



# BAISHIDENG PUBLISHING GROUP INC

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

http://www.wjgnet.com

## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 14890

**Title:** Purinergic signaling and human immunodeficiency virus/acquired immune deficiency syndrome: From viral entry to therapy

**Reviewer's code:** 00503963

**Reviewer's country:** China

**Science editor:** Xue-Mei Gong

**Date sent for review:** 2014-10-29 20:21

**Date reviewed:** 2014-11-24 09:22

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 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 checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	[Y] No	<input type="checkbox"/> Minor revision
		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

### COMMENTS TO AUTHORS

1. In my opinion, I fell the description of thistopic is too superficial, most content needs to discussed more detailed. For example, the section "HIV infection and the immune system", only general immune response was described, no description concerning on the HIV specific immune response.
2. About purigenic signaling, the authors need to discuss the signal transduction crosstalk and networks.
3. Some good figures are required for a review paper.
4. Are there any significant data suggest the purinergic receptor, ATP/ adenosine and ATP analogs as potential therapeutic targets? It is difficult convincing readers these molecules could serve as drug candidates.



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

**ESPS manuscript NO:** 14890

**Title:** Purinergic signaling and human immunodeficiency virus/acquired immune deficiency syndrome: From viral entry to therapy

**Reviewer's code:** 00504918

**Reviewer's country:** United States

**Science editor:** Xue-Mei Gong

**Date sent for review:** 2014-10-29 20:21

**Date reviewed:** 2014-11-26 03:11

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 type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input checked="" 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

This is a pretty good review with some good and useful information of the role of purinergic signaling in HIV and how it can be thought of as an area to target HIV. The intro lacks some explanations and definitions so it starts out a little unclear but the bulk of the manuscript is written pretty well. I would suggest improving the intro by defining some things up front: for example describe exactly what the purinergic signaling system is in the intro to make it clear what you will be talking about, also NTPDase is not defined in the intro or what it does which could help the reader as you introduce the system for the first time to the reader. ADA is not defined in intro either but then later is defined as ectoadenosine deaminase on page 6 then redefined on page 12 as adenosine deaminase. HAND is not defined. Then little things like it isn't control of "the" HIV infection, it is control of HIV infection. This should be corrected throughout.



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

**ESPS manuscript NO:** 14890

**Title:** Purinergic signaling and human immunodeficiency virus/acquired immune deficiency syndrome: From viral entry to therapy

**Reviewer's code:** 02446947

**Reviewer's country:** Australia

**Science editor:** Xue-Mei Gong

**Date sent for review:** 2014-10-29 20:21

**Date reviewed:** 2014-11-28 10:05

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
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		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

Overall a timely review which covers an important topic. Minor corrections and comments are provided as track changes in the original manuscript.