

**Review Form 1.7**

Journal Name:	<b>Asian Plant Research Journal</b>
Manuscript Number:	<b>Ms_APRJ_107531</b>
Title of the Manuscript:	<b>A Comprehensive Review of Salacia reticulata: Botanical, Ethnomedicinal, Phytochemical, and Pharmacological Insights</b>
Type of the Article	<b>Review Article</b>

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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<ol style="list-style-type: none"> <li>1. <b>Yes</b></li> <li>2. <b>Yes</b></li> <li>3. <b>Yes</b></li> <li>4. <b>Yes</b></li> <li>5. <b>Yes</b></li> <li>6. <b>Yes</b></li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>Correction of spelling:</p> <p><b>5.2 Anti-hyperlipidaemic and anti-obesity effects</b>            Research was carried out in Japan (2006) using <i>S. reticulata</i> aqueous extract and cyclodextrin to observe their effects on the increase of plasma triglyceride (TG) levels that were stimulated by oral treatment of a liquid diet rich with fats to Sprague-Dawley male rats. There was a significant decrease in the TG levels among the treated rats compared to the controlled group, 4 hours after the administration of the HF diet. The researchers also studied female C57BL/6 mice that were given a solid high-fat diet ranging from 0, 0.2, or 0.5% of treatment for 8 weeks. The elevation of visceral fat mass and body weight were observed as comparatively low among the mice who were given 0.5% of treatment than other groups. Finally, the study concluded that the reduction of carbohydrate and lipid uptake from the small intestine may be responsible for the inhibitory effects of the treatment on high-fat diet-induced obesity. Consequently, the extract of <i>S. reticulata</i> along with cyclodextrin may prevent the visceral fat storage and intolerance to glucose that develops this particular type of obesity (54).            A study was carried out to elucidate the mechanisms of <i>S. reticulata</i> obesity and safety both <i>in vivo</i> and <i>in vitro</i>. For 2 months, the investigators fed Tsumura Suzaki Obesity Diabetes (TSOD) mice (a spontaneous obese mice model with type 2 diabetes) and Tsumura Suzaki non-obese (TSNO) mice (the corresponding control group) a regular MF diet, either alone or combined with <i>S. reticulata</i> (0.3 or 1.0%). In comparison to the control group, TSOD mice developed multiple signs and symptoms of metabolic diseases and grew to be obese as a result of the accumulation of fat. On the other hand, the TSOD group exhibited effects including, suppression of fat accumulation and increase of body weight, reduction of abnormal glucose tolerance and lipid metabolism along with intrahepatic suppression of fat accumulation. The adipose hypertrophy in the <b>mesentery</b>, which was observed in TSOD mice was also prevented by <i>S. reticulata</i> (55).</p>	
<p><b>Optional/General</b> comments</p>	<p>None</p>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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