

Supporting information

Fig. S1. Changes in lignocellulose content in the substrate during the 5 growth phases of *G. lucidum* G0119. Groups marked with different letters were significantly different at the 0.05 level.

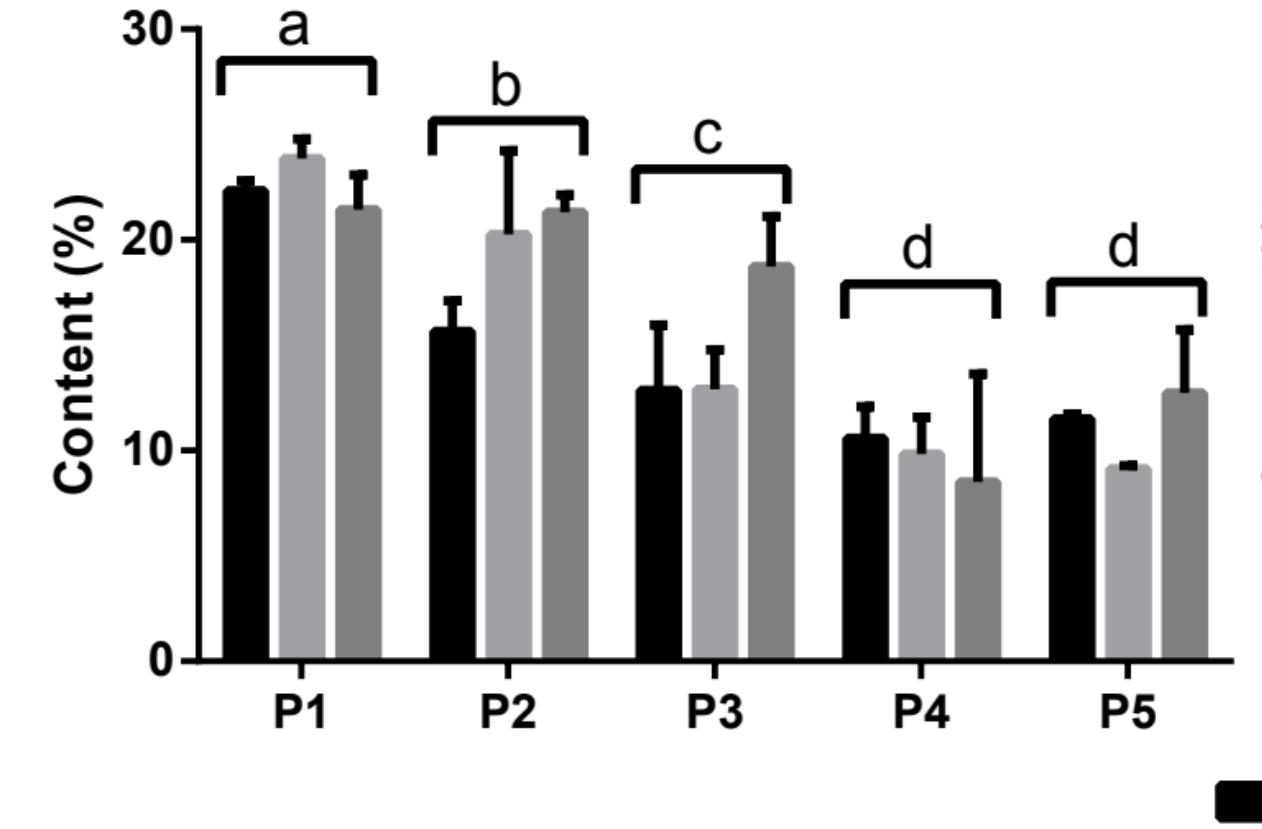
Fig. S2. Changes in carbohydrate contents in the substrate and fruiting bodies during the 5 growth phases of *G. lucidum* G0119. Groups marked with different letters were significantly different at the 0.05 level.

Fig. S3. Changes in triterpenoid contents in fruiting bodies during the 5 growth phases of *G. lucidum* G0119. Groups marked with different letters were significantly different at the 0.05 level.

