

PEER-REVIEW REPORT

Name of journal: *World Journal of Hepatology*

Manuscript NO: 64891

Title: Fatty acid metabolism and acyl-CoA synthetases in the liver-gut axis

Reviewer's code: 05275052

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor, Director

Reviewer's Country/Territory: Ukraine

Author's Country/Territory: Germany

Manuscript submission date: 2021-02-25

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-21 09:23

Reviewer performed review: 2021-05-01 10:08

Review time: 10 Days

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 Grade E: Do not publish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 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 checked="" 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 statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

This review of the literature "Long-chain fatty acids, short-chain fatty acids, acyl-CoA synthetases, microbiota, and liver-gut axis" completely describes the problem of the short-chain fatty acids and its role in the "gut-liver axis". The manuscript includes the latest concerning the pharmacological targeting effect on the short-chain fatty acids production and long-term consequences which are associated with it. As far as we know, no previous research has investigated this problem fundamentally. Nevertheless, given the name "Long-chain fatty acids, short-chain fatty acids, acyl-CoA synthetases, microbiota, and liver-gut axis", in this manuscript there are very little data about gut microbiota species and its impact on short-chain fatty acids as one of the important ways for gut-liver axis induction. Additionally, there are insufficient information about the problem of intestine excessive bacterial growth (SIBO) and gram-negative microbiota, which are often acts as the trigger of cascade reactions which are leading to "Gut-liver" start. Summarizing this review, I recommend this work to publication in World Journal of Hepatology, with minor refinements to the above points.