

Supplementary Materials

Figures

Figure S1. Composition of the bacterial community. A; Community heatmap at the genus level, B; Circos plot of bacterial phyla. LZ, HY2, HY6, HW2, HW6, HH, HB, HS, and LH; continuous cropping of *C. chinensis* for 5 years, maize continuous cropping for 2 years, maize continuous cropping for 6 years, *P. multiflorum* continuous cropping for 2 years, *P. multiflorum* continuous cropping for 6 years, sweet potato continuous cropping for 2 years, *F. thunbergia* continuous cropping for 2 years, cabbage continuous cropping for 2 years, fallow field, respectively.

Figure S2. Rarefaction curve of the bacterial community. LZ, HY2, HY6, HW2, HW6, HH, HB, HS, and LH; continuous cropping of *C. chinensis* for 5 years, maize continuous cropping for 2 years, maize continuous cropping for 6 years, *P. multiflorum* continuous cropping for 2 years, *P. multiflorum* continuous cropping for 6 years, sweet potato continuous cropping for 2 years, *F. thunbergia* continuous cropping for 2 years, cabbage continuous cropping for 2 years, fallow field, respectively.

Figure S3. Hierarchical clustering analysis. LZ, HY2, HY6, HW2, HW6, HH, HB, HS, and LH; continuous cropping of *C. chinensis* for 5 years, maize continuous cropping for 2 years, maize continuous cropping for 6 years, *P. multiflorum* continuous cropping for 2 years, *P. multiflorum* continuous cropping for 6 years, sweet potato continuous cropping for 2 years, *F. thunbergia* continuous cropping for 2 years, cabbage continuous cropping for 2 years, fallow field, respectively.

Tables

Table S1. Redundancy analysis of soil physicochemical properties and bacterial phyla.

Table S2. Redundancy analysis of soil enzyme activities and bacterial phyla.

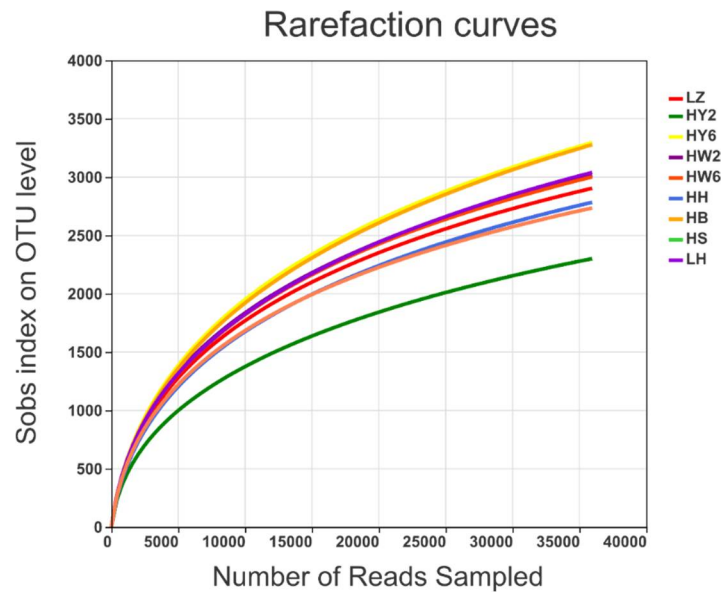


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Hierarchical clustering tree on OTU level

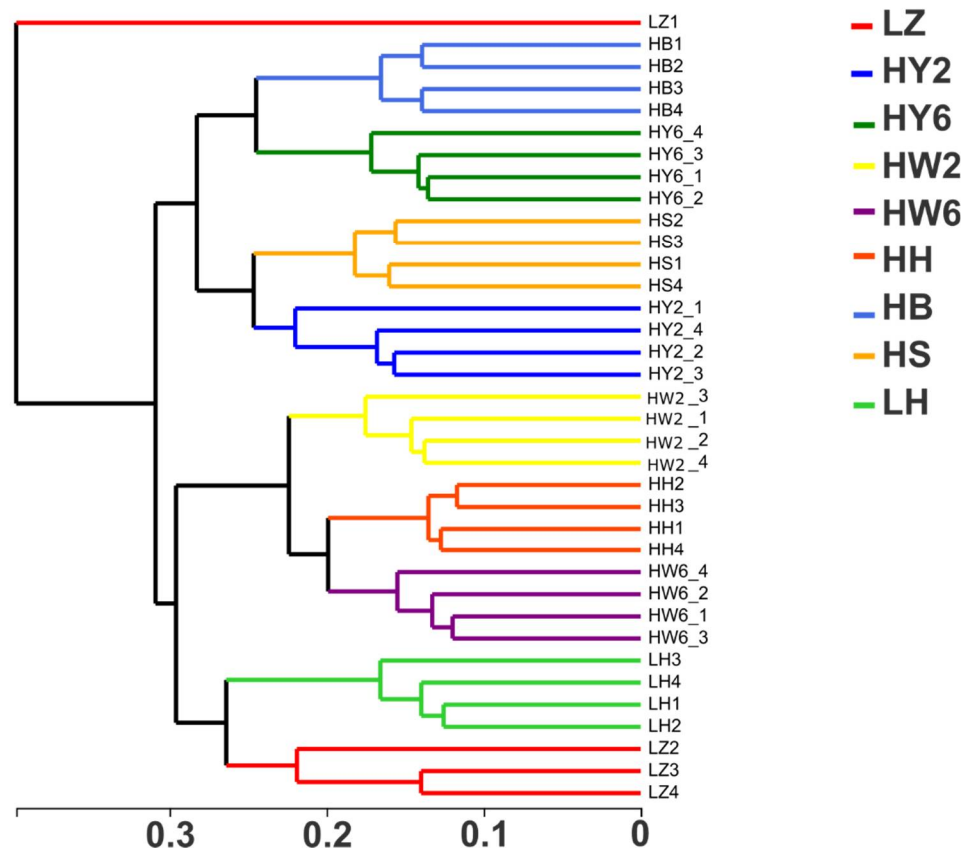


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Table S1. Redundancy analysis of soil physicochemical properties and bacterial phyla.

Physicochemical Properties	RDA1	RDA2	r ²	<i>p</i> -Value
TP	0.2855	−0.9584	0.3006	0.002
TN	−0.3506	−0.9365	0.3215	0.003
AP	0.1757	−0.9844	0.2317	0.011
AK	0.7948	−0.6069	0.2242	0.018
AN	−0.2876	−0.9577	0.1829	0.024
OM	−0.6083	−0.7937	0.1204	0.109
pH	0.8636	−0.5042	0.0797	0.219
TK	0.3774	−0.9261	0.0544	0.346

TP; total phosphorus, TN; total content of nitrogen, TK; total content of potassium, AP; available phosphorus, AN; available nitrogen, AK; available potassium, OM; organic matter.

Table S2. Redundancy analysis of soil enzyme activities and bacterial phyla.

Soil Enzyme Activities	RDA1	RDA2	r ²	<i>p</i> -Value
URE	−0.872	−0.4896	0.4783	0.001
PHO	−0.9177	0.3972	0.4763	0.001
INV	−0.9974	0.0727	0.262	0.005

URE; soil urease activity, PHO; phosphatase activity, INV: sucrose activity.