



**ESPS PEER-REVIEW REPORT**

**Name of journal:** World Journal of Virology  
**ESPS manuscript NO:** 16392  
**Title:** Can antiretroviral therapy be tailored to each human immunodeficiency virus-infected individual? Role of pharmacogenomics  
**Reviewer’s code:** 00053940  
**Reviewer’s country:** Italy  
**Science editor:** Fang-Fang Ji  
**Date sent for review:** 2015-01-16 15:10  
**Date reviewed:** 2015-04-14 14:28

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 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 NICE REVIEW OF A RELEVANT AND TIMELY TOPIC. I have few suggestions for the authors. Page 3, line 2. I agree that ART has become highly effective, but I don’t think that HIV infection is “easy to handle”. This paper is a clear demonstration of how ART is a complex medical decision, based not only on viro-immunologic and clinical considerations, but also on PK/PD considerations, patient preference and adherence issues and, last but not least, also on pharmacogenomics (as specified in the second paragraph). Please modify the sentence. Subheadings (Introduction and, page10, last paragraph, discussion and conclusion) should be inserted. Efavirenz disposition....(page 8). The utility of genotype-driven EFV dose adjustments has been evaluated in several studies (e.g., Aurrubul et, al. Curr HIV res, 2012; Manosuthi et al, Antimicrob Agents Chemother, 2013). There is also evidence of successful EFV dose reduction in individuals with cytochrome P450 2B\*6 and\* 26 (see Gatanaga et al, CID 2007). The clinical implication of these observations needs to be taken in consideration here and in the discussion. Discussion and conclusions. The authors have examined through the text and in tables most of



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relevant genetic determinants of antiretroviral drug pharmacokinetics and toxicity. I suggest focusing in this section of the paper on the most relevant clinical implications of pharmacogenomics (e.g., ABC use and HLAB 5701, EFV dose reduction, and so on.)



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## ESPS PEER-REVIEW REPORT

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

**ESPS manuscript NO:** 16392

**Title:** Can antiretroviral therapy be tailored to each human immunodeficiency virus-infected individual? Role of pharmacogenomics

**Reviewer's code:** 03084412

**Reviewer's country:** China

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2015-01-16 15:10

**Date reviewed:** 2015-04-10 00:40

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

This manuscript, NO: 16392, entitled " Can the antiretroviral therapy be tailored to each HIV-infected individual? Role of pharmacogenomics." describes and illustrates how pharmacogenetics impact on the efficacy of the antiretroviral drugs by improving the PK parameters and decreasing the side effects. The review is clear ,brief and well organized. However, I would like to ask the authors to add more of the latest references about the subject.



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

**ESPS manuscript NO:** 16392

**Title:** Can antiretroviral therapy be tailored to each human immunodeficiency virus-infected individual? Role of pharmacogenomics

**Reviewer's code:** 00742222

**Reviewer's country:** Argentina

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2015-01-16 15:10

**Date reviewed:** 2015-02-25 00:06

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" 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"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		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

This is an interesting review in which the value of genetics in association to the pharmacokinetic parameters of the antiretroviral drugs is described. The message and revision is focused, clear, with adequate references which include the latest information on the subject.



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

**ESPS manuscript NO:** 16392

**Title:** Can antiretroviral therapy be tailored to each human immunodeficiency virus-infected individual? Role of pharmacogenomics

**Reviewer's code:** 00504918

**Reviewer's country:** United States

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2015-01-16 15:10

**Date reviewed:** 2015-04-21 21:39

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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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		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

### COMMENTS TO AUTHORS

This is a very clear well written review on SNP and drug tailoring. Table 1 will be very useful to clinicians and researchers alike. Few editorial issues: In title remove the word "the" before antiretroviral and throughout manuscript when used before antiretroviral, space between amino acid on page 3, in sentence "what means that some published associations may no.." change "what" to "which", on page 7 make sure HFE is capitalized throughout,



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

**ESPS manuscript NO:** 16392

**Title:** Can antiretroviral therapy be tailored to each human immunodeficiency virus-infected individual? Role of pharmacogenomics

**Reviewer's code:** 02445940

**Reviewer's country:** India

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2015-01-16 15:10

**Date reviewed:** 2015-04-24 14:22

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
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		[Y] No	

### COMMENTS TO AUTHORS

It is a well drafted critical review on HIV. I highly recommend the publication of the review in World Journal of Virology.



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**ESPS manuscript NO:** 16392

**Title:** Can antiretroviral therapy be tailored to each human immunodeficiency virus-infected individual? Role of pharmacogenomics

**Reviewer's code:** 03084412

**Reviewer's country:** China

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2015-01-16 15:10

**Date reviewed:** 2015-04-10 00:47

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
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<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
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