

Supplementary Material

Effects of simulated acid rain on hydrochemical factors and microbial community structure in red soil aquifers

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Tables

Table S1. The alpha diversity of microbial community in 12 soil columns simulated acid rain leaching.

pH	Diameter grade	ID	Reads	OUT	Sobs	Shannon	Simpson	Ace	Chao	Coverage
7.0	Fine	F7	54111	707	699.	3.307	0.147	880.59	879.98	0.995
	Medium	M7	68337	730	654	3.829	0.069	869.12	885.41	0.995
	Coarse	C7	73054	878	786	4.137	0.090	1040.4	1047.35	0.995
5.5	Fine	F5.5	67213	778	707	3.897	0.049	1079.09	1011.45	0.994
	Medium	M5.5	66332	741	679.5	3.606	0.087	1053.28	975.117	0.995
	Coarse	C5.5	59293	676	626.5	2.867	0.212	1103.93	947.59	0.994
4.5	Fine	F4.5	52234	549	535	2.755	0.224	711.66	714.31	0.996
	Medium	M4.5	72347	523	469	2.766	0.202	598.12	590.09	0.997
	Coarse	C4.5	64418	830	536	2.060	0.212	1059.94	714.64	0.991
3.5	Fine	F3.5	60469	870	875	2.969	0.222	1064.88	1041.81	0.995
	Medium	M3.5	62070	740	684	3.018	0.219	854.26	838.72	0.996
	Coarse	C3.5	61538	708	669	3.422	0.116	778.40	764.85	0.996

Figures

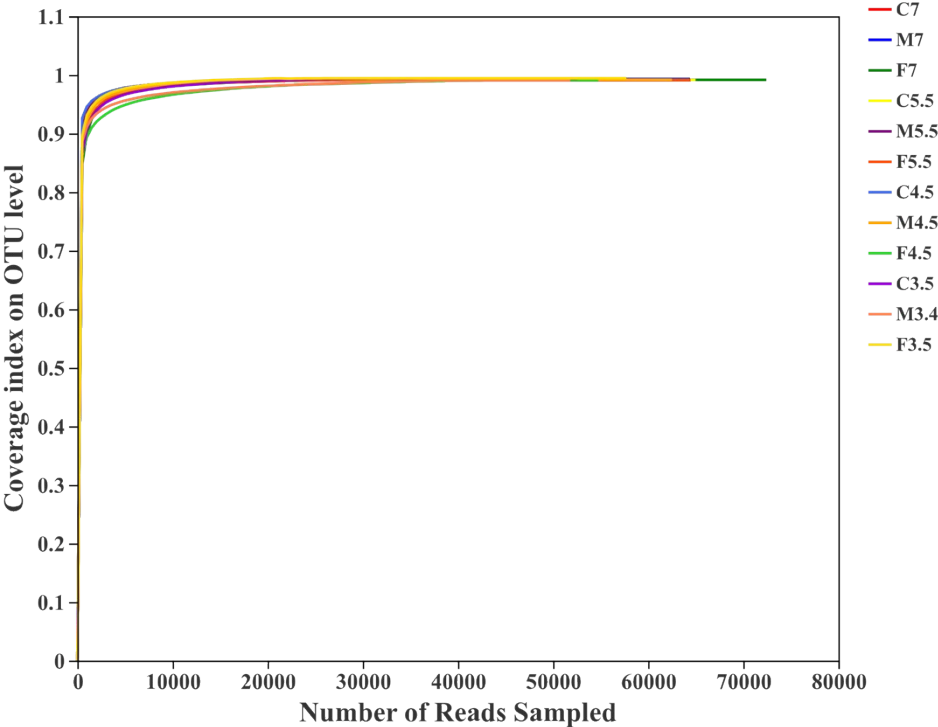


Fig. S1 Coverage rarefaction curves plot.

