

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Cardiology

**ESPS manuscript NO:** 20399

**Title:** Intimal pericytes as the second line of immune defence in atherosclerosis

**Reviewer's code:** 02562761

**Reviewer's country:** France

**Science editor:** Xue-Mei Gong

**Date sent for review:** 2015-06-03 13:30

**Date reviewed:** 2015-06-05 18:02

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 checked="" type="checkbox"/> Grade C: Good	<input checked="" 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"/> Plagiarism	<input checked="" 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

In this manuscript Ivanova et al review the current literature concerning the immune-inflammatory processes in the pathogenesis of atherosclerosis, with a focus on the role of parasite-like cells as the second line of immune defense. The review is of interest and underscores the importance of immune/inflammatory responses in disease development. However, it has certain shortcomings that need to be addressed. 1. The first that should be mentioned, but was not used as an assessment criterion, is the language. The manuscript will benefit from editing by a native English speaker. Wording and verb corrections need special attention. Overall, it needs improvement in English. 2. The manuscript provides an extensive review of the current literature, which is good. However, it will certainly benefit from an integration of all these valuable findings in order to be less descriptive. For instance, a hypothesis of how the immune-inflammatory processes are involved in the development, can this be controlled or managed, how really all these immune/inflammatory cells and mediators interact...etc. would be helpful. 3. The title of the manuscript puts the focus on the role of parasite-like cells, however the manuscript as presented does not clearly describe or propose this role or propose. The reader at the end of the manuscript as presented can reach neither a conclusion nor a



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definition of such role. This need to be addressed. 4. The authors may include a schematic model that would help the understanding of how immune-inflammatory processes and pericyte-like cells may contribute to atherosclerosis.

## ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Cardiology

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**Title:** Intimal pericytes as the second line of immune defence in atherosclerosis

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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
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<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

Immune-inflammatory processes in the pathogenesis of atherosclerosis: Focus on the role of pericyte-like cells as the second line of immune defence in the arterial intima By Ivanova et al. In this manuscript, authors review the role of pericyte-like cells as the second line of immune defense in the arterial intima in atherosclerosis. In addition to presenting suggestions on the role of pericyte-like cells in the atherosclerosis and innate immunity, the author also reviewed atherosclerosis and cellular composition in macrovascular intima. The paper title and abstract are both appropriate. Although the authors provide an overview of atherosclerosis, the detailed discussion of the involvement of perivascular cells in atherosclerotic events was not been achieved. 1) Although the authors discussed what is known about perivascular cells so far, the paper needs a narrow explanation of the nature of perivascular cells. For example, instead of discussing maturity and pluripotency, it is more appropriate to draw the attention of the reader to a specific type of cell that contains specific markers (such as NGS1). 2) The nomenclature of the cells provided by the authors is not consistent. While they, most of the time, refer to the cells as pericytes, in other instants they are called pericytes-like satellite cells. 3) The review is lacking in terms of figures and tables that will help to present the overall idea



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the authors want to convey. 4) Appropriate referencing is important and is an indicator of scientific integrity and of extreme importance for review articles. Referencing information in this paper lacking, for example three paragraphs (page 4-5) are not referenced. This must be addressed throughout the manuscript. Finally, this paper presents an important topic on the cellular biology in atherosclerosis. The title is excellent. And the review covers all aspects in the pathological events of atherosclerosis. Overall, it can be considered to be a step toward understanding the involvement of cells from different niches in the pathology observed in atherosclerosis, which does not have cell specific therapeutic target yet. Although, we have some comments and suggestions, these will not decrease the impact of the paper.