Supplementary table and figure.

Table.S1 The Dissimilarity analysis between cultivars based on MRPP, ANOSIM and PERMANOVA approach

Comparison	MRPP		ANOSIM		PERMANOVA	
	Delta	*P*	R	*P*	R^2	*P*
BXZ VS. ZFC	0.656	0.008*	0.796	0.005**	1.76	0.014*
BXZ VS. RG	0.6402	0.012*	0.712	0.006**	1.8364	0.006**
BXZ VS. MX	0.6406	0.011*	0.804	0.009**	2.0047	0.008**
BXZ VS. BHZ	0.6904	0.011*	0.48	0.011*	1.6237	0.004**
ZFC VS. RG	0.6217	0.021*	0.28	0.021*	1.2279	0.011*
ZFC VS. MX	0.6222	0.016*	0.496	0.009**	1.4649	0.013*
ZFC VS. BHZ	0.6719	0.007**	0.496	0.007**	1.6691	0.009**
RG VS. MX	0.6063	0.008**	0.512	0.011*	1.3753	0.006**
RG VS. BHZ	0.6561	0.009**	0.504	0.01**	1.578	0.013*
MX VS. BHZ	0.6565	0.01**	0.564	0.013*	1.8058	0.012*

Table. S2 The soil properties of different tea cultivars

Soil properties	BXZ	ZFC	RG	MX	BHZ
TP (mg kg^{-1})	288a	226ab	237ab	147c	253a
TN (mg kg^{-1})	1288ab	1490a	1481a	1200b	1512a
NO_3-N (mg kg^{-1})	60.07a	59.48a	61.00a	64.36a	61.76a
NH_4-N (mg kg^{-1})	8.80a	10.44a	10.65a	13.17a	12.21a
AP (mg kg^{-1})	25.60a	17.34b	10.77bc	3.46c	27.48a
TOC (%)	0.97b	1.18ab	1.09b	1.19ab	1.43a
Moisture (%)	0.19a	0.13a	0.15a	0.13a	0.14a
pH	4.21b	4.33ab	4.50a	4.52a	4.38ab

Supplementary Figure Captions

Fig.S1 Rarefaction curves of soil microbial communities of different tea cultivars.

Fig.S2 Relative abundances of the domain phyla of microbial communities in different tea cultivar soils at the phylum level.

