

**Tillage promotes the migration and coexistence of bacteria communities in an agro-pastoral ecotone of Tibet, China**

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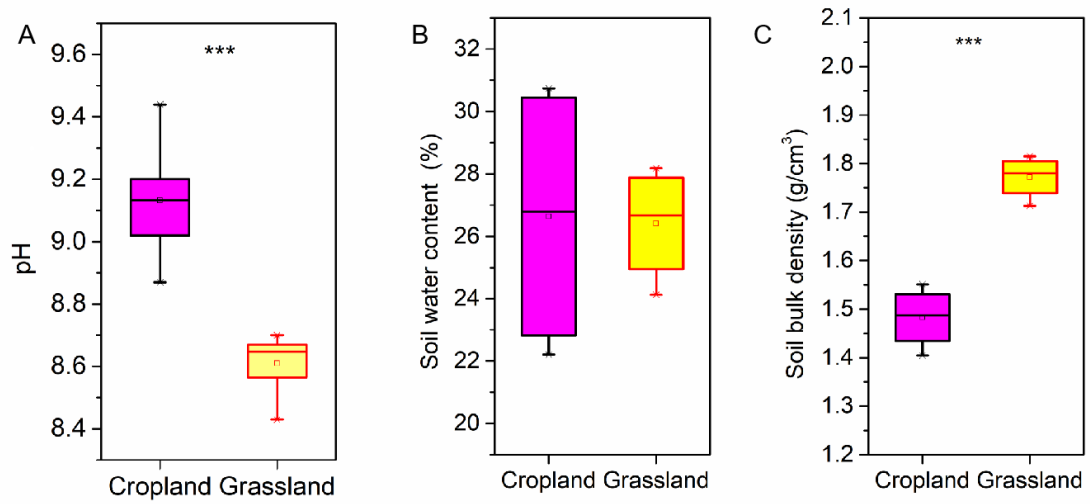
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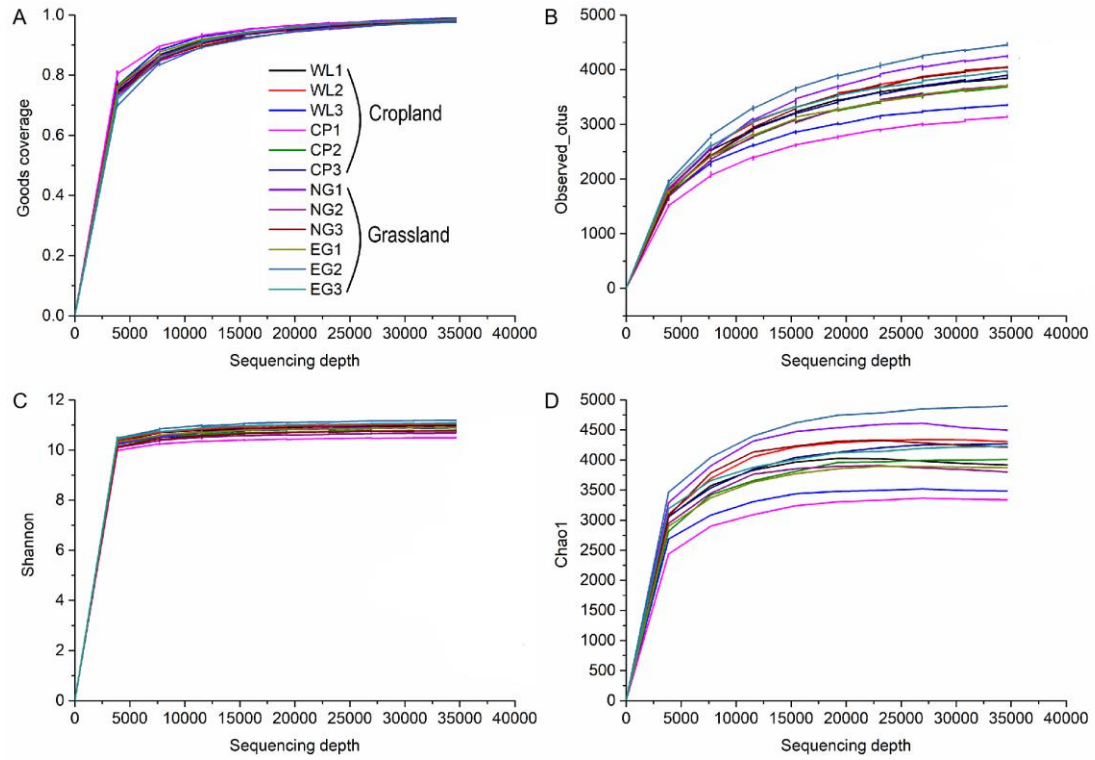
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**Table S1.** The alpha diversity indexes of the bacterial community in cropland and grassland.

