

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Virology

**ESPS manuscript NO:** 27433

**Title:** Regulation of Wnt/ $\beta$ -catenin signaling by herpesviruses

**Reviewer's code:** 02446947

**Reviewer's country:** Australia

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2016-05-30 09:52

**Date reviewed:** 2016-06-01 12:37

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input 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"/> Plagiarism	<input checked="" 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

Overall the review by Zvezdaryk et al. on the regulation of Wnt/ $\beta$ -catenin signaling by herpesviruses is quite thorough and well written. There are a number of points though to address which would improve clarity: (1) Inclusion of further subheadings within each section (aside from the introduction and speculation/summary sections) (2) Inclusion of a table which summarises the findings on various human herpesviruses and their regulation of Wnt/ $\beta$ -catenin signalling (3)

Relevant reviews on each human herpesvirus should be cited at the point each virus is introduced in the text. Minor corrections (1) Page 1, introduction: the reference to "Axin mutations" is not clear as Axin and its link to Wnt/ $\beta$ -catenin signaling has not been defined at this point (2) Page 1, introduction: "accumulating data are" should be "accumulating data is" (3) Page 2, What specifically is meant by "Wnt glycoproteins"? (4) Page 2, APC already defined on page 1 (5)

Page 2, "is then identified" should be "is then recognised" (6) Page 2, "Wnt target gene expression." Delete extra fullstop (7) Page 2, LEF is not defined (8) Page 2, Herpesviruses section: other relevant reviews on Herpesviridae should be cited such as Fields virology and also for classification should cite Davison et al Arch Virol 2009, 154, 171-177. (9) Page 2, Herpesviruses



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section: It should be noted that Herpesviridae is part of the order Herpesvirales as well. (10) Page 2, Herpesviruses section: A reference or website source relating to the statement "There are over 130 herpesviruses.." should be included. (11) Page 3, "has not been minimally investigated" maybe change to "has been underinvestigated." (12) Page 4, delete extra full stop on the last line (13) Page 5, last line should read "viral assembly protein" (14) Page 6, should read "As data shows that HCMV infection" (15) A paragraph break in the section "Speculation and questions" would be helpful (16) Figure 4 legend: should be "Sarcoma-associated"

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Virology

**ESPS manuscript NO:** 27433

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<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input 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"/> Plagiarism	<input checked="" 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

Kevin and colleagues here summarized the recent findings about how major herpesvirus family (alpha, beta and gamma) members manipulate Wnt/ $\beta$ -catenin signaling cascade. This is an interesting topic which using Wnt/ $\beta$ -catenin as an example to prove the virus-host interaction contributed to herpesvirus pathogenesis. I only have a few minor comments for the authors: 1. Are there the differentiate activities of Wnt/ $\beta$ -catenin signaling between HCMV+ GBM and HCMV-GBM samples? 2. Do the inhibitors of Wnt/ $\beta$ -catenin signaling display anti-cancer effects on herpesvirus such as EBV or KSHV-related malignancies? 3. There are some small spelling and grammar errors in the text which should be corrected.



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## ESPS PEER-REVIEW REPORT

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<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
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		[Y] No	

### COMMENTS TO AUTHORS

Please consider some small amendments directly shown up in the manuscript. There are 3 remarks (numbered 1, 2 and 3) suggested, which could be considered by the authors, but are not obligatory if they would be reluctant to insert some them into the manuscript. The only objection is that the reviewer denies the statement that HCMV would cause (or be associated with) glioblastoma.



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## ESPS PEER-REVIEW REPORT

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**Science editor:** Fang-Fang Ji  
**Date sent for review:** 2016-05-30 09:52  
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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

I would suggest adding a phosphate to the B-catenin in Figure 2 that is on the DNA in the nucleus since you say it is phosphorylated by AKT on serine 552. Also on page bottom of page 5 I would rephrase "has not been minimally investigated" as this may imply that it has been heavily investigated.