

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Biology</a>
Manuscript Number:	Ms_AJOB_129204
Title of the Manuscript:	The influence of hemoglobin C on Plasmodium falciparum parasite density
Type of the Article	Original Research Article

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

### Review Form 3

#### 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)
<b>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.</b>	This manuscript provides unique and region-specific insights into the interplay between malaria and hemoglobin variants in Niger, a critical yet understudied area in sub-Saharan Africa. The findings underline the complex biological interactions between hemoglobin types and Plasmodium falciparum, revealing potential implications for tailored public health interventions in malaria-endemic regions. Additionally, the study bridges gaps in existing research by providing robust, data-driven evidence, which could inform both clinical management strategies and future research into the molecular mechanisms driving these interactions.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title accurately reflects the central focus of the research. However, it could be made more comprehensive to emphasize the broader scope of the study, which includes other hemoglobin types and their relationship with malaria severity. <b>Suggested Alternative Title: "The Influence of Hemoglobin Variants on Plasmodium falciparum Parasite Density"</b>	
<b>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.</b>	The abstract of the article is generally comprehensive, summarizing the study's objectives, methods, findings, and implications effectively.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript appears to be scientifically sound and adheres to standard research methodologies. However, the following considerations could improve the manuscript's scientific robustness: <b>•Species-Specific Analysis</b> The study does not differentiate between <i>Plasmodium</i> species, which limits the specificity of the findings. Since the behavior of <i>P. falciparum</i> can vary with hemoglobin types, identifying the species involved would strengthen the conclusions. <b>•Formatting and Style Comment</b> Please ensure that all scientific names of microorganisms, including genus and species names, are italicized throughout the manuscript. This is a standard convention in biological and scientific writing. For example, <i>Plasmodium falciparum</i> should be italicized wherever it appears. Correcting this will align the manuscript with proper scientific formatting guidelines.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Yes. Many references are recent, published between 2010 and 2024, which aligns with current research trends.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The manuscript's language is generally clear and comprehensible, but it does require refinement to fully meet the standards of scholarly communication. They include: <b>•Some minor grammatical and typographical errors should be addressed.</b> <b>•Clarity and Conciseness:</b> Some sentences could be rewritten for brevity. For example Original: "This study involved 875 participants with a sex ratio of 1.06; their mean age was 14.25 years [02 months - 80 years]." Suggested Revision: "The study included 875 participants with a sex ratio of 1.06 and a mean age of 14.25 years (range: 2 months to 80 years)."	
<b>Optional/General</b> comments		

#### 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)
<b>Are there ethical issues in this manuscript?</b>	<b><u>(If yes, Kindly please write down the ethical issues here in details)</u></b>	

#### Reviewer Details:

<b>Name:</b>	<b>Ifeoluwa Joy Falade</b>
<b>Department, University &amp; Country</b>	<b>University of Lagos, Nigeria</b>