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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 41795

Title: The gut microbiota may be key to maintenance of healthy condition during activities of daily living

Reviewer's code: 02631746

Reviewer's country: United States

Science editor: Xue-Jiao Wang

Date sent for review: 2018-08-28

Date reviewed: 2018-08-28

Review time: 14 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The author as done a good job of summarizing the role of gut microbiota in age related diseases.



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INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 41795

Title: The gut microbiota may be key to maintenance of healthy condition during activities of daily living

Reviewer's code: 03648086

Reviewer's country: United States

Science editor: Xue-Jiao Wang

Date sent for review: 2018-08-27

Date reviewed: 2018-08-31

Review time: 4 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This review article summarizes the recent findings in the field of gut microbiota for several common diseases that are main causes to the reduced activities of daily living (ADL) reflecting a poor quality of life in elderly people. Major concerns: Obviously,

there are several latest yet important studies just coming out recently and the Author should add in these advancements in the field so that to enhance the overall quality of this review. Especially the following should be mentioned: Butyrate and Dietary Soluble Fiber Improve Neuroinflammation Associated With Aging in Mice. Matt SM, Allen JM, Lawson MA, Mailing LJ, Woods JA, Johnson RW. Front Immunol. 2018 Aug 14;9:1832. doi: 10.3389/fimmu.2018.01832. eCollection 2018. PMID: 30154787 Cultivable butyrate-producing bacteria of elderly Japanese diagnosed with Alzheimer's disease. Nguyen TTT, Fujimura Y, Mimura I, Fujii Y, Nguyen NL, Arakawa K, Morita H. J Microbiol. 2018 Aug 22. doi: 10.1007/s12275-018-8297-7. [Epub ahead of print] PMID: 30136260 Age-related changes in the gut microbiota influence systemic inflammation and stroke outcome. Spychala MS, Venna VR, Jandzinski M, Doran SJ, Durgan DJ, Ganesh BP, Ajami NJ, Putluri N, Graf J, Bryan RM, McCullough LD. Ann Neurol. 2018 May 7. doi: 10.1002/ana.25250. [Epub ahead of print] PMID: 29733457 Vascular Cognitive Impairment and the Gut Microbiota. Li S, Shao Y, Li K, HuangFu C, Wang W, Liu Z, Cai Z, Zhao B. J Alzheimers Dis. 2018;63(4):1209-1222. doi: 10.3233/JAD-171103. PMID: 29689727

Minor changes: While the article reads well overall, some minor modifications might be helpful to improve the quality of this article further: The title: The gut microbiota is just one of many important factors that could impact human health and can be an important factor in maintenance of human health. While there has been lack of well-designed integral studies as far determining a “key” out of multiple factors to the maintenance of healthy condition during activities of daily living, it would be advisable that the author modifies the title as “The gut microbiota in common elderly diseases affecting activities of daily living”. This would reflect the content of this review even better, which focuses on gut microbiota alterations in several common elderly diseases. Accordingly, in the last sentence of the Abstract, the Author could modify “may be a promising strategy” to “could be a promising approach.” Similarly, on the



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page 4, in the last paragraph the “a key strategy” could be changed to “a promising strategy.” On the page 5, Under the title “Alzheimer’s disease (AD)” in line 3 the “necroinflammatory” should be “neuroinflammatory.” On the page 8, in the last sentence of the first paragraph the “inflammatory reactions in bone” could be modified as “reduced inflammatory reactions in bone.” On the page 8, line 3, the “with these parameters become normalized after colonization” should be changed as “with these parameters becoming normalized after colonization (give ref. 9).” On the page 8, line 5-6, the “are reduced in bone marrow GM mice” should be changed as “are reduced in bone marrow of GM mice.”

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
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BPG Search:

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