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Journal Name:	Asian Journal of Biotechnology and Bioresource Technology
Manuscript Number:	Ms_AJB2T_46285
Title of the Manuscript:	EFFECT OF TRAMADOL TREATMENTS ON TESTICULAR INTEGRITY IN ALBINO 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:

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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)
Compulsory REVISION comments	<p>In the Abstract: In lines 11 & 12: Eighteen male rats were divided into three groups. The rats were then divided into three groups:</p> <p>The authors should use one sentence to convey their message.</p> <p>In lines 13 to 17: Rats in group A were the control group and were given just food and water and groups T₁ and T₂ were given tramadol treatments at 50 and 100 mg/kgBW respectively, daily for the period of 65 days. The treatments were administered via oral gavage daily for 65 days and at the end of the treatment the rats were sacrificed.</p> <p>The authors should use one sentence to capture the information they intend to convey, by so doing, they would had avoided repetition of 65 days, etc.</p> <p>In line 17 before the last sentence:</p> <p>The authors should insert/include the type of laboratory method used.</p> <p>In line 24: tramadol treatments has deleterious effects on weight epididymis,</p> <p>The authors should write the before weight and of before epididymis.</p> <p>In line 27: keywords:</p> <p>The authors should be specific as regards the word gonad. They should replace the word gonad with male gonad. The authors should also consider the use of either histopathology or toxicity. Histopathology itself encompasses toxicity.</p> <p>In the introduction: In lines 51 and 52: Hence, the study was aimed at examining the effect of tramadol treatments on weights testes and epididymies,</p> <p>The authors should write the before weight and of before epididymis.</p> <p>Under Experimental design and procedure:</p>	<p>Done and highlighted</p> <p>Done and highlighted</p> <p>Done and highlighted</p> <p>Weights of treated animals were compared with the control and not their initial weights. It has been included and highlighted</p> <p>Done and highlighted</p> <p>Weights of treated animals were compared with the control and not their initial weights. It has been included and highlighted</p>



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	<p>Based on observation the authors did not carry out LD₅₀</p> <p>Studies using tramadol, and their write up is devoid of literature as regards dosage of tramadol used by previous researchers. Hence, the authors should carry out literature search concerning dosage of tramadol with respect to LD₅₀. To justify their use of 50mg and 100 mg per kgBW respectively, for groups T1 and T2.</p> <p>The authors used the plural form of testes throughout the manuscript, but did not adopt it likewise on epididymis. In some places epididymis was used whereas in some other places epididymes was used. They should adopt and maintain either.</p> <p>Under Histology of Testes; Plate 1 A-C:</p> <p>The labeling of the histological slides are not legible.</p> <p>The authors should increase the font size to make it legible.</p> <p>Moreover, the tissue slides do not really look X400 magnification; in other to put this doubt to rest, the authors should place X100 magnification beside its X400 magnification.</p> <p>Under Discussion:</p> <p>Results obtained revealed that tramadol treatments had significant effect on the weight of epididymes, sperm count and testicular integrity which agrees with the findings of Marwa <i>et al.</i> [20], Ceccarelli <i>et al.</i> [21] and El-Ghawet [22].</p> <p>The authors should state the so called findings of Marwa <i>et al.</i> [20], Ceccarelli <i>et al.</i> [21] and El-Ghawet [22].</p> <p>Results obtained are also in line with previous report on the gonadotoxic effects of tramadol in male animal models [23].</p> <p>The authors should also state the previous report on the gonadotoxic effects of tramadol in male animal models [23].</p> <p>Studies have also shown that increased reactive oxygen species (ROS) levels and oxidative stress correlates positively with decreased sperm parameters [34-36].</p> <p>The authors should also write the outcome of these studies they referred to.</p> <p>Under reference:</p>	<p>LD₅₀ of tramadol has been added in the manuscript and highlighted</p> <p>Done and highlighted</p> <p>Done and highlighted</p> <p>It is actually X400. The plates have been magnified to make the histology clearer.</p> <p>Done and highlighted</p> <p>Done and highlighted.</p> <p>Note: inclusion of new citation has changed the number citation number both in text and in the list of references.</p> <p>Done and highlighted</p>
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	The authors should seek and obtain the method of referencing by and for Journal	Referencing is in line with the format of the journal as spelt out in the instructions to authors.
Minor REVISION comments		
Optional/General comments		

PART 2:

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

As per the guideline of editorial office we have followed VANCOUVER reference style for our paper.

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