

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 47244

Title: Cellular Models for Human Cardiomyopathy: What is the Best Option?

Reviewer's code: 03414056

Reviewer's country: Spain

Science editor: Jin-Lei Wang

Reviewer accepted review: 2019-05-18 18:37

Reviewer performed review: 2019-05-21 21:26

Review time: 3 Days and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input checked="" type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is an excellent review paper about the cellular models for human cardiomyopathy and which could be the best option. This manuscript is nicely structured and well written. I miss a schematic figure about the topic of comparison of the type of cells instead of tables with the comparisons I have no question about this manuscript.



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INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 47244

Title: Cellular Models for Human Cardiomyopathy: What is the Best Option?

Reviewer's code: 02565578

Reviewer's country: Italy

Science editor: Jin-Lei Wang

Reviewer accepted review: 2019-05-16 09:02

Reviewer performed review: 2019-05-23 09:58

Review time: 7 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In the introduction, the Authors define the group of pathologies termed 'inborn errors of metabolism', including mitochondrial cardiomyopathies. The section Animal Models, although very short, correctly links to the current trend of reducing the use of animals for the study of human diseases. The next section on cellular models of cardiovascular



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disease discusses the techniques, applications and differences between immortalised cells, fibroblasts and induced pluripotent stem cells. The review is comprehensive, well-written and not only reports but also interprets, analyses and compares available data, supporting the conclusions about possible applications. The language is very clear and the text is easy to follow. My only concern is about Figure 3 that graphically summarizes the protocol differentiation of iPSCs into cardiomyocytes. First, the legend is unclear. 'Cardiomyocyte differentiation' could mean differentiation of cardiomyocytes into another cell type, while here it is differentiation of other cells into cardiomyocytes that the Authors are discussing. Second, it is not clear whether the Authors can report this protocol published somewhere else by different research group, without permission.

INITIAL REVIEW OF THE MANUSCRIPT

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- ☐ No

BPG Search:

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- ☐ Plagiarism
- ☐ No