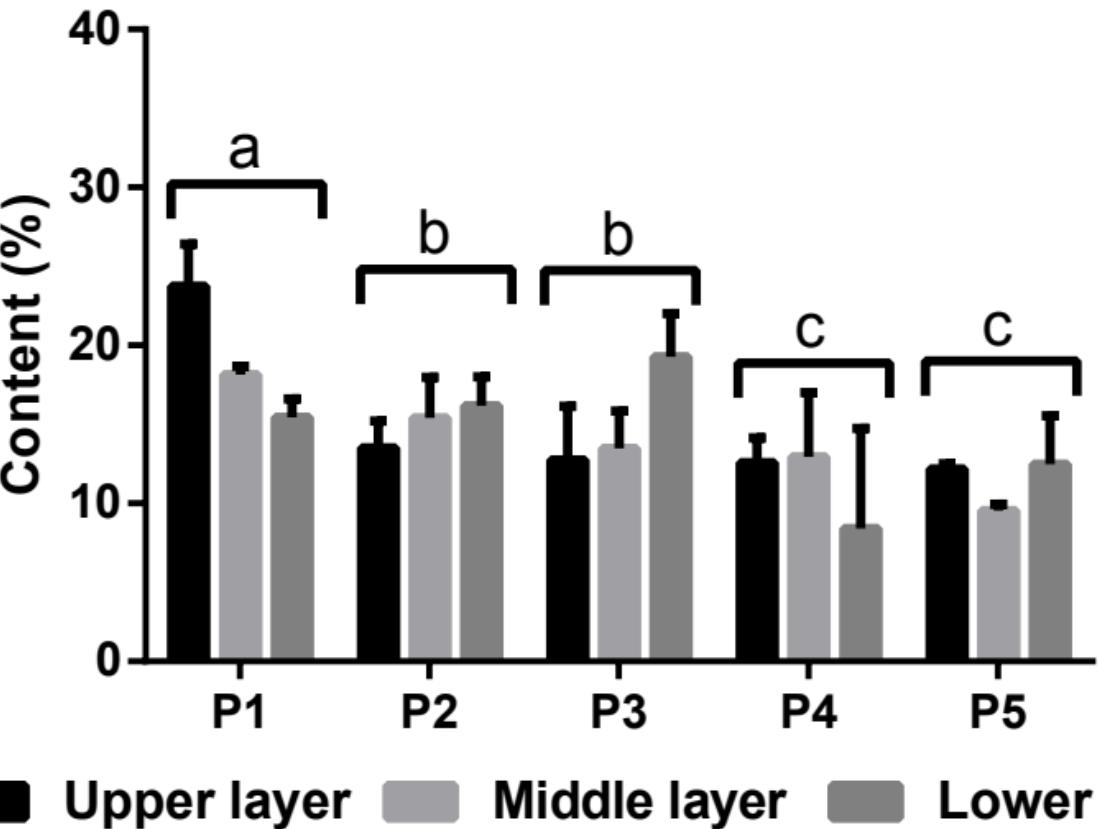
Tab. S1. Genes involved in lignocellulose, carbohydrate and triterpenoid metabolism in the genome of *G. lucidum* G0119.

Tab. S2. Genes encoding CYPs in the genome of *G. lucidum* G0119 and their Pearson correlation coefficients with the expression of LS throughout the growth cycle.

