

## PEER-REVIEW REPORT

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

**Manuscript NO:** 53295

**Title:** Nicotine-induced adrenal beta-arrestin1 upregulation mediates tobacco-related hyperaldosteronism leading to cardiac dysfunction

**Reviewer's code:** 02446694

**Position:** Editorial Board

**Academic degree:** FACC, FAHA, MD, PhD

**Professional title:** Doctor

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-01-03

**Reviewer chosen by:** Ruo-Yu Ma

**Reviewer accepted review:** 2020-01-10 22:32

**Reviewer performed review:** 2020-01-15 22:07

**Review time:** 4 Days and 23 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input 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



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#### **SPECIFIC COMMENTS TO AUTHORS**

The authors investigated the tobacco-induced hyperaldosteronism mediated with adrenal beta arrestin 1 upregulation. This paper seems to be interesting, however, there are several problems to be solved. #1 In the clinical setting, the chronic smokers and/or patients with primary aldosteronism have usually normal cardiac function, while patients with heart failure sometimes show hyperaldosteronism, which is not defined as the cause or result of heart failure. As for me, I can not believe these results easier. Was the dose of nicotine with 1mg/kg/day for rats proper? The authors should comment on these results and their interpretation in detail. #2 The authors should show the numbers of cells and rats in the "Method" section, while these numbers were shown only in figures legends. #3 "Introduction" section seems to be too lengthy. The authors had better shorten them appropriately. #4 The authors should revise "Abstract" section in the structured format, such as Method, Result, etc.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 53295

**Title:** Nicotine-induced adrenal beta-arrestin1 upregulation mediates tobacco-related hyperaldosteronism leading to cardiac dysfunction

**Reviewer's code:** 03846820

**Position:** Editorial Board

**Academic degree:** FACC, MD

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

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-01-03

**Reviewer chosen by:** Le Zhang

**Reviewer accepted review:** 2020-02-14 13:50

**Reviewer performed review:** 2020-02-15 09:05

**Review time:** 19 Hours

<b>Scientific quality</b>	<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
<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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

Dear author, The article represents results of the bench study which is hypothesized that the tobacco compounds may chronically increase AngII-dependent aldosterone production in AZG cells, possibly via adrenal  $\beta$ arrestin1 upregulation. The article is written with the good English-speaking adduction of the arguments. The article is sufficiently novel and very interesting to warrant publication. All the key elements are presented and described clearly. The most discussable options in the article are: 1) Would you please kindly correct all your typos and grammar errors throughout the manuscript. 2) Please, reduce the length of your Introduction to one page with strong justification of the objective which must be provided at the end of the Introduction. 3) Please, clarify your Limitations and Future Perspective in the Discussion. 4) Your Methods are quite short. Please elaborate it with all the necessary and relevant details. For instance, the animals are not described at all. 5) Please justify your statistical power in Methods. 6) There must be a scheme of your hypothesis and/ or study.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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

**Manuscript NO:** 53295

**Title:** Nicotine-induced adrenal beta-arrestin1 upregulation mediates tobacco-related hyperaldosteronism leading to cardiac dysfunction

**Reviewer's code:** 03846820

**Position:** Editorial Board

**Academic degree:** FACC, MD

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

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

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-01-03

**Reviewer chosen by:** Yu-Qiao Wang

**Reviewer accepted review:** 2020-04-16 02:34

**Reviewer performed review:** 2020-04-16 09:28

**Review time:** 6 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS



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Dear authors, The raised criticism was mostly met and the revision should be recognized as satisfactory.