a delineation of the research background. The methods are presented clear. Results contain clear, most important information, all abbreviations have explanation. Conclusion reflected the result. Introduction: present relevant information about zinc-α2-glycoprotein and aims of the study. Methods: Better to have delineation between human sample and all method which were use and animal sample. Statistical analysis need to be with more informative. Results: authors present interesting and original result, the main point of this study is directed to biological

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importance of exposed results. Figures and table: very good explain the result of study, relevant and understandable Conclusions: Conclusion reflect the result. References: references are appropriate, relevant, and updated.

INITIAL REVIEW OF THE MANUSCRIPT

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[Y] No

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