

Dear reviewer and editor,

Many thanks for your valuable comments and the time you spent in reviewing the manuscript.

Kindly find the reply to each point raised in the reviewer and science editor reports in the table below:

Reviewer's comments:	Author's responses
<p>1.This paper mainly gives a review on the pathogenesis of insulin resistance in obesity, insulin resistance mechanism, the role of resistin in insulin resistance, and the potential of salivary resistin as a biomarker of insulin resistance. I have the following comments: 1.The title does not cover the content of this review. I suggest the authors revise it.</p>	<p>Response: The content covers the evidence available on the association between salivary resistin and IR in obese individuals and the potential usefulness of salivary resistin as a biomarker for IR in obese individuals which I think the title reflects.</p> <p>A suggested alternative could be "Salivary resistin as a biomarker for insulin resistance in obese individuals".</p>
<p>2.Under the subtitle 'Pathogenesis of insulin resistance in obesity', the authors should include other causes of insulin resistance in addition to chronic inflammation. Chronic inflammation is not the only cause of insulin resistance in obesity. For example, the lipotoxicity can increase diacylglycerol and induce oxidative stress, and endoplasmic reticulum stress in muscle and liver, further causing local and systemic insulin resistance.</p>	<p>This part has been expanded and 9 additional references were cited.</p> <p>The added paragraphs and references are highlighted in yellow in the revised manuscript.</p>
<p>3.Under the subtitle 'Pathogenesis of insulin resistance in obesity', the second paragraph does not fit in the content as indicated by the subtitle.</p>	<p>It has been removed and placed under insulin resistance as it provides information on the biomarkers for IR.</p>

<p>4. Under the subtitle 'insulin resistance mechanism', the subtitle is not clear to readers. What did the authors want to convey? The mechanism underlying the occurrence of insulin resistance, or the mechanisms underlying the effects of insulin resistance. My understanding is the latter has been touched by the subtitle 'Pathogenesis of insulin resistance in obesity'. Please make this subtitle more clear.</p>	<p>The subtitle is modified to "insulin resistance".</p> <p>It aims to provide the reader a simple description on IR and how does it lead to hyperglycaemia.</p>
<p>5. Under the subtitle 'insulin resistance mechanism', the second paragraph talks about the mechanism by which insulin function, but not the mechanism by which insulin resistance exerts its effects. If the authors want to express the mechanism underlying the effects of insulin resistance, there is a lack of description on the link of insulin resistance to insulin before talking about the effects of insulin under this subtitle. There are some format problems.</p>	<p>The subtitle is modified to "insulin resistance".</p> <p>It aims to provide the reader a simple description on IR and how does it lead to hyperglycaemia. It does not aim to provide details on the effects of insulin resistance.</p>
<p>Science editor' comments</p>	
<p>1 Scientific quality: The manuscript describes a Review of the Salivary resistin and Insulin Resistance. The topic is within the scope of the WJD. (1) Classification: Grade C</p>	<p>Thank you</p>
<p>(2) Summary of the Peer-Review Report: The authors should expand the "Pathogenesis of insulin resistance in obesity" and "Pathogenesis of insulin resistance in obesity" sections. There are some format problems. The questions raised by the reviewers should be answered</p>	<p>All questions raised have been answered.</p>
<p>(3) Format: There is 1 table and 2 figures</p>	<p>Format remains</p>

<p>(4) References: A total of 81 references are cited, including 7 references published in the last 3 years</p>	<p>The number of cited references increased to 90 in the revised manuscript.</p>
<p>Issues raised: The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor.</p>	<p>The power point of the figures has been provided as requested.</p>