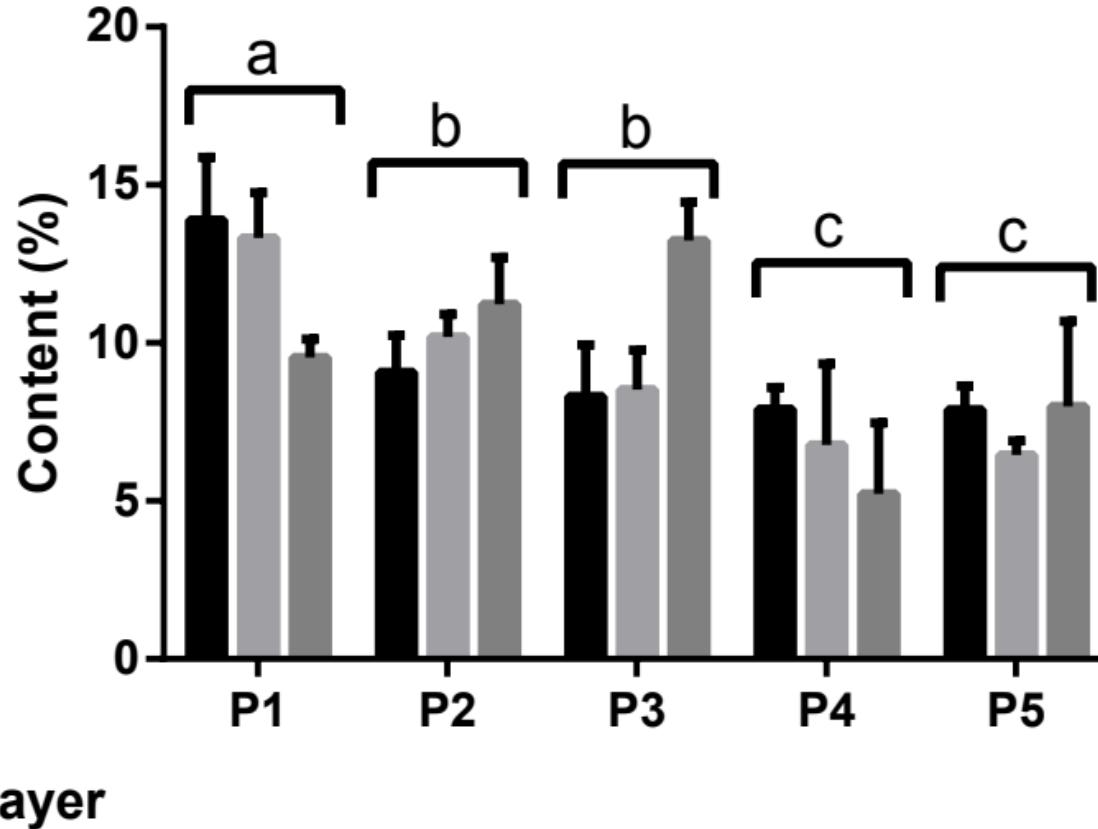
Lignin



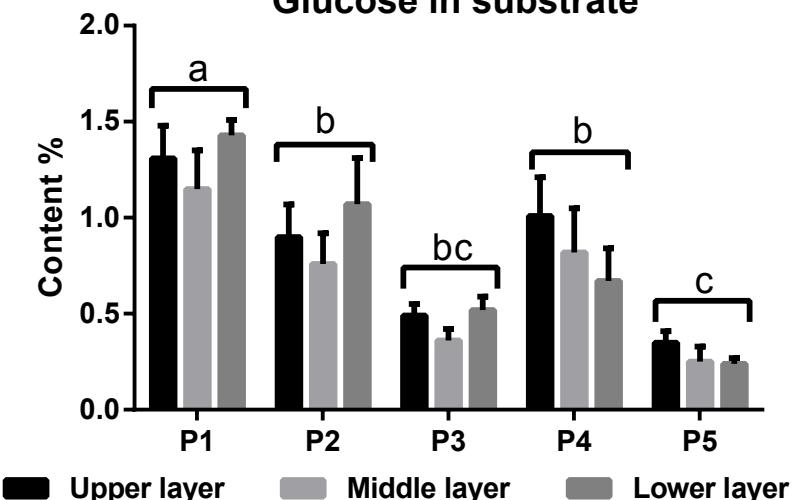
Cellulose



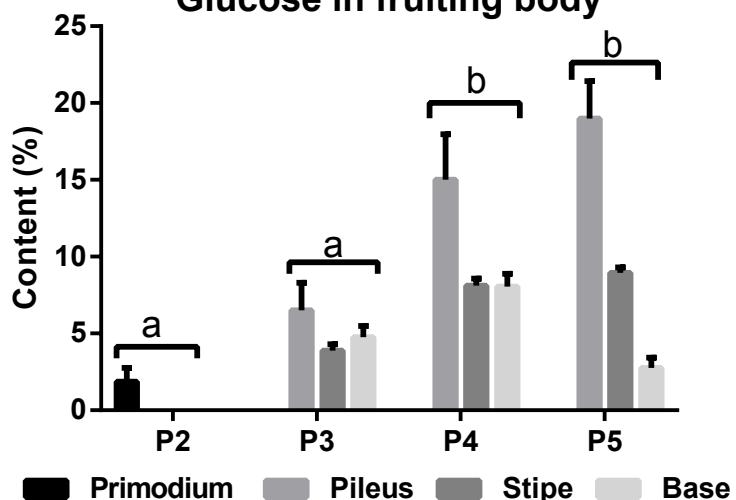
Hemicellulose



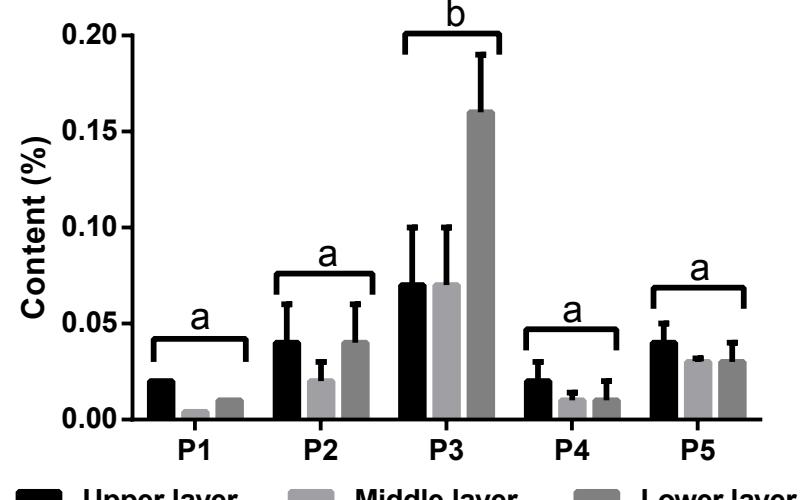
Glucose in substrate