Figure. S1

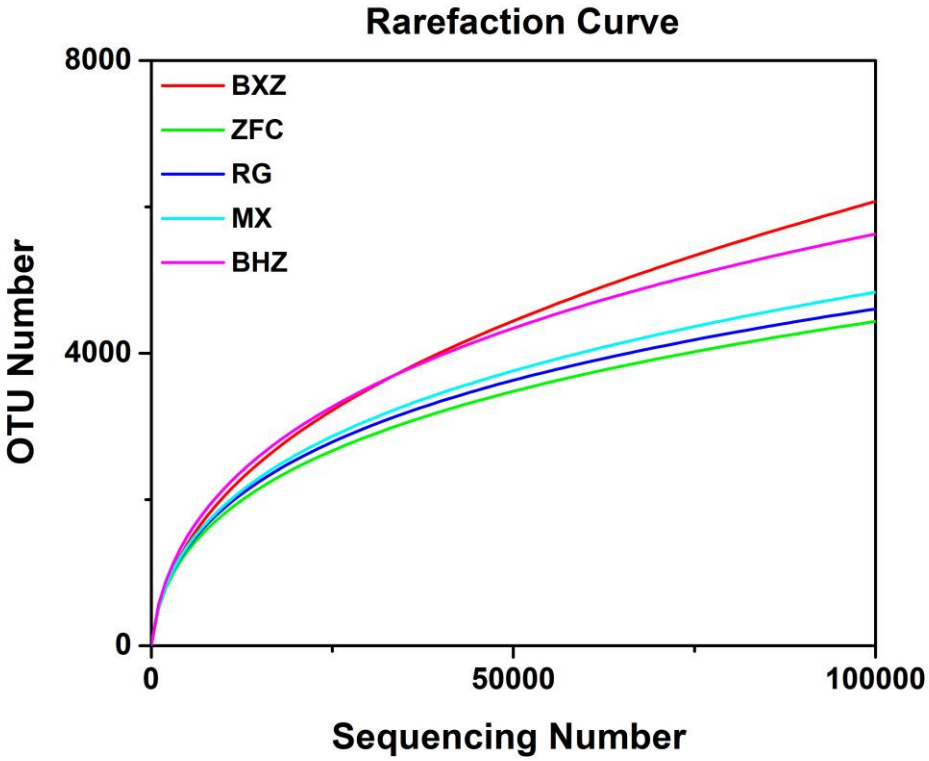
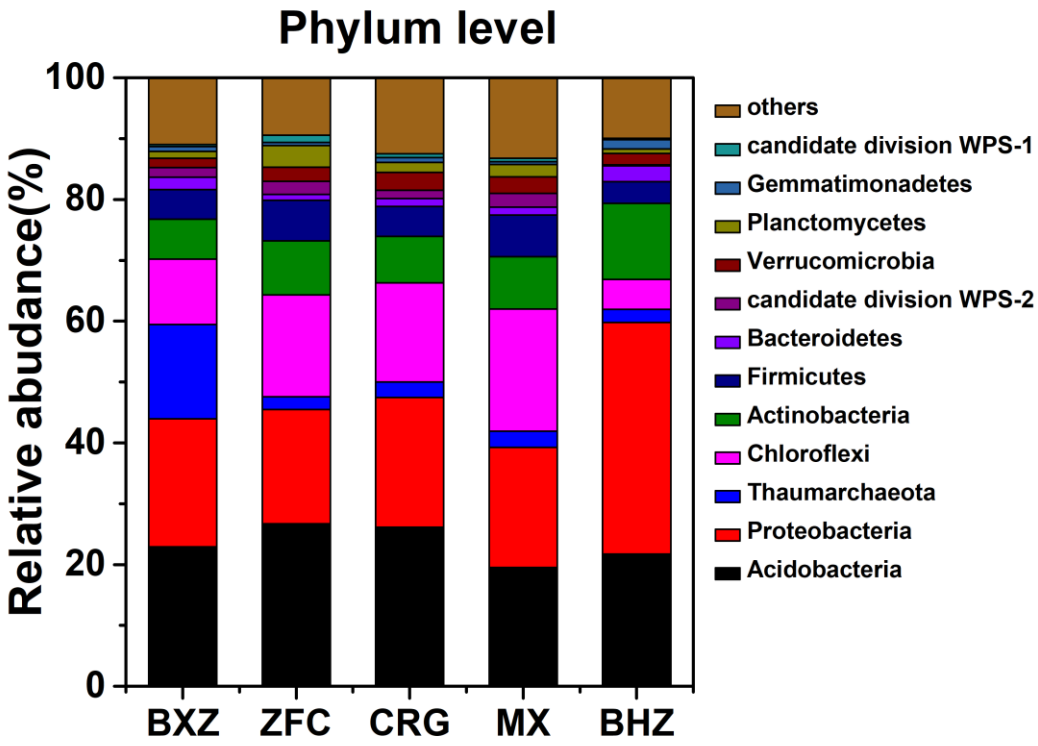

Rarefaction Curve
8000
4000
0
OTU Number
BXZ
ZFC
RG
MX
BHZ
0
50000
100000
Sequencing Number

Figure. S2


Phylum level
Relative abudance(%)
100
80
60
40
20
0
BXZ
ZFC
CRG
MX
BHZ
others
candidate division WPS-1
Gemmatimonadetes
Planctomycetes
Verrucomicrobia
candidate division WPS-2
Bacteroidetes
Firmicutes
Actinobacteria
Chloroflexi
Thaumarchaeota
Proteobacteria
Acidobacteria