

Review Form 1.6

Journal Name:	<a href="#">Annual Research &amp; Review in Biology</a>
Manuscript Number:	Ms_ARRB_77164
Title of the Manuscript:	Unripe plantain Musa paradisiaca extract ameliorates deranged biochemical parameters in rat model of hepatotoxicity and nephrotoxicity
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)
<b>Compulsory</b> REVISION comments	<p>After studying and evaluating the manuscript “<b>Unripe plantain <i>Musa paradisiaca</i> extract ameliorates deranged biochemical parameters in rat model of hepatotoxicity and nephrotoxicity</b>” the comments and objections in the article are stated below:</p> <ol style="list-style-type: none"><li>1. Explain the phytoconstituents presentt in the extract and include in "Abstract", "Results" and "Discussion".</li><li>2. Introduction part has been written very weak. Why exposure of rats to carbon tetrachloride toxicity caused significant elevation in the biomarkers? If it is due to oxidative stress then add a note on “Oxidative stress” to the introduction and Discussion section.</li><li>3. Please add much information about the therapeutical properties of medicinal plants to the “Introduction” in paragraph 1. For this reason, you should explain and refer the following references completely:<ol style="list-style-type: none"><li>i. Pathophysiology of STZ-induced pancreatic <math>\beta</math> cell injury and dysfunction: traditional role of Boswellia ovalifoliolata Bal. &amp; Henry on diabetes and dyslipidemia. Comparative Clinical Pathology. 2020 Mar 17:1-1.</li><li>ii. Diabetes affects hepatic and renal glycoproteins: effect of Boswellia ovalifoliolata on glycoproteins proportions in diabetes induced hepatic and renal injury. Journal of Diabetes &amp; Metabolic Disorders. 2020 Feb 25:1-0.</li><li>iii. In vivo antihyperglycemic, antihyperlipidemic, antioxidative stress and antioxidant potential activities of Syzygium paniculatum Gaertn. in Streptozotocin-induced diabetic rats. Heliyon. 2019 Mar 1;5(3):e01373.</li><li>iv. Ameliorative effects of Mentha aquatica on diabetic and nephroprotective potential activities in STZ-induced renal injury. Comparative Clinical Pathology. 2020 Feb 1;29(1):189-99.</li><li>v. Evaluation of antioxidant activities of aqueous extract of stem bark of Boswellia ovalifoliolata in streptozotocin induced diabetic rats. Journal of Pharmacy and Chemistry. 2013;7:19-24.</li><li>vi. Analysis of Diplocyclos palmatus plant biomaterials (proteins) using in silico approach and homology modeling. Materials Today: Proceedings. 2020 Oct 24.</li></ol></li><li>4. How much crude unripe plantains extract was prepared from 300 g of fresh unripe plantains pieces? Mention in preparation of extract section.</li><li>5. Mention the mechanism or active principle behind restoration of activities after treatment in the conclusion section of abstract and also add full description about the mechanism to the Discussion section.</li><li>6. Tables: Check Table 1 and Table 2. The dose of <math>\text{CCl}_4</math> + Unripe Plantain mentioned wrongly as (50 ml/kgbw) and <math>\text{CCl}_4</math> + Unripe Plantain mentioned wrongly as (100 ml/kgbw). Please do necessary corrections with mg instead of ml.</li><li>7. Discussion part has been prepared very weak. Discuss regarding beneficial effects of different plant extracts in different biochemical parameters and include as first paragraph, in this regard you should refer the following references.<ol style="list-style-type: none"><li>i. Antihyperlipidemic activity of the stem bark of Boswellia ovalifoliolata in high fat diet fed rats. International Journal Of Medical Plants, Photon. 2014;107:572-6.</li><li>ii. In -vitro and In-vivo Studies on the Antidiabetic Activity of Stem Bark of <i>Homalium zeylanicum</i> in STZ Induced Diabetic Rats. Asian Journal of Biochemical and Pharmaceutical Research. 2014, Vol. 4, Issue 3, p 76-90.</li><li>iii. . Evaluation of anti-hyperglycemic activity of Narengi crenulata leaf in STZ induced diabetic rats. Asian J Biomed Pharm. 2014;4(39):35-9.</li><li>iv. Effect of flavonoid rich fraction of Andrographis echiioides in streptozotocin-induced diabetic rats. Journal of Pharmacy and Chemistry. 2016;1(10):16-20.</li><li>v. Evaluation of pharmacological activities of <i>Diplocyclos Palmatus</i>-A Novel approach. The International journal of analytical and experimental modal analysis. 2019, XI (XI):</li></ol></li></ol>	<p>Agreed with reviewer's comments. Corrections in the manuscript have been made accordingly. Thank you</p>

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	<p>80-108.</p> <p>vi. Pathophysiology of high fat diet induced obesity: impact of probiotic banana juice on obesity associated complications and hepatosteatosi s. Scientific Reports. 2020 Oct 9;10(1):1-7.</p> <p>vii. Ethno-pharmacological insulin signaling induction of aqueous extract of Syzygium paniculatum fruits in a high-fat diet induced hepatic insulin resistance. Journal of Ethnopharmacology. 2020 Nov 7:113576.</p> <p>Certainly, the main problem of your manuscript was the lack of important contents in Introduction and Discussion, so, you should try to use the above references completely for increasing the scientific levels of it. At the end, please check again the all parts of manuscript grammatically.</p> <p>Study and smile.</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

**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>	