Supplementary Material

Table S1. Statistical test of the effects of different research sites, season, and their interactions on soil water content and soil microbial biomass based on two-factor AVOVA.

Index	Site	Season	Site × Season
Soil water content	< 0.001	< 0.001	0.014
MBC	< 0.001	0.001	0.573
MBN	< 0.001	< 0.001	0.421

Table S2. Statistical test of the effects of research sites, season, and their interactions on absolute abundance of PLFAs (nmol g^{-1} soil), ratios of F/B and G+/G- in November 2016 and June 2017.

C	The Absolute Abundances of PLFAs (nmol g-1 soil)						
Source	В	G+	G-	F	Total PLFAs	F/B	G+/G-
Site	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.100
Season	0.026	0.051	0.001	0.026	0.009	0.108	0.147
Site × Season	0.099	0.183	0.014	0.025	0.155	< 0.001	< 0.001

Table S3. Statistical test of the effects of research site, season, and their interactions on relative abundances PLFAs (mol %) in November 2016 and June 2017.

Source	The Relative Abundances PLFAs (mol %)						
	В	G+	G-	F	ACT	AMF	
Site	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Season	< 0.001	< 0.001	0.256	< 0.001	< 0.001	0.008	
Site × Season	< 0.001	< 0.001	0.731	< 0.001	< 0.001	0.829	