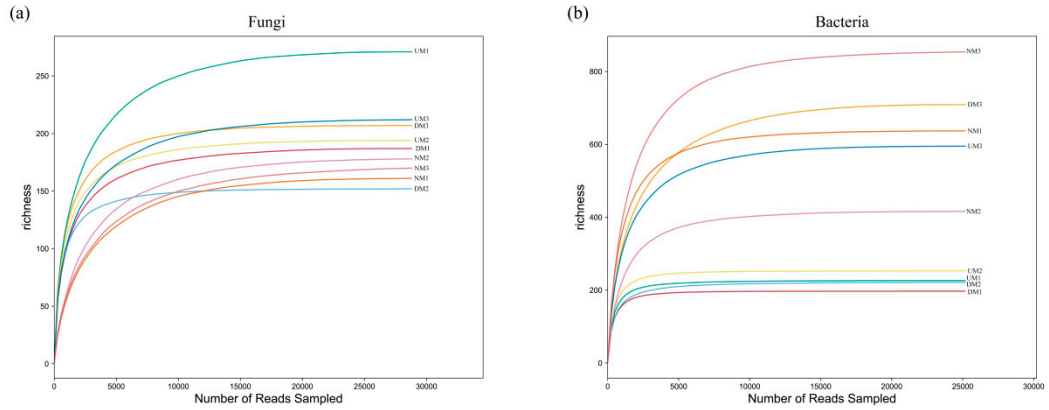
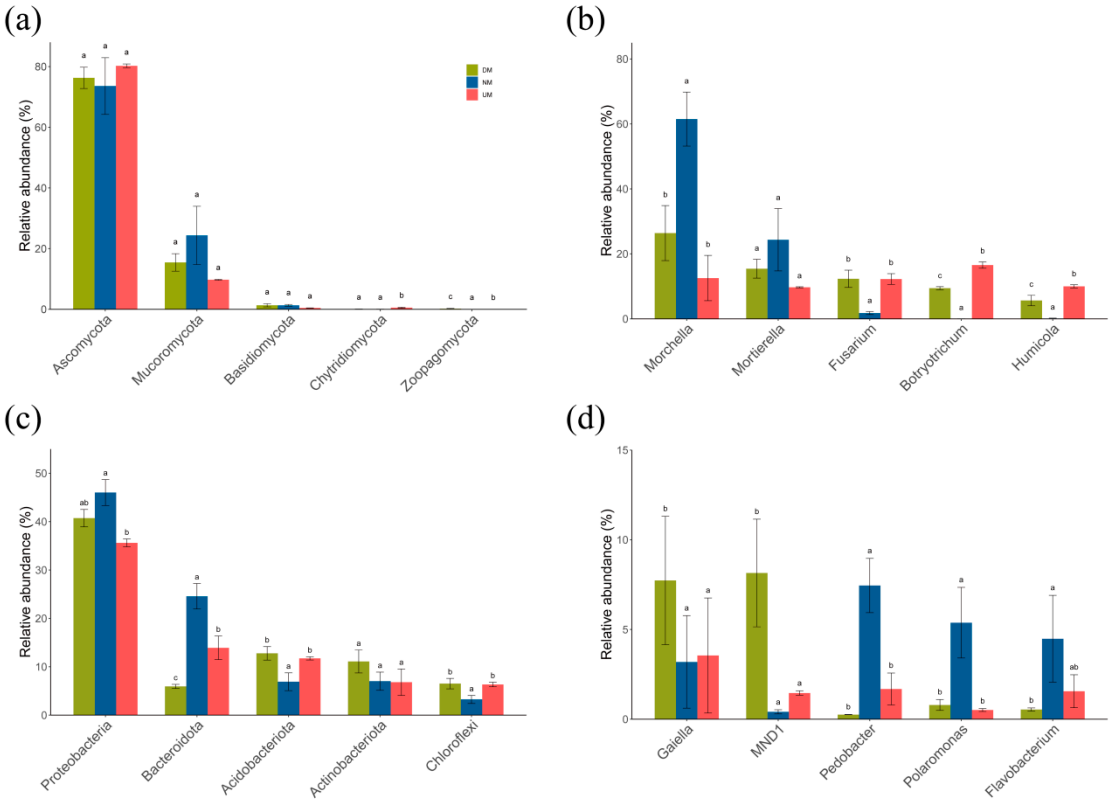
Supplementary Material

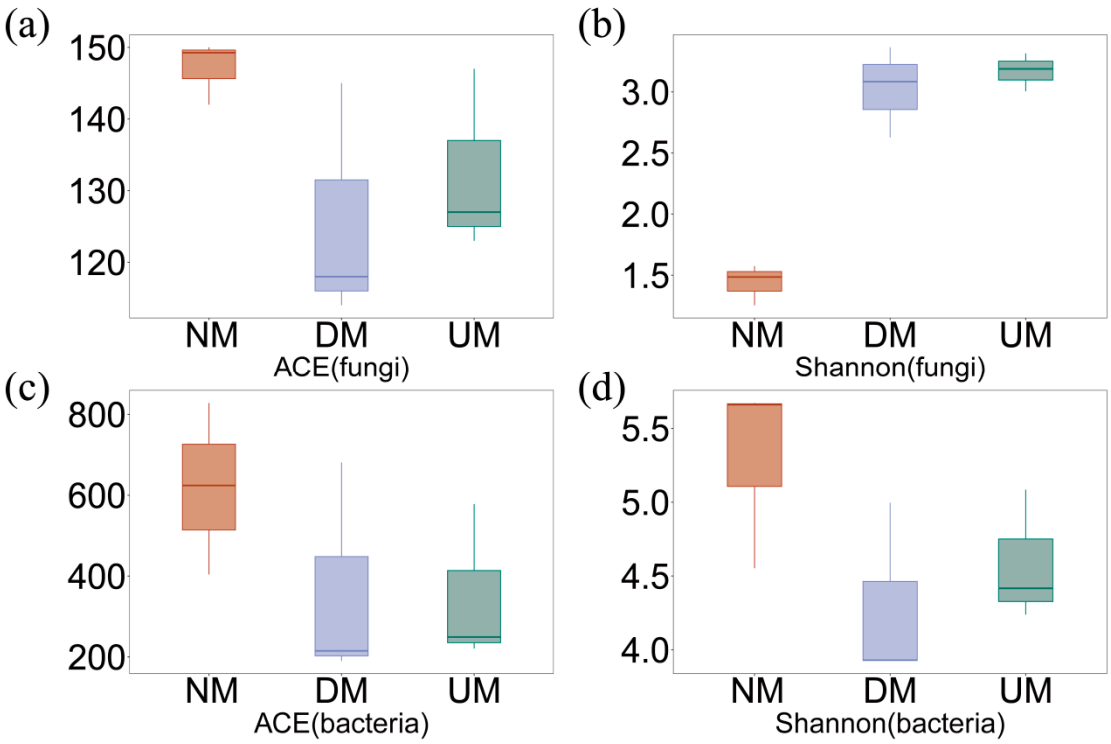