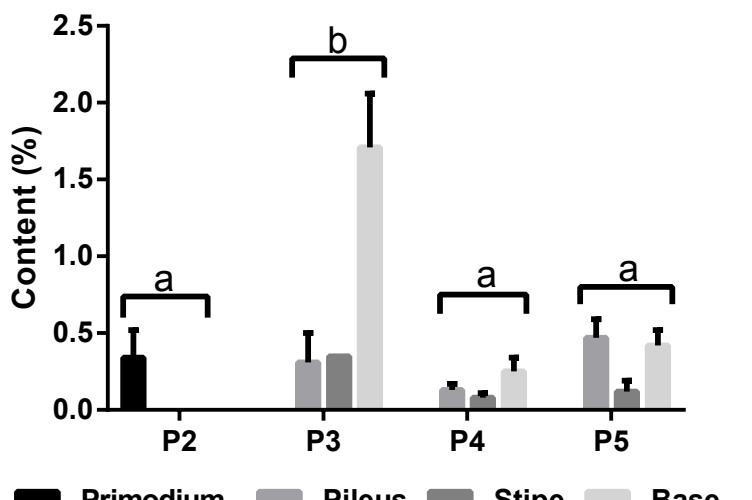
Glucose in fruiting body



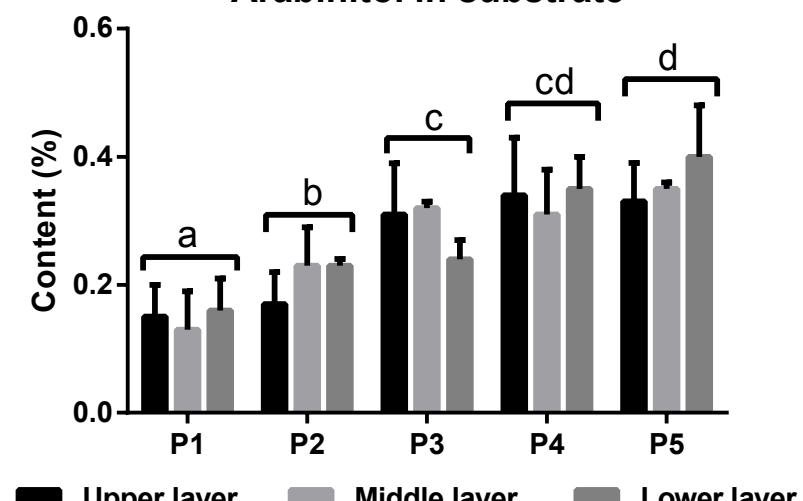
Trehalose in substrate



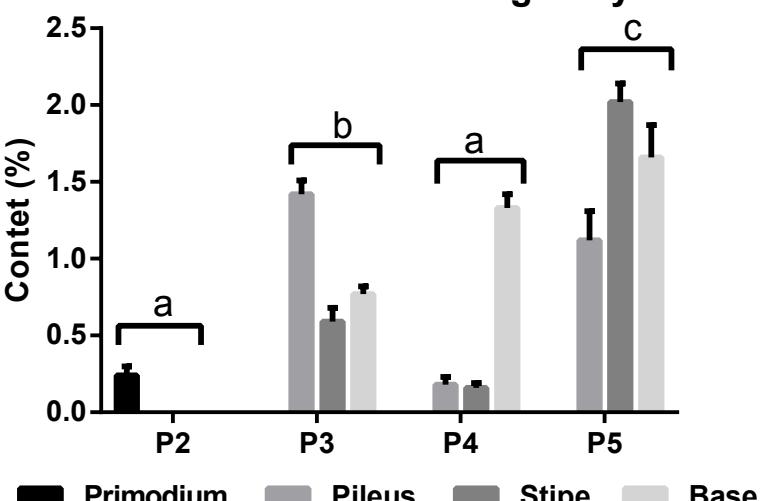
Trehalose in fruiting body



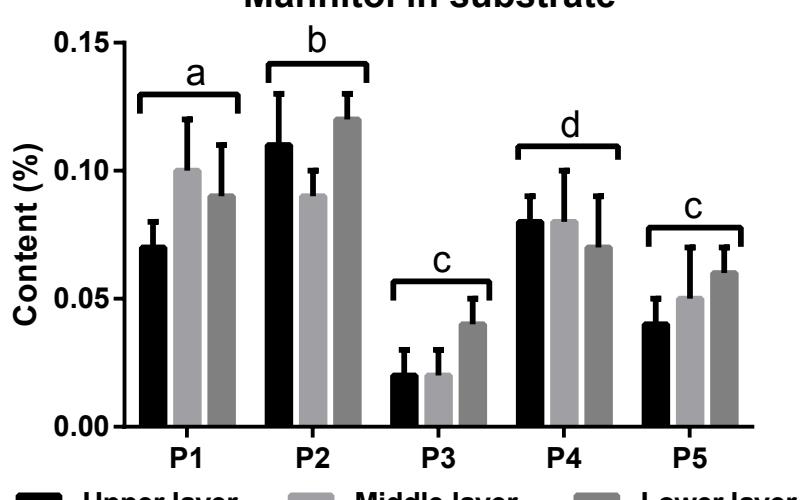
