Journal Name:	Asian Journal of Research in Biosciences
Manuscript Number:	Ms_AJORIB_1780
Title of the Manuscript:	Selection on Litter Size at Birth and Correlated Responses in Pre-weaning Litter Traits of Heterogeneous Rabbits in Southern Nigeria.
Type of the Article	

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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.	This manuscript is significant for the scientific community as it provides valuable insights into the genetic improvement strategies for rabbit breeding, specifically focusing on litter size at birth and pre-weaning traits. By investigating the effects of mass selection in a real-world setting, this study contributes to our understanding of how selective breeding can impact productivity and animal welfare in heterogeneous rabbit populations. Moreover, the findings highlight the potential limitations of mass selection and suggest alternative strategies like crossbreeding, which can help refine and optimize breeding programs. This research not only advances knowledge in animal genetics but also offers practical implications for improving agricultural practices and addressing protein deficiency in regions like Southern Nigeria.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, "Selection on Litter Size at Birth and Correlated Responses in Pre-weaning Litter Traits of Heterogeneous Rabbits in Southern Nigeria," is quite detailed and informative. It captures the main focus of the study and its geographical context well. However, it could be slightly streamlined for clarity and impact. Here are a couple of alternative title suggestions: "Improving Litter Size and Pre-weaning Traits in Heterogeneous Rabbits through Mass Selection in Southern Nigeria" "Evaluating Mass Selection Effects on Litter and Pre-weaning Traits in Southern Nigerian Rabbits" These alternatives maintain the key elements of the study while aiming for a more concise and engaging presentation.	

Created by: EA Checked by: ME Approved by: CEO Version: 3(07-07-2024)

Revised Abstract: Asselection to improve litter size at birth in rabbits aims to bridge the protein deficiency gap and increase income for rabbit farmers. This study contains this section? Please write your suggestions here. Revised Abstract: Mass selection to improve litter size at birth and its correlated responses in pre-weaning litter traits in mongrel rabbits. One hundred and five female rabbits from a total of one hundred and five female rabbits from a total of one hundred and ninety-six (91 males and 105 females) progeny generated from a mating scheme involving eighteen bucks and forty-eight dams constituted the experimental animals. The selection criterion was litter size at birth (LSS). Animals were housed in three-tier hutches and fed a concentrate diet containing 15.81% protein, 2480 kcal energy, and 8.22% liber in the morning, and green forages in the evening. Mass selection was performed on the criterion across three generations (FS, F1, and F2). A nested design was employed where dams were nested within sires. Pre-weaning litter traits studied included litter birth weight (LBW), kits birth weight (KBW), and number of kits born alive (NBA). Statistical analysis revealed that LSB did not significantly evolve with selection (p>0.05), although numerical improvements were observed. Sire and dam effects were also non-significant. LSB values were 4.46±0.14, 4.48±0.15, 4.50±0.11, and 4.51±0.18 kits in FS, F1, F2, and F3 respectively. Realized selection responses per generation were 0.02, 0.02, and 0.01 in FS, F1, and F2 respectively. The correlated changes in pre-weaning traits were non-significant (p>0.05) but showed numerical improvements in LBW and NBA, with a reduction in KBW across the generations. This study concludes that mass selection on litter size at birth in rabbits, which is critical for protein supply and farmer income. The results are relevant and important objective—improving litter size at birth in rabbits, which is critical for protein supply and farmer income. The rationale is clearly	
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To ensure the manuscript's scientific rigor, it would be valuable to:	
 Include a more detailed description of the statistical analysis methods. 	
 Discuss potential limitations of the study and suggest areas for further research. 	
Overall, the study contributes valuable insights into rabbit breeding practices and offers practical recommendations for improving genetic traits, which can be	
beneficial for both the scientific community and local agriculture.	
Are the references sufficient and recent? The references you've included are relevant and provide a good foundation for your study. However, it would be beneficial to include more recent studies to	
If you have suggestions of additional ensure the most up-to-date information is being considered. Here are a few additional references that might be useful:	
references, please mention them in the	
review form. 1. **Xie, K., Ning, C., Yang, A., Zhang, Q., Wang, D., & Fan, X. (2024).** Resequencing Analyses Revealed Genetic Diversity and Selection Signatures	
during Rabbit Breeding and Improvement. *Genes, 15*(4), 433. https://doi.org/10.3390/genes15040433	
2. **Helal, M., Sameh, J., Gharib, S., Merghany, R. M., Bozhilova-Sakova, M., & Ragab, M. (2024).** Candidate genes associated with reproductive traits in	
rabbits. *Tropical Animal Health and Production, 56*(94). https://doi.org/10.1007/s11250-024-03938-8	
3. **Ballan, M., Bovo, S., Schiavo, G., Schiavitto, M., Negrini, R., & Fontanesi, L. (2022).** Genomic diversity and signatures of selection in meat and fancy	
rabbit breeds based on high-density marker data. *Genetics Selection Evolution, 54*(3). https://doi.org/10.1186/s12711-022-00696-9	
These references cover recent advancements in genetic diversity, selection signatures, and candidate genes associated with reproductive traits in rabbits,	
which could provide additional context and support for your study.	
Is the language/English quality of the NO. it has a lot of grammar and native misconceptions.	
article suitable for scholarly	
communications?	
Optional/General comments	
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FART Z.		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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

Reviewer Details:

Name:	Sayyed-Javad Ziaolhagh
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