

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Biochemistry, Genetics and Molecular Biology</a>
Manuscript Number:	Ms_AJBGMB_128391
Title of the Manuscript:	The influence of some variants of SLC22A1 and CYP2C9 genes on glycaemic response in T2DM subjects on metformin/Sulphonylureas combination therapy in Port Harcourt
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:

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

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**Review Form 3**

**PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<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 study explores how specific genetic variants in the SLC22A1 and CYP2C9 genes affect glycemic response in type 2 diabetes mellitus (T2DM) patients treated with metformin and sulfonylureas in Port Harcourt, Nigeria.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	Title could be improved slightly for conciseness and broader appeal. A revised title like "Impact of SLC22A1 and CYP2C9 Gene Variants on Glycemic Response to Metformin/Sulfonylurea Therapy in T2DM Patients in Port Harcourt" might make it more streamlined while retaining all essential details. This revision avoids unnecessary words (e.g., "some variants of" and "subjects on") and emphasizes the core aspects of the study.	
<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 not comprehensive and could benefit from several additions to provide a more complete overview of the study.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript presents a scientifically correct approach to investigating the influence of genetic variants on T2DM treatment response. However, there are a few areas that could be improved to enhance its scientific rigor and clarity: <ol style="list-style-type: none"> <li>1. The sample size calculation is provided but the actual number of participants (90) exceeds the calculated minimum (56). The rationale for this increase should be explained.</li> <li>2. The manuscript does not mention the statistical methods used to analyze the data. This is a critical omission that should be addressed.</li> <li>3. More details on the specific gene variants studied and the sequencing methods used would strengthen the scientific validity.</li> <li>4. It's unclear if there is a control group in this study. Including a control group would enhance the study's ability to draw causal conclusions.</li> <li>5.</li> </ol>	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	<ol style="list-style-type: none"> <li>1. The references for T2DM prevalence and epidemiology (citations 1-4) are not explicitly dated in the given text, but they appear to be relatively recent. It would be beneficial to ensure these statistics are from the last 5 years to reflect the most current data.</li> <li>2. The genetic and pharmacogenomic references (citations 6-13) seem to cover key aspects of the study's focus. However, some additional recent reviews or meta-analyses on SLC22A1 and CYP2C9 variants in T2DM treatment could enhance the background.</li> <li>3.</li> </ol>	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language and English quality of the article are generally suitable for scholarly communication.	
<b>Optional/General</b> comments		

**PART 2:**

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

**Reviewer Details:**

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