

Review Form2

Book Name:	Research Perspectives of Microbiology and Biotechnology
Manuscript Number:	Ms_BPR_2518
Title of the Manuscript:	Assessing the polymorphism of DHFR gene from Plasmodium falciparum in the south of Côte d’Ivoire
Type of the Article	Book chapter

PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	The study addresses a critical issue in malaria management, focusing on the molecular markers of resistance to sulfadoxine-pyrimethamine (SP) in Plasmodium falciparum, particularly in a high-risk area like Côte d'Ivoire. study utilizes nested-PCR and sequencing techniques, which are well-established methods for detecting genetic polymorphisms The chapter presents data clearly, with tables summarizing key findings such as the prevalence of different mutations and the distribution of genotypes. This aids in understanding the extent of SP resistance in the study areas.	
Is the title of the article suitable? (If not please suggest an alternative title)	generally appropriate as it clearly indicates the study's focus on the genetic variation of the DHFR gene in Plasmodium falciparum within a specific geographical region However, to enhance clarity and appeal, you might consider slightly modifying the title to make it more specific about the purpose and scope of the study- "Prevalence and Genetic Diversity of DHFR Gene Polymorphisms in Plasmodium falciparum from Southern Côte d'Ivoire: Implications for Antimalarial Drug Resistance"	
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.	Fairly comprehensive but could benefit from some adjustments for better clarity and completeness. Here are some suggestions The abstract should briefly introduce the significance of the DHFR gene and its role in malaria treatment, particularly its relation to antimalarial drug resistance. Example Addition: "Malaria remains a major public health issue, particularly in sub-Saharan Africa. The dihydrofolate reductase (DHFR) gene in Plasmodium falciparum plays a critical role in the parasite's resistance to sulfadoxine-pyrimethamine (SP), a widely used antimalarial drug."	
Are subsections and structure of the manuscript appropriate?	The structure and subsections of the manuscript appear to be well-organized and appropriate for a research paper of this nature.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.	The study employs well-established molecular techniques such as nested-PCR and Sanger sequencing, which are recognized for their accuracy in detecting genetic mutations. The large sample size and the selection of multiple study sites enhance the reliability and generalizability of the findings. Additionally, the manuscript provides a detailed analysis of the prevalence of key mutations associated with drug resistance, offering significant insights into the implications for malaria treatment strategies in the region. These elements collectively ensure that the research is methodologically sound and contributes valuable data to the field of malaria research.	

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Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	while the references are generally sufficient, incorporating a few more recent and relevant sources would enhance the manuscript's relevance and ensure it aligns with the latest developments in the field.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	While the content is scientifically accurate, some sentences are complex or awkwardly phrased, and there are occasional grammatical issues. Some sentences are long and complex, which can hinder readability. Breaking them into shorter, more concise sentences would improve clarity. Example Revision: "This study aimed to determine the prevalence of the Asn-108 marker in Southern Côte d'Ivoire." instead of "Therefore this study aimed to determine the prevalence of the Asn-108 marker in three sites in Southern Côte d'Ivoire." There are occasional minor grammatical errors that can be corrected. Example: "After sequencing the prevalence of mutation points..." can be improved to "After sequencing, the prevalence of mutation points..."	
Optional/General comments	The study addresses an important issue in malaria research, particularly in understanding drug resistance in Plasmodium falciparum, which has significant implications for public health in malaria-endemic regions like Côte d'Ivoire. The use of tables to present data is effective, but including figures or graphical representations of key findings could enhance the visual appeal and make the data more accessible to readers. Title and Abstract: The title is clear and reflects the study's focus, though it could be slightly revised for clarity and specificity. The abstract is comprehensive but could benefit from minor adjustments to enhance readability and emphasize key findings. Language and Grammar: The manuscript is written in clear, but there are areas where sentence structure and grammar could be refined. References: The references are adequate but could be updated with more recent studies to reflect the latest developments in the field. Structure and Organization: The manuscript follows a logical and well-organized structure typical of scientific research papers. Ethical Considerations: The manuscript appropriately addresses ethical considerations, including obtaining informed consent and ethical clearance. Figures and Tables: The use of tables is effective, but consider adding more graphical representations to enhance the presentation of data and make the results more accessible.	

PART 2:

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

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