

**Review Form 1.7**

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| Journal Name:            | <b>European Journal of Nutrition &amp; Food Safety</b>                                       |
| Manuscript Number:       | <b>Ms_EJNFS_111129</b>   |
| Title of the Manuscript: | <b>Ameliorative Activities of Morus and Jamun against Cr induced Andro-hepatic Anomalies</b> |
| Type of the Article      | <b>Original Research 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) |
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| <p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</li> <li><b>Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</li> <li><b>Is the abstract of the article comprehensive?</b></li> <li><b>Are subsections and structure of the manuscript appropriate?</b></li> <li><b>Do you think the manuscript is scientifically correct?</b></li> <li><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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p> | <ol style="list-style-type: none"> <li>The study on the ameliorative effects of Morus and Jamun showcased in this research introduces novel insights to the scientific community, particularly in the realms of public health and environmental sciences. By revealing the potential benefits of Morus and Jamun in mitigating the adverse effects under chromium-induced conditions, the research contributes valuable knowledge. This newfound understanding has implications for public health practices and environmental management, offering a fresh perspective on natural interventions that could positively affect both human health and the broader ecological context. Furthermore, the research offers valuable insights into the potential therapeutic properties of natural products, specifically Morus and Jamun. This newfound understanding holds significance for researchers in the field of natural products and herbal medicine. The study provides valuable information that could contribute to the exploration and development of these natural substances for therapeutic applications in the realm of herbal medicine and related disciplines.</li> <li>prefer to replace "andro-hepatic anomalies" with "spermatogenesis and hepatic anomalies" in the title, the revised title could be:<br/>"Ameliorative Activities of Morus and Jamun against Cr-induced Spermatogenesis and Hepatic Anomalies".<br/>I think this title reflects the accent, much better, the specific focus on spermatogenesis and hepatic anomalies in the context of chromium-induced conditions.</li> <li>The summary should be reworded:<br/>The aim of the study is not clearly defined (This study was conducted about the novelty of Cr+6 histopathological potentials along with Mulberry Fruit Extract and Jambul Fruit Extract to define the bio-chelation and ameliorative aptitude).<br/>The methods lack sufficient detail, and there is an absence of analysis demonstrating the plant's effect on chromium. Therefore, attributing biochelation in the abstract is premature and remains a suggestion. However, the results are well detailed and informative.<br/>The conclusion drawn from these results is not clearly presented.</li> <li>Manuscript is generally well-structured and provides a wealth of information.</li> <li>Yes. Scientifically the manuscript is correct providing both general context for the study and specific detailed information and specific details information.</li> <li>Ensure all references are relevant and up-to-date. It's essential to cite the most recent and pertinent research in the field to demonstrate a sound understanding of the current state of knowledge.</li> </ol> |   |
| <p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>   | <p>yes, with the exception of a few spelling mistakes</p>  |   |

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| <p><b>Optional/General</b> comments</p> | <p>The methodology is clear and detailed, providing good information. Also, all experiments were designed with appropriate controls . However, I have a few comments that could improve the document:</p> <ol style="list-style-type: none"> <li>1. In the introduction:<br/>On the one hand, it is important to note that there is a different form of chromium, trivalent chromium (chromium (III)), which is an essential nutrient and is generally regarded as safe for human consumption in trace amounts. Trivalent chromium is involved in glucose metabolism and works with insulin to help regulate blood sugar levels. In summary, hexavalent chromium is not considered beneficial for health, and exposure to high levels of this form of chromium should be minimized to prevent potential health risks. It is essential to adhere to safety guidelines and regulations to protect against exposure in occupational and environmental settings.<br/>On the other hand, it is advisable to include extra references that specifically pertain to the bio-chelation of chromium by plants, with a particular emphasis on Morus and Jamun (See table 1). Expand on the health benefits of Morus and Jamun through in vitro and in vivo studies, incorporating more references to strengthen this aspect. Minimize attention on other plants to maintain a clear emphasis on Morus and Jamun. Show the originality of the study by explicitly stating the primary objective and introducing secondary objectives.</li> <li>2. The conclusion requires revision to provide a succinct reference to the obtained results, contributing to a more insightful conclusion for this study. Thus, it is crucial to highlight the significance of the findings from this work.</li> </ol> |  |
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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) |
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| <p><b>Are there ethical issues in this manuscript?</b></p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> |   |

**Reviewer Details:**

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|---|---|
| <p>Name:</p>                                | <p><b>Bahafid Wifak</b></p>                                 |
| <p>Department, University &amp; Country</p> | <p><b>Sidi Mohamed Ben Abdellah University, Morocco</b></p> |