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| Journal Name: | [**Asian Journal of Biochemistry, Genetics and Molecular Biology**](https://journalajbgmb.com/index.php/AJBGMB) |
| Manuscript Number: | **Ms\_AJBGMB\_134388** |
| Title of the Manuscript: | **Glucose-induced Production of Secondary Metabolites by Lasiodiplodia theobromae** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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.** | Bioactive secondary metabolites remains largely unexplored for use as new antimicrobial agents, novel secondary metabolite in *L. theobromae* was induced by the impact of two different cultivation-based approaches the use of this active metabolites will be more useful in the field of science. | The importance of the data presented in the manuscript to scientific community is that the reliability of endophytic fungus particularly *Lasiodiplodia theobromae* for new compounds is inexhaustible. Also, this data validates the inducibility of an endophytic fungus metabolic pathway for the production of interesting lead molecules through media engineering. Finally, a change in the fungus environmental or physiological conditions induces genetic activation leading to the biosynthesis of novel compounds. Hence, endophytic fungi are dependable source of novel compounds for drug development. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **YES** |  |
| 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. | **YES** |  |
| Is the manuscript scientifically, correct? Please write here. | **YES** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **YES** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **YES** |  |
| Optional/General comments | I must commend his citations; They are all up to date, You need to write which class of antibiotics used during determination of Multidrug-*Pseudomonas aeruginosa.* There is no single space in the manuscript that states the standardization of inoculum used. There is no confidence level in your Statistical analysis. Your conclusion is too scanty. | The test organisms used are Bacteria: Oxacillin and Vancomycin resistant-*Staphylococcus aureus* and Multidrug-*Pseudomonas aeruginosa* (resistant to at leats one antibiotic from Beta lactams, quinolone, aminoglycoside, and tertracycline. The manuscript has been updated about how each of the bacterial and fungal suspension was adjusted to 0.5 McFarland turbidity standard using sterile water as the diluents. A confidence level of 95% was used. The conclusion has been revised. |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* | No ethical issues whatsoever |