

**Table S-2 Lignin content and removal determined by semi-quantitative and quantitative  $^{13}\text{C}$ -IS py-GC-MS of control and fungal-treated wheat straw after 7 weeks of fungal growth *Cs* *Ceriporiopsis subvermispora*, *Pe* *Pleurotus eryngii*, *Le* *Lentinula edodes*. Average and standard deviation of analytical triplicates on pooled biological triplicates.**

	<b>Control</b>	<b>Cs1</b>	<b>Cs12</b>	<b>Pe3</b>	<b>Pe6</b>	<b>Le8</b>	<b>Le10</b>
<b>Dry matter (g)</b>	90.2 ± 0.3	84.4 ± 0.4	89.4 ± 0.2	87.3 ± 0.1	88.0 ± 0.2	83.7 ± 1.4	84.6 ± 3.0
<b>Lignin content (% w/w)</b>							
<b>semi-quan</b>	30.5 ± 1.4	8.6 ± 0.4	9.3 ± 0.8	16.2 ± 1.2	15.6 ± 0.2	10.9 ± 0.9	12.2 ± 0.2
<b><math>^{13}\text{C}</math>-IS quan</b>	23.2 ± 0.8	8.3 ± 0.3	9.3 ± 0.3	13.7 ± 0.7	15.6 ± 1.0	10.3 ± 0.4	10.5 ± 0.2
<b>Lignin removal (% w/w)</b>							
<b>semi-quan</b>	-	73.7 ± 5.0	69.7 ± 6.5	48.6 ± 4.2	50.1 ± 2.4	66.8 ± 6.4	62.6 ± 3.8
<b><math>^{13}\text{C}</math>-IS quan</b>	-	66.4 ± 3.5	60.3 ± 3.0	43.0 ± 2.6	34.6 ± 2.6	58.8 ± 3.1	57.4 ± 3.2