

## PEER-REVIEW REPORT

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

**Manuscript NO:** 90731

**Title:** Hypoxia-inducible factor-1 $\alpha$  in myocardial infarction

**Provenance and peer review:** Invited Manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03371063

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Senior Scientist

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** Croatia

**Manuscript submission date:** 2023-12-13

**Reviewer chosen by:** Jia-Ru Fan

**Reviewer accepted review:** 2024-01-05 01:51

**Reviewer performed review:** 2024-01-05 02:55

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

<b>Scientific significance of the conclusion in this manuscript</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The editorial manuscript described the roles of HIF1 $\alpha$  in hypoxic condition, such as myocardial infarction and the relationship between HIF1 and circadian rhythm. The manuscript is overall interesting and well written. I have a few minor comments. Page 2, in the Abstract, PER2 needs full spell. Page 4, Line 6, by an oxygen-dependent process → the meaning is not clear. Page 5, Line 8, cell type-specifically expressed → the meaning is not clear. Page 5, bottom line, after the cardiac-specific expression of HIF1 $\alpha$  increases during myocardial infarction → The sentence is too complicated to understand. Page 7, middle, bHLH-PAS should be fully spelled.

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**Peer-review model:** Single blind

**Reviewer's code:** 06045810

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor, Research Assistant Professor

**Reviewer's Country/Territory:** Romania

**Author's Country/Territory:** Croatia

**Manuscript submission date:** 2023-12-13

**Reviewer chosen by:** Jia-Ru Fan

**Reviewer accepted review:** 2024-01-04 13:22

**Reviewer performed review:** 2024-01-09 07:06

**Review time:** 4 Days and 17 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

The proposed editorial is an extremely interesting one, which brings to attention an important pathophysiological mechanism of myocardial infarction, which represents a significant future research direction due to its therapeutic and prognostic implications. The manuscript is very well designed, highlighting the importance of the topic and the need to include it in an editorial article. The scientific content is adequate, properly systematized. I congratulate the authors for their scientific approach.