

**Fig. 1S.** The evolution of soil moisture (a), electrical conductivity (b) and soil temperature (c) (mean and ± standard error) in each of four treatment conditions: soil only (Control), soil mixed with oilseed rape residues (OR), soil mixed with rye residues (Rye), soil mixed with wheat straw (WS), over a 105-day incubation period. Stars indicate significant differences between treatments within the same day according to one-way ANOVA (\* *p* < 0.05, \*\* *p* < 0.01, and \*\*\* *p* < 0.001).