

## Review Form 1.6

Journal Name:	<b>Journal of Complementary and Alternative Medical Research</b>
Manuscript Number:	<b>Ms_JOCAMR_91906</b>
Title of the Manuscript:	<b>Methanol extract of Dryopteris dilatata alleviates streptozotocin-induced hyperglycaemia and liver injury in male Wistar rats.</b>
Type of the Article	<b>Original Research Article</b>

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

<https://www.journaljocamr.com/index.php/JOCAMR/editorial-policy>

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Compulsory</b> REVISION comments	<p>Comments</p> <ol style="list-style-type: none"> <li>1. Author should be included whether type 1 or type 2 diabetes mellitus in title of the manuscript</li> <li>2. In abstract: author mentioned STZ induced hyperglycemia in diabetic rats. This sentence should be corrected as STZ- type 1 or type 2 diabetes</li> <li>3. In abstract: the key term of in vivo should be italicized as <i>in vivo</i></li> <li>4. Author has used 14 day for anti diabetic effect perhaps This 14 day not induced to permanent diabetes mellitus due to previous studies focused only 45 and 30 days.</li> <li>5. Spell mistake-glucose uniporter it should be corrected as glucose transporter</li> <li>6. Experiment design: group 2: include STZ dose</li> <li>7. Author clearly mentioned type 1 Dm then author how to administered pioglibazone for type 1 dm Number of studies revealed that pioglitazone to treat type 2 dm (<a href="#">Fahmida Alam</a>, <a href="#">Md. Asiful Islam</a>, <a href="#">Mafauzy Mohamed</a>, <a href="#">Imran Ahmad</a>, <a href="#">Mohammad Amjad Kamal</a>, <a href="#">Richard Donnelly</a>, <a href="#">Iskandar Idris</a> &amp; <a href="#">Siew Hua Gan</a> Efficacy and Safety of Pioglitazone Monotherapy in Type 2 Diabetes Mellitus: A Systematic Review and Meta-Analysis of Randomised Controlled Trials <i>Scientific Reports</i> volume 9, Article number: 5389 (2019) Yang H, Suh DH, Kim DH, Jung ES, Liu KH, Lee CH, Park CY. Metabolomic and lipidomic analysis of the effect of pioglitazone on hepatic steatosis in a rat model of obese Type 2 diabetes. <i>Br J Pharmacol.</i> 2018 Sep;175(17):3610-3625 Author need to more concentration about Pioglitazon treatment and clarify that</li> <li>8. Result section Author had mentioned amount of oxidative stress, this could be changed as amount of oxidative stress markers</li> <li>9. Author had mentioned title as serum insulin estimation; title will be corrected as estimation of serum insulin Author had mentioned title as fasting blood glucose, which will be corrected as estimation of glucose.</li> <li>10. In figures 1, 2 and 3 not added groups in x axis, it should be corrected it</li> <li>11. Fig 3: Author mentioned FBS it should be corrected as FBG (mg/dl). Effect of drug on blood glucose in diabetic rats</li> <li>12. Fig 4: In graph y- axis mentioned as glucose tolerance test and author should it replace with blood glucose level ( mg/dl ) Author need to more focussing on all results and its title Example: serum insulin it should be changed as Effect of drug on serum insulin in diabetic rats.</li> <li>13. Fig.6 In y axis; aspartate transferase it should be changed as aspartate transaminase (U/L)</li> <li>14. Author should be changed all figures and its subtitle</li> <li>15. Result section: Author mentioned in sub title as liver antioxidant but MDA and nitrite are not under category of antioxidants Author need to more concentration about antioxidants</li> <li>16. Author why want used methanolic plant extract, why not go for aqueous extract Author need to clarify that</li> <li>17. Author mentioned there was pancreatic nitrite level increase in diabetic rats, In order to previous findings reported that beneficial effect of inorganic nitrate in type 2 diabetic model. (Zahra ahadoran, Asghar Ghasemi, Parvin Mirmiran, Fereidoun Azizi, and Farzad Hadaegh Beneficial effects of inorganic nitrate/nitrite in type 2 diabetes and its complications, <i>Nutr Metab (Lond)</i>. 2015; 12: 16. Asghar Ghasemi 1, Sajad Jeddi 2 Anti-obesity and anti-diabetic effects of nitrate and nitrite Nitric Oxide. 2017 Nov 1; 70:9-24.)</li> <li>18. In conclusion: invivo antioxidant it should italicized as <i>in-vivo</i> antioxidant</li> </ol>	
<b>Minor</b> REVISION comments		

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Optional/General comments		
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**PART 2:**

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	R.Saravanan
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