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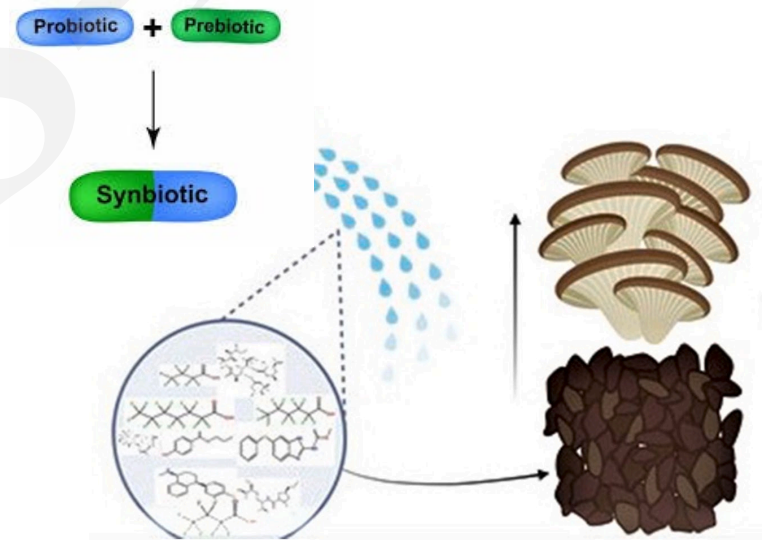
Unlocking the growth potential: harnessing the power of synbiotics to enhance cultivation of *Pleurotus* spp.

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



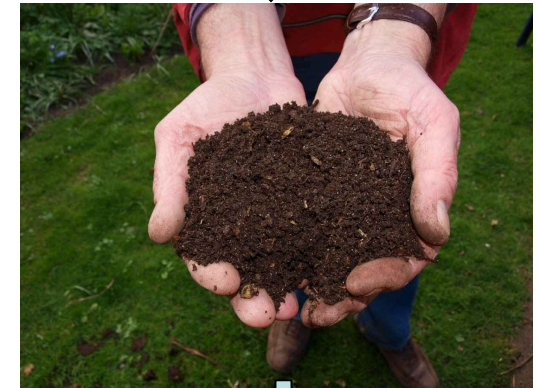
Mushroom Cultivation

Innovation points

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



- **Summary** of the solution to 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.