Arabinitol in substrate



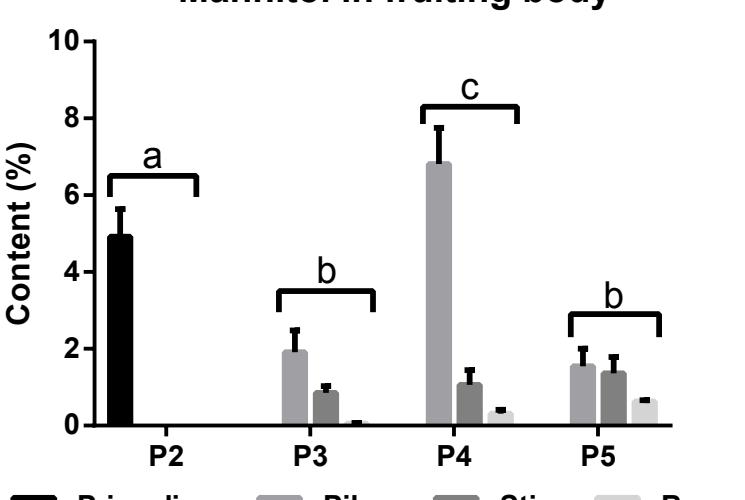
Arabinitol in fruiting body



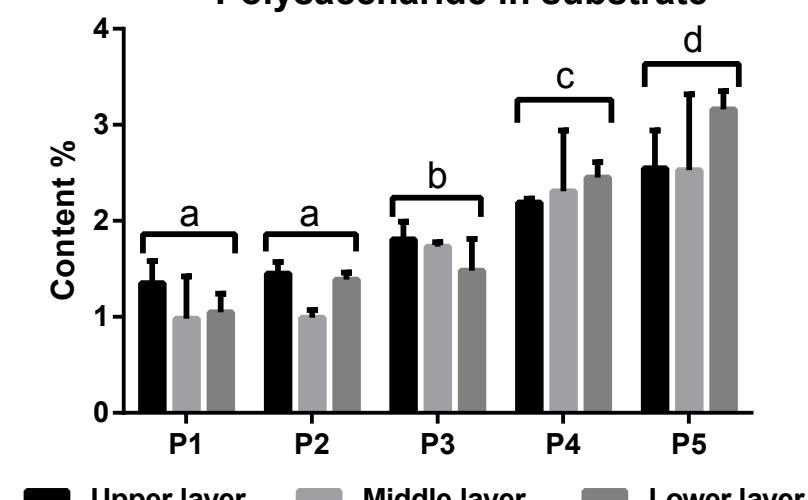
Mannitol in substrate



Mannitol in fruiting body



Polysaccharide in substrate



Polysaccharide in fruiting body

