

Review Form 1.7

Journal Name:	European Journal of Nutrition & Food Safety
Manuscript Number:	Ms_EJNFS_117544
Title of the Manuscript:	Effect of Germination and Fermentation on the Nutrient Contents, Functional and Antioxidant Activities of Pigeon pea (Cajanus cajan) flour
Type of the Article	

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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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<ol style="list-style-type: none"> 1. The manuscript is important for the scientific community as it provides valuable insights into the impact of germination and fermentation on the nutritional and functional properties of pigeon pea flour, which could have significant implications for food science and nutrition, particularly in low-income regions. 2. The title is suitable as it accurately reflects the content and focus of the study. 3. The abstract is comprehensive but can be further refined for clarity and conciseness. It currently includes detailed statistical data that could be better presented in the main text. 4. The subsections and structure of the manuscript are appropriate. However, the methodology section could benefit from more detailed descriptions of the experimental procedures. 5. The manuscript appears to be scientifically correct, but more detailed descriptions of the experimental conditions and statistical analyses are needed to ensure reproducibility and validity. 6. The references are mostly sufficient but include many outdated sources. It is recommended to update the reference list with more recent studies from the past five years. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>The language quality is generally suitable, but there are several grammatical errors and redundancies that need to be corrected for improved readability.</p>	
<p>Optional/General comments</p>	<p>The manuscript is well-structured and addresses a relevant topic in food science. The results are promising and could have practical applications in improving the nutritional quality of pigeon pea flour.</p> <p>The manuscript titled "Effect of Germination and Fermentation on the Nutrient Contents, Functional, and Antioxidant Activities of Pigeon Pea (<i>Cajanus cajan</i>) Flour" presents an interesting study on the impact of germination and fermentation on pigeon pea flour. The study is well-structured, and the findings are valuable for understanding the nutritional enhancement and functional properties of processed pigeon pea flour. However, several areas require improvement.</p> <ol style="list-style-type: none"> 1 The manuscript lacks detailed information on the specific conditions used during the germination and fermentation processes. Please include the exact times and temperatures for germination and fermentation to enhance the reproducibility of the experiments. 2 The methodology for the DPPH free radical scavenging assay lacks sufficient detail. Include a comprehensive description of the sample preparation, reaction time, and detection wavelength used in the antioxidant assays. 4 The discussion on the impact of germination and fermentation on nutrient composition is superficial. Expand on the discussion by explaining the biological mechanisms behind the observed changes in protein content and other nutrients during fermentation and germination. 5 Many references cited are outdated. Update the reference list to include recent studies from the past five years to reflect current research and trends in the field. 	

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	<p>6 The manuscript contains several grammatical errors and redundancies. Conduct a thorough proofreading to correct grammatical errors and eliminate redundant expressions, ensuring the text is concise and clear.</p> <p>7 The practical applications of the research findings are not sufficiently highlighted in the conclusion. Clearly state the potential applications of pigeon pea flour in the food industry and discuss its nutritional and functional benefits in more detail.</p>	
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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>	

Reviewer Details:

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