



PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 65701

Title: Palmitoylation in Crohn's disease: Current status and future directions

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02997260

Position: Peer Reviewer

Academic degree: PhD

Professional title: Senior Researcher

Reviewer's Country/Territory: Lithuania

Author's Country/Territory: China

Manuscript submission date: 2021-03-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-22 04:52

Reviewer performed review: 2021-03-22 08:33

Review time: 3 Hours

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 Grade E: Do not publish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 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 checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Overall, the article is well prepared and innovative. It may instigate a fresh look at the CD pathogenesis and therefore the review can attract a lot of WJG readers' interest. To make it more informative and easier to read, I suggest merging the short descriptions of signaling pathways and their palmitoylation with an aim to present more clearly what are the consequences (positive, negative, questionable) of the palmitoylation process on the CD development and course. In connection with this aforementioned suggestion, please, provide a more detailed analysis of how palmitoylation influences TLR signaling and what the consequences are for the CD course when NF- κ B activation is impaired. A more strong justification of the role of palmitoylation in CD is highly desirable as the concluding remarks of the review. Additionally, here are some technical remarks for improving the text: Please, provide full names for all abbreviations of molecules and genes when they are mentioned for the first time. Please, provide a reference for this statement: "NOD1/2 mutations are also associated with IBD. Interestingly, several of these mutations decrease the palmitoylation of NOD1/2 and inhibit NF- κ B activation."



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Reviewer's code: 05386200

Position: Peer Reviewer

Academic degree: MD

Professional title: Senior Scientist, Surgeon

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-20 16:38

Reviewer performed review: 2021-04-06 20:26

Review time: 17 Days and 3 Hours

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
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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The manuscript entitled "Palmitoylation in Crohn's disease: Current status and future directions" by Cheng et al. addresses an important topic and shows potential links between palmitoylation and Crohn's disease. Based on the current available studies the authors summarize the most important findings and give a sufficient overview about this topic. Therefore the manuscript can be recommended for publication in WJG.