

Table S1. Spearman's correlation coefficients between Alpha-diversity metrics of bacterial community and biogeochemical characteristics of soil samples.

Variables	Shannon	Richness	Evenness
SMC	<b>-0.664 *</b>	-0.286	<b>-0.783 **</b>
pH	0.252	0.413	0.014
ST	<b>-0.628 *</b>	-0.370	<b>-0.716 **</b>
TK	0.266	0.314	0.056
TN	0.224	0.018	0.336
TP	<b>0.874 **</b>	0.533	<b>0.853 **</b>
AK	0.063	-0.180	0.238
AP	-0.503	-0.360	-0.371
NO <sub>3</sub> <sup>-</sup>	0.196	0.265	-0.035
NH <sub>4</sub> <sup>+</sup>	<b>-0.685 *</b>	<b>-0.614 *</b>	<b>-0.636 *</b>
SOM	0.196	-0.014	0.343
C/N	-0.035	0.039	-0.154

Data in bold indicate significant correlations, \*: significant at P < 0.05; \*\*: significant at P < 0.01; \*\*\*: significant at P < 0.001.