

Review of: "Heritability and Genetic Correlations of Growth Traits Among Inbred Population of Nigerian Chickens"

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Potential competing interests: No potential competing interests to declare.

Reviews on "Heritability and Genetic Correlations of Growth Traits Among Inbred Population of Nigerian Chickens".

This research has been evaluated by many reviewers. In particular, the comments of a few are invaluable.

I present below some of my thoughts that I think will enrich the article.

1. The introduction should be shortened with more appropriate references.
2. The investigated traits and abbreviations should be clearly defined.
3. In the Material and Method section, the structure of the data should be explained. Sire, dam, total number of animals, number of full-sib or half-sib animals or family.
4. The model used should be written more clearly. Fixed and random factors should be clearly stated and the sex of the chickens should be added to the model as fixed. Linear or matrix representation of the model should be made.
5. The multitrait model should have been used for genetic correlations, but no explanation was given.
6. Since additive genetic variance is estimated with $4\sigma^2_s$, it can be said that sire model and half-sib family are used. But in the text Animal model is written.
7. If the estimations are made with ANOVA, this should be changed and iterative methods such as ML, REML etc. should be preferred.
8. In the conclusion section, the heritability of Week 2 should be $h^2=0.09$, while 0.76 is written. Check please.
9. The standard errors of heritability were found to be very high, probably due to insufficient data. The selection to be made with these estimates will not be reliable.
10. The discussion is insufficient and should be compared with current literature results.

As a result, I think a major revision should be made.

Kind regards

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