



PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 42832

Title: Loss of Cavin1 and Expression of p-Caveolin-1 in Pulmonary Hypertension:
Possible Role in Neointima Formation

Reviewer’s code: 02565578

Reviewer’s country: Italy

Science editor: Ying Dou

Date sent for review: 2018-10-30

Date reviewed: 2018-10-31

Review time: 1 Day

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 checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The authors evaluate the effects of the pulmonary hypertension induced by chronic hypoxia (4 weeks), endothelial cell disruption by monoctrotaline and both on vascular wall remodelling and activation of proliferative and anti-apoptotic pathways in



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endothelial and smooth muscle cells. Previously published studies by the same group, in particular *Exp Biol Med* (Maywood) 2012;237(8):956-65, evaluated similar parameters and factors in the monocrotaline-induced pulmonary hypertension in rats. In the present work, the addition of the hypoxia and monocrotaline+hypoxia groups of rats reveals the mechanism of the hypoxia-induced pulmonary hypertension and underscores the role of endothelial damage in triggering the vascular wall remodelling. My only major concern is related to the similarity of the study protocol to the previously published studies, focusing on the caveolin and cavin expression in the endothelial and smooth muscle cells. The authors use monocrotaline (MCT) in rats to evoke the endothelial cell disruption in the animal model of pulmonary hypertension. Is there any correspondence to the pathogenesis of PH in human? Minor concerns regard the form of the manuscript. There are several references and discussion points in the Result section. In my opinion, they should be moved to Discussion. Also, the manuscript seems fragmented and there are several errors of punctuation; both may result from numerous revisions with deletions/additions of the content. The authors should check again these aspects of the manuscript before resubmitting.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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BPG Search:

- The same title



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Name of journal: World Journal of Cardiology

Manuscript NO: 42832

Title: Loss of Cavin1 and Expression of p-Caveolin-1 in Pulmonary Hypertension: Possible Role in Neointima Formation

Reviewer’s code: 03702209

Reviewer’s country: Greece

Science editor: Ying Dou

Date sent for review: 2018-10-30

Date reviewed: 2018-11-15

Review time: 16 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

This is a very well designed study using a rat model aiming to elucidate whether loss of cavin-1 and p-cav-1 occur in PH that might explain the mechanism of neointima formation. The authors analyzed the expression of cav-1, p-cav-1 and cav-1-related



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proteins cavin-1, cav-2, vascular endothelial cadherin (VECad), and pERK1/2 in rats treated with MCT, hypobaric hypoxia and a group treated with MCT and exposed to hypoxia. This study also included lung histology and haemodynamic data in rats. It is a difficult study. well performed with clear results and messages which to my opinion dererves to be published in the World Journal of Cardiology in the form it has been submitted

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Name of journal: World Journal of Cardiology

Manuscript NO: 42832

Title: Loss of Cavin1 and Expression of p-Caveolin-1 in Pulmonary Hypertension:
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Reviewer's code: 03639986

Reviewer's country: China

Science editor: Ying Dou

Date sent for review: 2018-10-30

Date reviewed: 2018-11-18

Review time: 19 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
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a interesting study. However, the work in this paper is needed to be improved. 1. The design is good and writting well. Maybe the language shoule improve. 2. The format of references should be corrected.



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