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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 34845

Title: Analysis of distinct community structure under fecal and mucosal microbiota and their correlation with TLR2 and TLR4 expressions

Reviewer's code: 00504462

Reviewer's country: Mexico

Science editor: Ya-Juan Ma

Date sent for review: 2017-06-12

Date reviewed: 2017-06-29

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Dear Sir, There are some grammatical corrections that need to be done, and right now, the only consideration that you need to clarify is where the biopsies were taken, and the methodology for getting the LM. One final question is that we know that the microbiota changes during the lifetime, and while we get older the diversity diminished, for example. Your population age goes from 29 to 65 years old. Did you take the age into your considerations. Hope to hear from you soon Sincerely



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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 34845

Title: Analysis of distinct community structure under fecal and mucosal microbiota and their correlation with TLR2 and TLR4 expressions

Reviewer's code: 02839880

Reviewer's country: Italy

Science editor: Ya-Juan Ma

Date sent for review: 2017-07-01

Date reviewed: 2017-07-17

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

This is an interesting paper that investigated the intestinal Luminal Microbiota (LM) and the mucosa-associated microbiota (MAM) in Chinese people and examined the association between these communities and the expression of TLR2 and TLR4. The manuscript is well written; I would suggest to check all the abbreviations (mainly in the abstract) and use the full terms when they are used for the first time in the text. also please correct some typo errors in the titles of paragraphs (e.g. "The expression characteristic of mucosal TLR2 and TLR4"; "Correlations between gut microbiota and TLR4 expression" and so on...). Statistical analysis was well conducted. Figures and tables are clear and exhaustive. I would include some updated references on the topic in the discussion (e.g. Nolfo F et al, BMC Surg 2013; Uccello M, et al, BMC Surg 2012)



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 34845

Title: Analysis of distinct community structure under fecal and mucosal microbiota and their correlation with TLR2 and TLR4 expressions

Reviewer's code: 02445638

Reviewer's country: United States

Science editor: Ya-Juan Ma

Date sent for review: 2017-07-01

Date reviewed: 2017-07-17

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

Li-na Dong et al. have examined the microbiota from the intestinal lumen (LM) and mucosa (MAM) in a group of 32 Chinese patients with abdominal discomfort and no prior treatment for 6 months at sample collection. Clinical diagnosis was not given, and perhaps not established at the time of the study. Total genomic DNA was made from specimens and screened for the hypervariable region (V3-V4) of bacterial 16SRNA to identify microbial phylum. Expression levels for the Toll-like receptor genes TLR2 and TLR4 in MAM were determined by qPCR. Significance between two groups was determined by Students t-test and Mann-Whitney, correlations were made by Spearman's correlation. Higher microbial diversity was found in LM compared to MAM, with Bacteroidetes and Firmicutes predominating in LM and Proteobacteria in MAM. Lower levels of TRL2 and TRL4 were observed correlating with Firmicutes from MAM, specifically Streptococcus and Granulicatella (TRL2) and Ruminococcus and



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Faecalibacterium (TRL4). LM had a correlation of significantly lower TLR2 and Faecalibacterium. The manuscript comes across as a nice start to a study that needs further support and proof of possible immunological correlation with certain microbial phylum and presumably disease. A major problem is that there is no real clinical data to compare with their correlations other than non-specific “abdominal discomfort”. Also, there is no molecular work on the protein level to substantiate the correlation between those phylum and immune response. The discussion could better define the implications and importance of their findings. There are multiple grammatical and spelling errors throughout. As it stands, I do not recommend the study for publication.