Review Form 3

Journal Name:	**Journal of Advances in Biology & Biotechnology**
Manuscript Number:	**Ms_JABB_126206**
Title of the Manuscript:	**Synergistic Impact of Biofertilizers in Enhancing Yield and Quality of Button Mushroom**
Type of the Article	**Review Article**

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PART 1: Review Comments

Compulsory REVISION 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)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	Biofertilizers present a sustainable and eco-friendly method to boost button mushroom yield and quality. These microbial inoculants enhance nutrient availability, support mycelial growth, and improve fruiting body formation.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	**Suggest little modification,** Synergistic Impact of compost amended Biofertilizers in Enhancing Yield and Quality of Agaricus bisporus Mushroom	
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, The use of biofertilizers in mushroom cultivation addresses key activities such as nutrient cycling, substrate enhancement, and microbial growth control. Biofertilizers can be categorized based on their functions: The author should strongly emphasize how biofertilizers could reconstruct microbial community for each following activities. o **Nutrient Cycling and Availability**: Nitrogen-fixing bacteria (e.g., *Azotobacter*, *Azospirillum*) and phosphorus-solubilizing bacteria (e.g., *Bacillus*, *Pseudomonas*) play vital roles in providing essential nutrients like nitrogen and phosphorus to support mycelial growth and fruiting body formation. o **Enzymatic Activity**: Biofertilizers promote enzymes such as cellulases and ligninases, which break down complex organic materials, accelerating substrate colonization and improving mushroom health.	
Are subsections and structure of the manuscript appropriate?	**Nutritional Impact**: Mushrooms grown with biofertilizers have higher protein content, essential micronutrients (e.g., zinc, magnesium), and increased levels of antioxidants and bioactive compounds. **Sustainability**: Biofertilizers reduce reliance on chemical fertilizers, improve soil health, and promote microbial diversity, aligning with the global push for sustainable and eco-friendly farming.	
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 minimum of 3-4 sentences may be required for this part.	Practical issues include microbial strain specificity, environmental factors, and storage requirements. These limitations necessitate further research for optimizing biofertilizer use in mushroom cultivation.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	**Incorporate concept paper as AIMS Agriculture and Food 2023** discusses microorganism input into mushroom cultivation on lignocellulosic waste, emphasizing the significance of microbial activity in substrate processing. The input of microorganisms to the cultivation of mushrooms on lignocellulosic waste. AIMS Agriculture and Food 2023, Volume 8, Issue 1: 239- **Incorporate concept paper as Universal Journal of Agricultural Research 2023** uses a linear programming model to determine the optimal substrate formulation for oyster mushrooms, highlighting substrate ingredient ratios for maximum yield. Optimum Formulation Substrate for Oyster Mushroom Cultivation Using Linear Programming Model Universal Journal of Agricultural Research 11(1):158-165	

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Yes, the expression is excellent	
Optional/General comments	It seems bio-fertilizers are not a panacea for the cultivation of everything, it has some positive role in the growth of plants, and microbes. It must follow the environment's role for processing the life cycle.	

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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

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