

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 60352

Title: Sinapic acid ameliorates D-galactosamine/lipopolysaccharide-induced fulminant hepatitis in rats: Role of nuclear factor erythroid-related factor 2/heme oxygenase-1 pathways

Reviewer's code: 03536031

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Chile

Author's Country/Territory: Saudi Arabia

Manuscript submission date: 2020-10-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-10-27 06:38

Reviewer performed review: 2020-11-11 12:57

Review time: 15 Days and 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

SPECIFIC COMMENTS TO AUTHORS

The manuscript is interesting. The methodology used is adequate and consistent with the objective of the study. The results support the discussion. However, I have the following comments. I. Major Comments: 1. The expression and activity of the transcription factor Nrf2 depend on oxidative stress. Changes that modify the antioxidant and anti-inflammatory response. Discuss this point. Suggested reference: Docosahexaenoic acid and hydroxytyrosol co-administration fully prevents liver steatosis and related parameters in mice subjected to high-fat diet: A molecular approach. *Biofactors*. 2019; 45: 930-943. PMID: 31454114 2. Inflammation and subsequent cellular damage is determined by oxidative stress. In this regard, the modulation of Nrf2 directly influences the changes in the activity of NF- κ B. This interaction is essential to understand the benefits generated by the intervention. Discuss this point. Molecular adaptations underlying the beneficial effects of hydroxytyrosol in the pathogenic alterations induced by a high-fat diet in mouse liver: PPAR- α and Nrf2 activation, and NF- κ B down-regulation. *Food Funct*. 2017; 8: 1526-1537. PMID: 28386616 3. A relevant aspect to understand the hepatoprotective effects and the mechanisms involved is to link the molecular changes described with the prevention of mitochondrial dysfunction. The prevention of cellular damage is mainly explained by the conservation of mitochondrial activity. In this regard, the modulation of oxidative stress and inflammation influence the activity of other transcription factors and pathways involved in the function of the mitochondria. Suggested references: Impact of the Co-Administration of N-3 Fatty Acids and Olive Oil Components in Preclinical Nonalcoholic Fatty Liver Disease Models: A Mechanistic View. *Nutrients*. 2020 Feb; 12: 499. PMID: 32075238 Suppression of high-fat diet-induced obesity-associated liver mitochondrial dysfunction by

docosahexaenoic acid and hydroxytyrosol co-administration. Dig Liver Dis. 2020; 52: 895-904. PMID: 32620521 II. Minor comments: 1. Include the weight of animals and livers. Were significant differences observed? 2. In the figure legends include the number (n) of animals 3. Figure 6, is it possible to include a damage score ?. Also, arrows with different colors are difficult to understand. I suggest changing.

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Title: Sinapic acid ameliorates D-galactosamine/lipopolysaccharide-induced fulminant hepatitis in rats: Role of nuclear factor erythroid-related factor 2/heme oxygenase-1 pathways

Reviewer's code: 02887546

Position: Editorial Board

Academic degree: MAMS, MBBS, PhD

Professional title: Dean, Doctor, Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Saudi Arabia

Manuscript submission date: 2020-10-26

Reviewer chosen by: Xi-Fang Chen (Part-Time Editor)

Reviewer accepted review: 2020-11-11 11:55

Reviewer performed review: 2020-11-20 06:53

Review time: 8 Days and 18 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous

SPECIFIC COMMENTS TO AUTHORS

60352 check list Sinapic acid ameliorates D-GalN/LPS-induced fulminant hepatitis in rats: Role of Nrf2/HO-1 pathways Title. Does the title reflect the main subject/hypothesis of the manuscript? YES 2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? YES 3 Key words. Do the key words reflect the focus of the manuscript? YES 4 Background. Does the manuscript adequately describe the background, present status and significance of the study? YES 5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? YES 6 Results. Are the research objectives achieved by the experiments used in this study? YES What are the contributions that the study has made for research progress in this field? The authors have reiterated the usefulness of sinapic acid in protecting the liver from the toxic effects of LPS/D-GalN-induced acute liver failure. 7 Discussion. Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? YES Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? YES Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently? YES 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? Do figures require labeling with arrows, asterisks etc., better legends? YES 9 Biostatistics. Does the manuscript meet the requirements of biostatistics? YES 10 Units. Does the manuscript meet the requirements of use of SI units? YES 11 References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite and/or over-cite

references? YES 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? YES Is the style, language and grammar accurate and appropriate? No GRAMMATICAL CORRECTIONS SUGGESTED IN RETURNED MANUSCRIPT. 13 Research methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement - Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? YES 14 Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? YES AUTHORS MAY MAKE THE SUGGESTED CORRECTIONS IN THE MANUSCRIPT RETURNED. 1. Grammatical corrections to be made. 2. p value should be uniformly either small p or Capital P.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's code: 02887546

Position: Editorial Board

Academic degree: MAMS, MBBS, PhD

Professional title: Dean, Doctor, Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Saudi Arabia

Manuscript submission date: 2020-10-26

Reviewer chosen by: Chen-Chen Gao

Reviewer accepted review: 2020-12-01 14:22

Reviewer performed review: 2020-12-01 15:17

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

Nil