



**SDI Review Form 1.6**

Journal Name:	<a href="#">Asian Food Science Journal</a>
Manuscript Number:	Ms_AFSJ_46897
Title of the Manuscript:	A STUDY ON BIOCHEMICAL PROPERTIES AND EFFECTS OF DIFFERENT VEGETABLE OILS ON BLOOD INDICES IN WISTAR RATS.
Type of the Article	Original Research Article

**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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
<p><b>Compulsory</b> REVISION comments</p>	<p><b>Abstract</b></p> <ol style="list-style-type: none"> <li>Reformulates the following sentence "Also in vivo experiment we <b>divided</b> wistar male rats <b>were</b> 4 groups such as normal diet 12 gm/day/rat"</li> </ol> <p>In the same sentence, defines the number of wistar male rats used.</p> <ol style="list-style-type: none"> <li>The following sentence is to reformulate "In this study the vegetable oil <b>causes the effect</b> on average body weight gain, Food Efficiency Ratio (FER), and lipid profiles [Total cholesterol (Tch), HDL- Cholesterol LDL - Cholesterol, Triglyceride (TG)] and serum enzymes [SGOT (AST), SGPT (ALT)] of different groups <b>of rat also been estimated</b>. It's the result or methodology?"</li> <li>The abstract lacks a conclusion, inserts it.</li> </ol> <p><b>Introduction</b></p> <ol style="list-style-type: none"> <li>The introduction needs a clear general objective.</li> <li>References are not well used. Some are numbered and others not. E.g: Dr.T. Rajamohan and Nevin KG 2004 Kaunitz and Dayrit (1992)</li> </ol> <p><b>Methodology</b></p> <ol style="list-style-type: none"> <li>In the Collection of mustard and preparation of powder section, cancels the sentences "Collection of sample is the main factor to start the whole research process. If the collection becomes erroneous then the whole task will be useless"</li> <li>How the Mustard oil was obtained from its powder?</li> <li>The reference number 18 is not well used. (Hansberry et al., 1947) <b>[18] = (Hansberry-et al., 1947) [18]</b></li> <li>Places the chemical analyses section after experimental design</li> <li>In experimental design, brings out the design of the experimentation. How the work was conducted? What number of rats was used and how it was shared to different experimental groups? How oils were given to animals and the frequency. How long lasted the study? In the present manuscript, the experimental design is writing as a review.</li> <li>Writes the experimental animals and experimental design in one synthetic paragraph</li> <li>The statistical test used for data analysis is inappropriate. In the case of this work, the compares the effects of three oils (mustard oil, virgin coconut and sesame oil) with</li> </ol>	



control (normal diet 12 gm/day/rat). It's means four samples or four means. The appropriate statistical test is "one-way ANOVA followed by Duncan post hoc test" which is a parametric test used when the compare more than two means of quantitative characters.

T-test in used only when the compare means of two quantitative characters.

#### **Results**

13. The interpretation of results is very poor. For this type of study, the author must make the interpretation following the two steps:

- a) Compare the result of oils- treated rats to the control;
- b) Compare the results of oils-treated rats between them.

14. The author should not add addition comment in the results section. He translates only the presented results.

15. The author must note that when the values of evaluated characteristics are presented in the tables, it isn't necessary to include it in the text. Values are introduced in the text only when results are presented by figures.

16. The title of the figure is under and not above.

17. Cancels "±SD" in the tables.

#### **Discussion (apart from some problems in form, this part of work is interesting)**

18. Cancels tables and figures in bracket in the discussion.

19. Uses the name of oil instead of group A, B, C and D.

20. In each evaluated parameter, remember only the obtained result and does not introduce the tables or figures

21. When there are several reference numbers in bracket, puts a space after the coma before following number. E.g: **[21,22,23,24] = [21, 22, 23, 24]**.

#### **Conclusion**

22. Cancels the following sentence in the conclusion "Mustard oil contains erucic acid which is harmful for health. The people of Bangladesh as well as India consume this oil.

Epecially in rural area of our country use this oil." Concludes only your results.

23. Reformulation the following sentences, they are long and incomprehensible.

- a) "On the other hand in vivo experiment found that in mustard oil causes the weight loss as well as FER of the rats but when rat fed food with virgin coconut and sesame oil causes the lifting of weight of rat also increase FER."
- b) "Serum lipid profile such as total cholesterol, LDL, TG which is raised by the incorporation of mustard oil where Sesame and mustard oil decrease Tch, LDL,



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	<p>TG, and increase HDL level in serum which is good for cardiac health remove excess LDL cholesterol from blood which is an indicator of heart diseases.”</p> <p><b>References list</b></p> <p>1. There are some disorders in the reference list.</p> <p>a) Writes the name of journal in the same way. Some are in abbreviated form (3, 5, ...) and others not (27, 38, ...).</p> <p>b) - In some references, there is a dot “.” Between the name of journal and volume n° and others a coma “,” or nothing.</p> <p>c) - The volume n°, Issue n° and page n° are writing in different ways. E.g:</p> <p>12(2):1977, 215-21. 56, (11) : 2007, 569-77 <u>Volume 198 (S585).</u> 1975, 5–13. Volume 10, Issue 2 Ver. II , 2016, 49-53</p> <p>d) Sends the date before the volume n° E.g:</p> <p><del>54(8), 1977, 323-324</del> = 1977; 54(8): 323-324 <del>Volume 10, Issue 2 Ver. II , 2016, 49-53</del> = 2016; 10(2): 49-53 <del>56, (11) : 2007, 569-77</del> = 2007; 56(11): 569-77</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments	<p>I have reviewed the manuscript titled: "A STUDY ON BIOCHEMICAL PROPERTIES AND EFFECTS OF DIFFERENT VEGETABLE OILS ON BLOOD INDICES IN WISTAR RATS". The finding contains interesting information regarding oils consumption. Unfortunately, the author used inappropriate statistical test for data analysis and subsequently made a poor interpretation of the results. Before possible publication, the manuscript needs serious major revisions.</p>	

**PART 2:**

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



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**Reviewer Details:**

Name:	<i>Tchoffo Herve</i>
Department, University & Country	<i>University of Dschang, Cameroon</i>