**Supplementary Materials**

**Study on the community structure and function of symbiotic bacteria from different growth and developmental stages of** ***Hypsizygus marmoreus***

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**Short title:** Mushroom symbiotic bacteria and their function



**Fig. S1** Phylogenetic tree of HZSO-1 strain based on 16S rDNA sequences

Note: The value on the branch point is the support rate. The ruler 0.1 is the evolution distance



**Fig. S2** Dosage effects of 0.22-μm filter-sterilized fermentation broth of *S. odorifera* HZSO-1 on the growth rate of *H. marmoreus* hyphae. Note: Different lowercase letters indicate a significant difference between treatments at the P<0.05 level.

**Table S1 A description of the content of each sample as shown in Figure 7**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | E |
| Hyphae | --- | Mycelia | Mycelia | Mycelia |
| PDA enrichment medium | Cultivation substrate | Cultivation substrate | Cultivation substrate | Cultivation substrate |

**Table S2 OTUs from the different samples and replicates**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SamplesReplicates | HMCK | HMBH | HMBF | HMBm | HMPM |
| 1 | 64 | 39 | 38 | 45 | 458 |
| 2 | 181 | 34 | 61 | 209 | 527 |
| 3 | 32 | 21 | 52 | 86 | 501 |