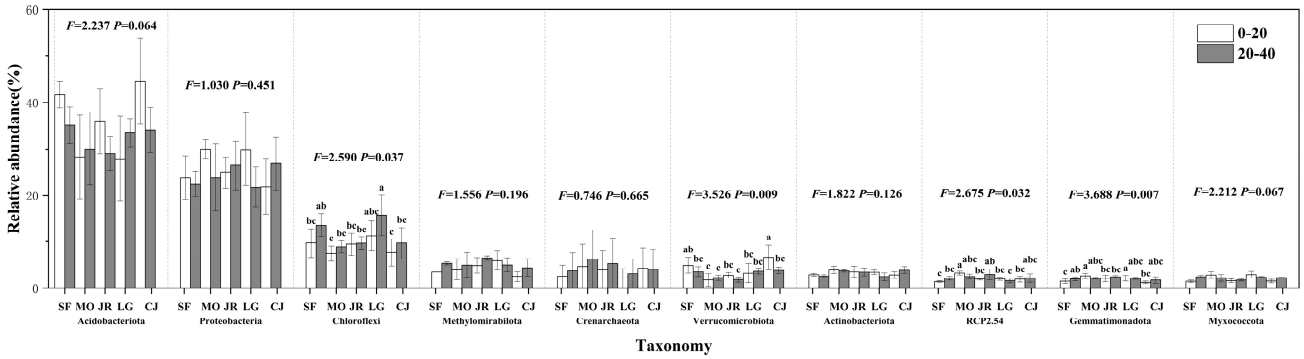
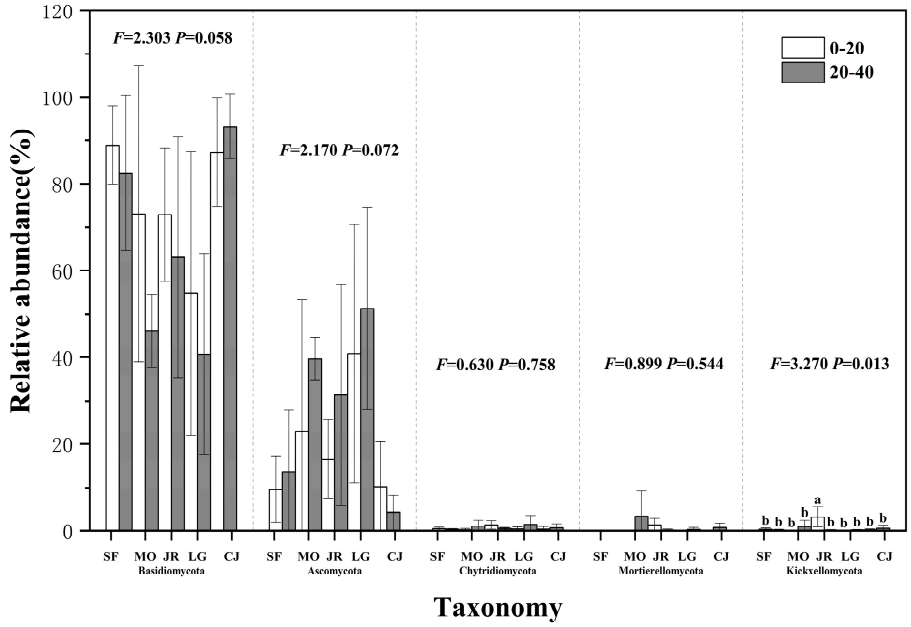


Supplementary Figure S1. Differences in the relative abundance of bacteria groups at the phylum level under different treatments. The groups accounting for ≥1% are shown, while those at <1% and unclassified are not shown. *F*- and *p*-values of each phylum under different tree species and soil layer treatments were obtained from the results of the one-way analysis of variance. Different lowercase letters indicate significant differences among treatments, with $p < 0.05$ according to Duncan's multiple range test (DMRT). SF: secondary forest; MO: *Magnolia officinalis*; JR: *Juglans regia*; LG: *Larix gmelinii*; CJ: *Cryptomeria japonica*; 0–20: 0–20 cm soil layer; 20–40: 20–40 cm soil layer.



Supplementary Figure S2. Differences in the relative abundance of fungi groups at the phylum level under different treatments. The groups accounting for ≥1% are shown, while those at <1% and unclassified are not shown. *F*- and *p*-values of each phylum under different tree species and soil layer treatments were obtained from the results of the one-way analysis of variance. Different lowercase letters indicate significant differences among treatments, with $p < 0.05$ according to Duncan's multiple range test (DMRT). SF: secondary forest; MO: *Magnolia officinalis*; JR: *Juglans regia*; LG: *Larix gmelinii*; CJ: *Cryptomeria japonica*; 0–20: 0–20 cm soil layer; 20–40: 20–40 cm soil layer.