

Review Form 3

Journal Name:	Asian Food Science Journal
Manuscript Number:	Ms_AFSJ_128799
Title of the Manuscript:	Effects of Wheat Substitution with Local Rice and Water Yam Flours on the Cooking and Sensory Quality of Instant Noodles
Type of the Article	Methodology/Original research article

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	It is a good research. The author has painstakingly worked on three different flour blends to make instant noodle.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes sir but is suggested: Quality evaluation of instant noodles Substituted with Local Rice and Water Yam flour blends	

Review Form 3

<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>I suggest deletion of some points like been direct without sub topic appearing:</p> <p>The study was done to evaluate the cooking and sensory quality of instant noodles produced from blends of local rice, water yam and wheat composite flours on wheat composite flours. Mixture D-Optimal Design for three variables was used. Place and Duration of Study: The study took place at the Department of Food Technology, Abia State Polytechnic, Aba between January 2021 and December 2023.</p> <p>The statistical software package was used to generate the experimental design matrix, analyze the experimental data and develop the regression model, and the total number of experiments N was= 10. The minimum and maximum values for component proportions for the flour blends are given as: $20 \leq X_1 \leq 100$, $0 \leq X_2 \leq 50$, $0 \leq X_3 \leq 30$. X_1 = content of hard wheat flour (%), X_2 = content of rice flour (%), and X_3 = water yam flour (%).</p> <p>The cooking time of the instant noodles (5.25 - 7.05 min), cooked weight (3.08 - 3.99 g), and cooking loss (0.11 - 0.6 g/g) varied significantly ($p < .05$). The major factor that affected the cooking quality was the increase in the rice flour component of the mixture components. The protein content (3.07 - 7.42 %) decreased significantly with an increase in the water yam component of the blends. The mixture response surfaces of the sensory analysis depicted a progressive decrease in preference for appearance, flavor, mouthfeel, taste, and overall acceptability with increase in the rice and water yam components of the mixture. However, noodles made from 100:0:0 (wheat flour) was not statistically ($p > .05$) different from noodles made from 75:25 (wheat: rice) composite flour in all the sensory attributes except for the taste preference. The coefficients of the components implied that the local rice flour was a better substitute for wheat than water yam. Noodles made from 75:25 (wheat: rice) composite flour can be used to produce instant noodles that can compete with noodles in the market made from 100% wheat flour.</p> <p>Noodles made from 75:25 (wheat: rice) composite flour can be used to produce instant noodles that can compete with noodles in the market made from 100% wheat flour.</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>Yes</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Yes</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	
<p>Optional/General comments</p>	<p>The work is novel but needed minor corrections.</p>	

PART 2:

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

Reviewer Details:

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