



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 54032

Title: Intestinal dysbiosis in pediatric Crohn's disease patients with I Y0RA mutations

Reviewer's code: 01944824

Position: Editorial Board

Academic degree: MD

Professional title: Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2020-01-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-01-06 12:11

Reviewer performed review: 2020-01-06 16:06

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 Grade E: Do not publish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 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 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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

SPECIFIC COMMENTS TO AUTHORS

This interesting, observational study by Xue and colleagues examines the fecal microbiota characteristics in a small group of patients with very early onset IBD, associated with IL10RA mutations, and compares these findings with healthy controls and with Crohn disease patients. The information included in the report is important and informs on early (at <1 year of age) differences in fecal microbial populations characteristic of IBD subjects. Specifically, clear similarities were found in IL10RA and CD (I assume w/o IL10RA mutations) subgroups, suggesting that the immune mediated changes occur very early in the course of disease. The authors should address the following concerns: Patients with IL10RA mutations had early disease onset and exhibited more severe colitis 1. Conclusions in the abstract should not include the statement, "Patients with IL10RA mutations had early disease onset and exhibited more severe colitis". The statement should more appropriately read, "In patients with 1L10RA mutations and early onset IBD, gut dysbiosis....." 2. Page 5, paragraph 2: The authors should state that IBD (in animal models) occurs only in the presence of intestinal microbiota, as germ-free animals do not develop colitis. IL10-/- mice are not "dependent" on microbiota, IBD is. 3. Page 6, paragraph 1: The authors imply that patients with 1l10RA mutations ranged up to 18 years of age. I fund this difficult to comprehend, as the mean age of these subjects, as indicated in Table 1, was 1 year. Please clarify. 4. Page 6, paragraph 1: Were the CD subjects screened for relevant mutations? This should be addressed. 5. Table 1: Approximately 80% of IL10RA mutation subjects were breast fed. Were these infants exclusively breast fed? Were differences in microbiota found between exclusively breast fed infants and others in this study group. As exclusive breast feeding exerts a profound effect on the nature and diversity of the fecal microbiome, this should be addressed. Overall, the article contains numerous grammar and syntax errors, requiring relatively minor language polishing.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2020-01-06

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-04-02 01:18

Reviewer performed review: 2020-04-02 14:59

Review time: 13 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 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
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

SPECIFIC COMMENTS TO AUTHORS

All concerns have been appropriately addressed