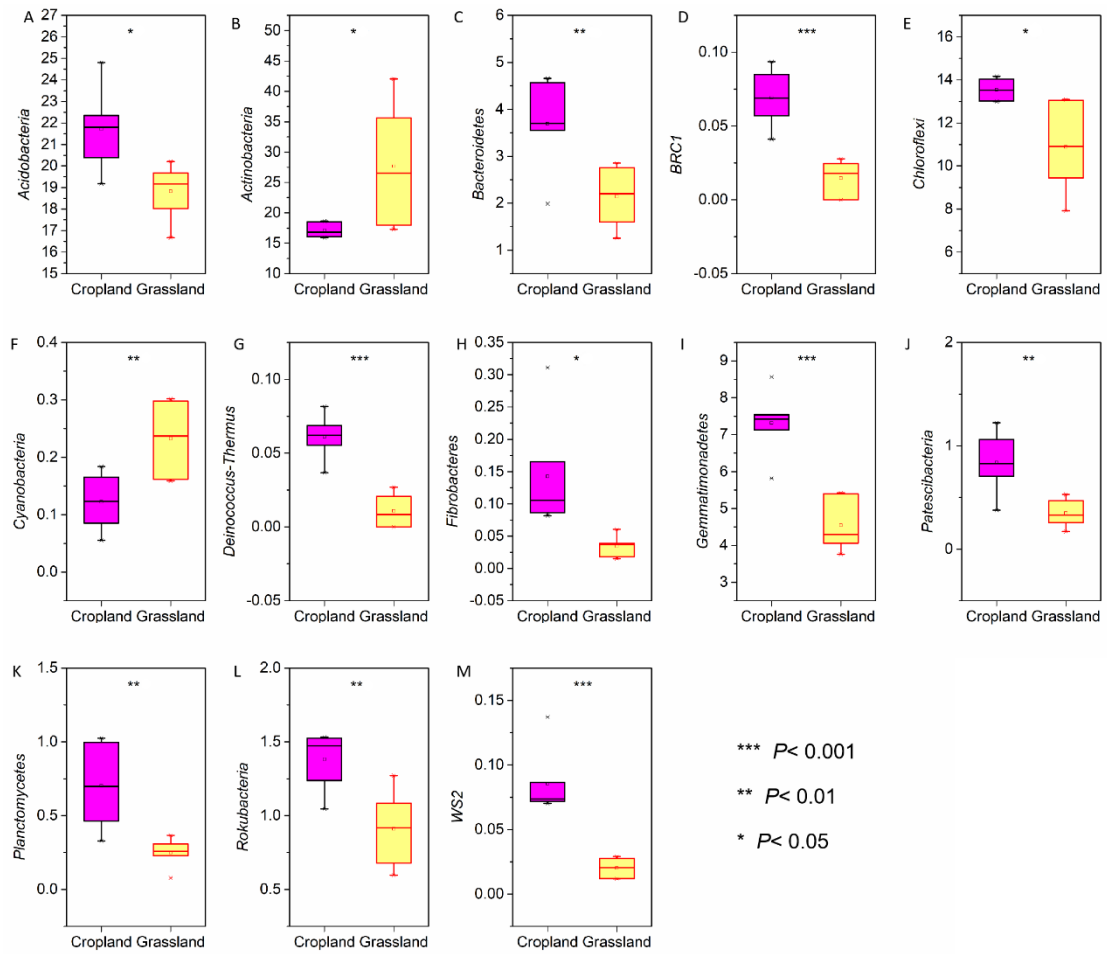
		Chao1	Shannon	Goods coverage	Simpson	Pielou evenness index	Observed species
Cropland	WL1	3918.4	11.0	0.9892	0.9991	0.9222	3841.6
	WL2	4307.0	11.0	0.9815	0.9991	0.9199	4042.5
	WL3	3487.2	10.8	0.9886	0.9989	0.9195	3352.2
	CP1	3341.3	10.5	0.9862	0.9987	0.9036	3139.0
	CP2	4009.3	10.8	0.9820	0.9989	0.9104	3706.6
	CP3	4272.0	10.9	0.9799	0.9990	0.9125	3891.8
Grassland	NG1	4496.8	10.9	0.9799	0.9988	0.9059	4251.9
	NG2	3802.3	10.7	0.9878	0.9986	0.9012	3703.3
	NG3	4212.9	10.8	0.9831	0.9986	0.8987	4043.9
	EG1	3873.9	10.9	0.9857	0.9989	0.9192	3692.6
	EG2	4894.9	11.2	0.9768	0.9991	0.9228	4457.4
	EG3	4227.6	11.1	0.9837	0.9991	0.9269	3955.5
<i>p</i> -value		0.15	0.39	0.46	0.49	0.70	0.09



**Figure S1.** The difference of soil physicochemical properties between cropland and grassland via independent-samples T-test. \*\*\* showed a significant difference at the 0.001 level.



**Figure S2.** The rarefaction curves of Good's coverage (Fig. S2A), observed OTUs number (Fig. S2B), Shannon (Fig. S2C), and Chao1 (Fig. S2D) of the bacterial communities in cropland and grassland.



**Figure S3.** The difference analysis of bacterial communities between the cropland and grassland at the phylum level via independent sample t-test. The \*\*\* was a significant difference in the bacteria between cropland and grassland at the  $p < 0.001$  level, the \*\* was a significant difference at the  $p < 0.01$  level, and the \* was a significant difference at the  $p < 0.05$  level.