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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases

ESPS manuscript NO: 22890

Title: Systems biology applications to study mechanisms of human immunodeficiency virus latency and reactivation

Reviewer's code: 00506525

Reviewer's country: Mexico

Science editor: Shui Qiu

Date sent for review: 2015-10-07 18:35

Date reviewed: 2015-10-13 08:52

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 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		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

1. At the foot of Table 2, there is a typo.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases

ESPS manuscript NO: 22890

Title: Systems biology applications to study mechanisms of human immunodeficiency virus latency and reactivation

Reviewer's code: 00465176

Reviewer's country: United States

Science editor: Shui Qiu

Date sent for review: 2015-10-07 18:35

Date reviewed: 2015-11-11 01:45

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 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		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

This manuscript reviews an important topic but needs to have better focus. More specifically the text should be reduced and additional summary figures need to be include. For example a figure summarizing the mechanisms of latency and how all the targets that are described in these tables can overlap to make meaningful conclusions. The authors should be better summarize the literature in a concise way and integrate conclusions and interpretation rather than just a list of targets that has been described. The reviewer feels that the authors can do a better job synthesizing the data.



ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases
ESPS manuscript NO: 22890
Title: Systems biology applications to study mechanisms of human immunodeficiency virus latency and reactivation
Reviewer's code: 00504109
Reviewer's country: Greece
Science editor: Shui Qiu
Date sent for review: 2015-10-07 18:35
Date reviewed: 2015-11-18 23:23

Table with 4 columns: CLASSIFICATION, LANGUAGE EVALUATION, SCIENTIFIC MISCONDUCT, CONCLUSION. It contains checkboxes for various evaluation criteria like 'Grade A: Excellent', 'Priority publishing', 'Google Search', etc.

COMMENTS TO AUTHORS

General comment The review manuscript reviewed aims at summarizing gene expression profiling and systems biology applications to studies of HIV research focusing on HIV latency and HIV eradication/cure. The topic reviewed is of interest but the review ended to be huge and its text should be reduced. For example figures or summarizing tables could be used instead of extended text. At the The literature should be also summarized in concise way in order to present specific findings rather than all the targets that have been described. The language used throughout the manuscript is clear, correct, and unambiguous. Specific comments 1. The review does not contain information on the mechanisms and the different forms of latency (HIV-1 DNA) within the host cells (as for example reviewed in Current HIV Research, 2009, 7, 255-265). Those should be discussed/reviewed and how all the described targets act or correlate to them. 2. In the segment of evaluating the levels of HIV RNA, it would be of interest to include not only the RNA-seq methodologies, but also the sensitive assays that can detect and quantify intracellular or plasma HIV-RNA down to 1 cop/ml (there is a long list of those assays, but also really nice reviews)



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Infectious Diseases

ESPS manuscript NO: 22890

Title: Systems biology applications to study mechanisms of human immunodeficiency virus latency and reactivation

Reviewer's code: 00504882

Reviewer's country: United States

Science editor: Shui Qiu

Date sent for review: 2015-10-07 18:35

Date reviewed: 2015-11-18 23:59

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

COMMENTS TO AUTHORS

The purpose of this review is to summarize gene expression profiling and systems biology applications to studies of HIV latency and eradication. They have listed many genes expressed in latently infected and uninfected cells but failed to make any consensus or identify any latency biomarkers. The entire review is well written but the objective of the review is not achieved. It would be appropriate if authors could have validated the review's objective by identify at last one biomarkers from the vast data available in the literature.