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PEER-REVIEW REPORT

Name of journal: World Journal of Medical Genetics
Manuscript NO: 36206
Title: Pedigree analysis supports a correlation between an AXIN2 variant and polyposis/colorectal cancer
Reviewer's code: 00646291
Reviewer's country: United Kingdom
Science editor: Fang-Fang Ji
Date sent for review: 2017-09-22
Date reviewed: 2017-09-24
Review time: 2 Days

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

COMMENTS TO AUTHORS

Please consider the inclusion of an additional figure indicating the pathway linking AXIN2 with beta catenin, and Wnt target genes leading to colorectal cancer. Please consider providing a more detailed figure legend for the figure 1. Please consider mentioning explicitly the transcription factors implied at the end of the sentence "This leads to an increase of b-catenin in the cytoplasm of a cell and an eventual translocation into the nucleus, where it acts as a transcriptional co-activator of transcription factors." Minor typographical errors should be corrected: "When a mutation in the AXIN2 gene occurs, the resulting transcribed mRNA transcribed is truncated…"

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PEER-REVIEW REPORT

Name of journal: World Journal of Medical Genetics
Manuscript NO: 36206
Title: Pedigree analysis supports a correlation between an AXIN2 variant and polyposis/colorectal cancer
Reviewer's code: 00504436
Reviewer's country: Serbia
Science editor: Fang-Fang Ji
Date sent for review: 2017-09-22
Date reviewed: 2017-09-25
Review time: 3 Days

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

COMMENTS TO AUTHORS

GENERAL COMMENTS (1) The importance of the research and the significance of the research contents - high (2) The novelty and innovation of the research - high (3) Presentation and readability of the manuscript – could be improved Minor remarks: • Grammar and style should have minor revision. • Some of the references are inadequate and old, and some new should be added. • Technical errors in the text (spacing, page numbers are missing, etc.)

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PEER-REVIEW REPORT

Name of journal: World Journal of Medical Genetics
Manuscript NO: 36206
Title: Pedigree analysis supports a correlation between an AXIN2 variant and polyposis/colorectal cancer
Reviewer's code: 00289387
Reviewer's country: China
Science editor: Fang-Fang Ji
Date sent for review: 2017-09-22
Date reviewed: 2017-10-07
Review time: 14 Days

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

COMMENTS TO AUTHORS

Drs. Lamba et al reported a case with a number of colonic polyposis and family history significant for colon polyps and colorectal cancer (CRC). Genetic screening revealed the mutation of AXIN2 gene, a previously unpublished variant of unknown significance (VUS) and mediates Wnt signaling. This result was consistent with previous two reports that exhibited oligodontia, colorectal neoplasia and AXIN2 mutation. This study may implicate the importance for genetic screening of patients with colonic polyposis and potential to develop CRC. A few concerns have to be addressed. 1) The figure labeling is unclear and confusion. Circle symbols did not match up with description, same repeated symbols with different meanings, what do square symbols mean, and what does an arrow indicate? 2) Did the genetic test have the results of gene mutation status such as p53 and Kras that are associated with CRC? 3) The family has

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history with early tooth and jaw loss. What is potential mechanism that is linked to the mutation of AXIN2? Please add it in the Discussion.