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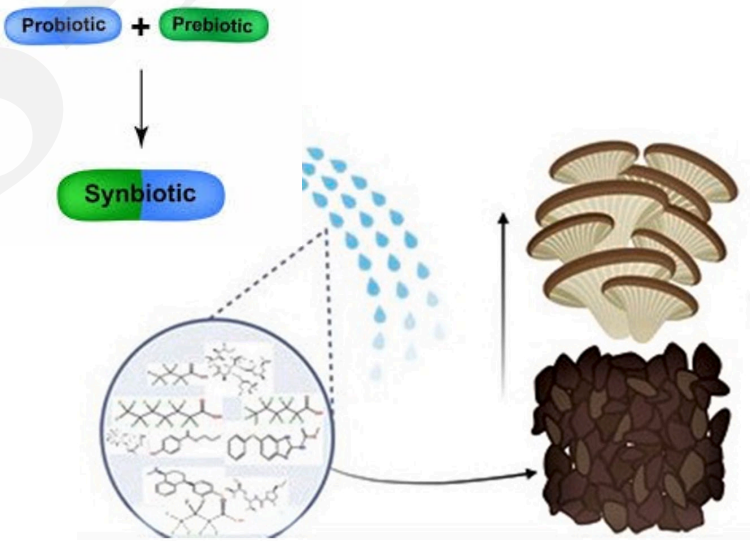
Unlocking the growth potential: harnessing the power of synbiotics to enhance cultivation of *Pleurotus* spp.

Key words: Antioxidant; Biofertilizer; Growth performance; Mushroom cultivation; Pleurotus; Synbiotics

Research Summary

This research mainly focused on the effect of synbiotics on the growth and quality of *P. osteratus* and P. *pulmonarius*:

- **Prebiotics and Synbiotics**
- **Growth Performance**
- **Mushroom Cultivation**
- **Biofertilizer**



Mushroom Cultivation

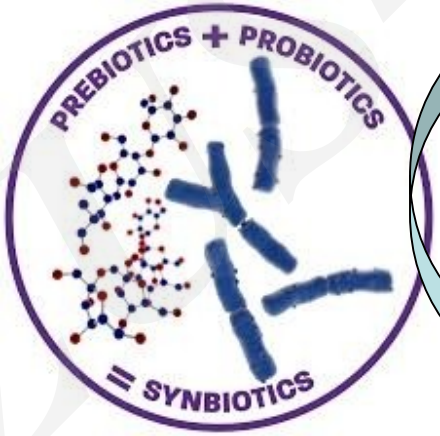
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Innovation points



- **Introduction** of the oyster mushroom (*Pleurotus* spp.) is one of the most widely cultivated mushroom species globally.

- **Summary** of the solution the challenge of inconsistent quality faced by mushroom growers.





- **Emphasis** the potential of using synbiotics as a biofertilizer that is useful for mushroom cultivation



Innovation points

A series of comprehensive tables were generated to summarize the latest knowledge cultivation of *Pleurotus* spp.

Table 1 | Different formulations of synbiotics applied to the cultivation of *P. osteratus* and *P. pulmonarius*

Table 2 | Total yield and biological efficiency of the first flush of *P. osteratus* and *P. pulmonarius* with different synbiotics formulations.

Table 3 | The proximate analysis of the fruiting body *P. osteratus* and *P. pulmonarius* samples A and F.

Table 4 | The mineral content and heavy metal analysis of the fruiting body mushroom samples A and F in *P. osteratus* and *P. pulmonarius.*

Table 5 | Total phenolic concentration (TPC) of mushroom samples.

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