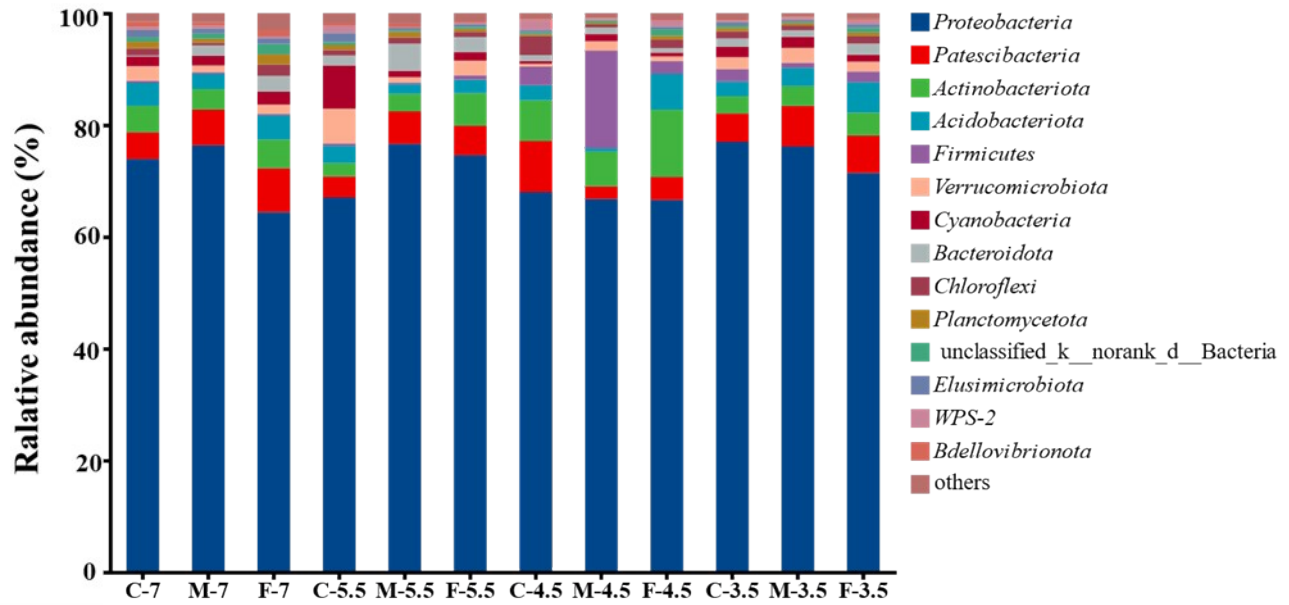


Fig. S2 Relative abundance of the microbial in leachate at the phylum level.

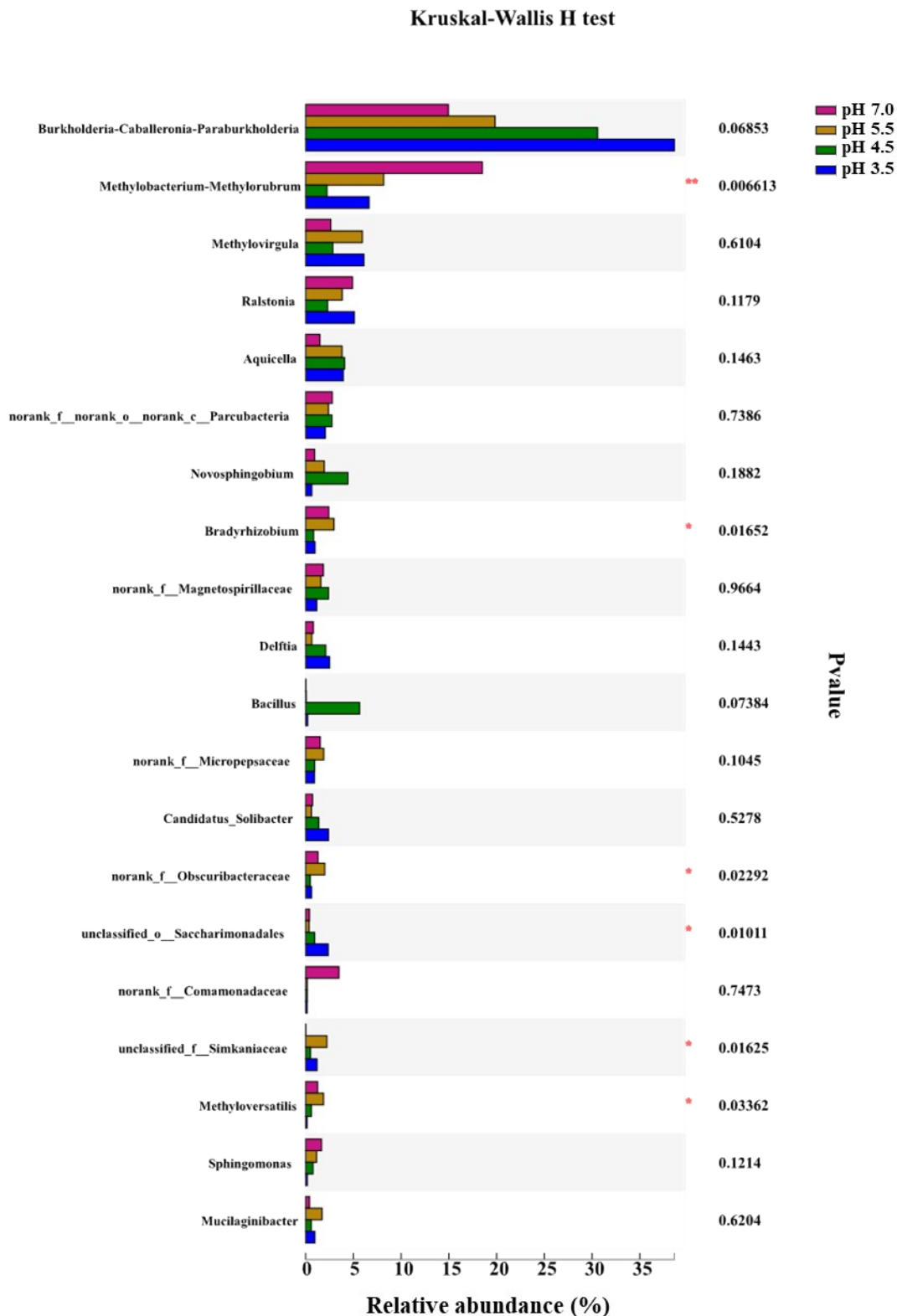


Fig. S3 A Kruskal-Wallis H test of the differences in microbial community composition at the genus level among different pH treatments. (Top 20; * $p \leq 0.05$; ** $p \leq 0.01$).