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ESPS Peer-review Report
Name of Journal: World Journal of Gastroenterology
ESPS Manuscript NO: 10120
Title: Archaea and the human gut: the new beginning of an old story
Reviewer code: 02533276
Science editor: Ya-Juan Ma
Date sent for review: 2014-03-14 12:14
Date reviewed: 2014-03-21 00:29

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[ ] Grade A (Excellent)	[ ] Grade A: Priority Publishing	Google Search:	[Y] Accept
[Y] Grade B (Very good)	[Y] Grade B: minor language polishing	[ ] Existed	[ ] High priority for publication
[ ] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	
[ ] Grade D (Fair)		BPG Search:	[ ]Rejection
[ ] Grade E (Poor)	[ ] Grade D: rejected	[ ] Existed	[ ] Minor revision
		[ ] No records	[ ] Major revision

COMMENTS TO AUTHORS

The manuscript "Archaea and the human gut: the new beginning of an old story" by Garci et al, is a review of literature, describing the archaea and more particularly methanogens present in the human gastrointestinal tract (GIT). The authors briefly describe the methanogenesis process as well as the metabolism and adaptations of Methanobervibacter smithii, the most abundant human gut methanogen. Furthermore, the manuscript discusses the novel archaeal phylotypes associated with the human GIT, focusing on the recently discovered order Methanomassiliicoccales. Finally, this review summarizes the possible associations of methanogens with some human diseases, pointing out the potential positive impact that may have the Methanomassiliicoccales as a TMA depleting agent in the intestinal human microbiota. This review is clear and concise and very helpful and informative for the readers. The English of the manuscript is clear except minor mistakes that must be corrected; the word written as "periodontis" should be corrected as "periodontitis".

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ESPS Peer-review Report
Name of Journal: World Journal of Gastroenterology
ESPS Manuscript NO: 10120
Title: Archaea and the human gut: the new beginning of an old story
Reviewer code: 02462231
Science editor: Ya-Juan Ma
Date sent for review: 2014-03-14 12:14
Date reviewed: 2014-04-17 20:33

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[ ] Grade A (Excellent)	[ ] Grade A: Priority Publishing	Google Search:	[ ] Accept
[ ] Grade B (Very good)	[Y] Grade B: minor language polishing	[ ] Existed	[ ] High priority for publication
[Y] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	[Y]Rejection
[ ] Grade D (Fair)	[ ] Grade D: rejected	BPG Search:	[ ] Minor revision
[ ] Grade E (Poor)		[ ] Existed	[ ] Major revision
		[ ] No records	

COMMENTS TO AUTHORS
A well written and interesting manuscript describing a relatively niche topic which is under-represented in the current literature. The review is comprehensive and builds on the recent genomics information available.

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ESPS Peer-review Report
Name of Journal: World Journal of Gastroenterology
ESPS Manuscript NO: 10120
Title: Archaea and the human gut: the new beginning of an old story
Reviewer code: 00058441
Science editor: Ya-Juan Ma
Date sent for review: 2014-03-14 12:14
Date reviewed: 2014-04-22 20:41

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
[Y] Grade A (Excellent)	[ ] Grade A: Priority Publishing	Google Search:	[Y] Accept
[ ] Grade B (Very good)	[Y] Grade B: minor language polishing	[ ] Existed	[ ] High priority for publication
[ ] Grade C (Good)	[ ] Grade C: a great deal of language polishing	[ ] No records	[ ]Rejection
[ ] Grade D (Fair)	[ ] Grade D: rejected	BPG Search:	[ ] Minor revision
[ ] Grade E (Poor)		[ ] Existed	[ ] Major revision
		[ ] No records	

COMMENTS TO AUTHORS

This review manuscript focus on the current knowledge for Methanogenic archaea in human guts and potential association between some diseases and the level of methanogens. TMA depletion as a beneficial action of methanogens indicating the potential role as a probiotics. This review is interesting and fit into the global interest in terms of the relationship between microbiota and diseases. I only have few points to make: (1) This manuscript is well written. However, I can still find out some typos. Authors are suggested to proofread manuscripts again. (ex: wheren? at page 7, par? gram in page 10..) (2) In Table 2: "Higher levels of methanogens in obese[127]" should be modified as "Higher levels of methanogens in obese after gastric bypass[127]"