Supplementary Figures



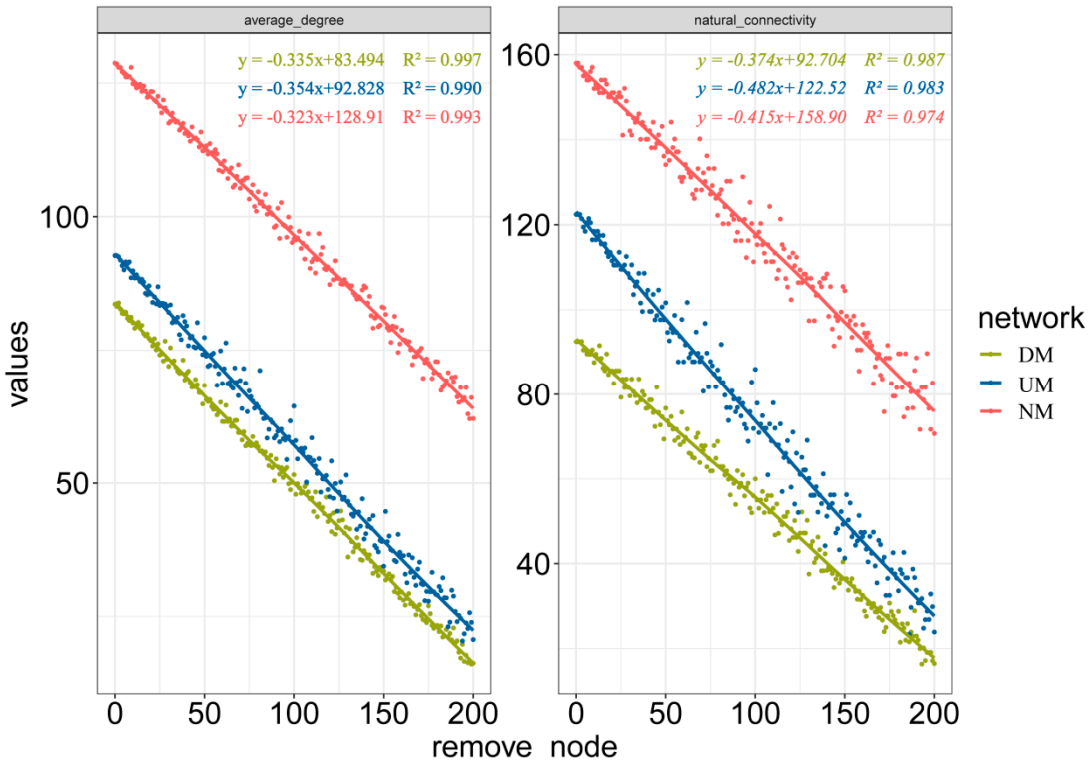
Supplementary Figure S1 | Rarefaction curve. **(a)** fungi; **(b)** bacteria



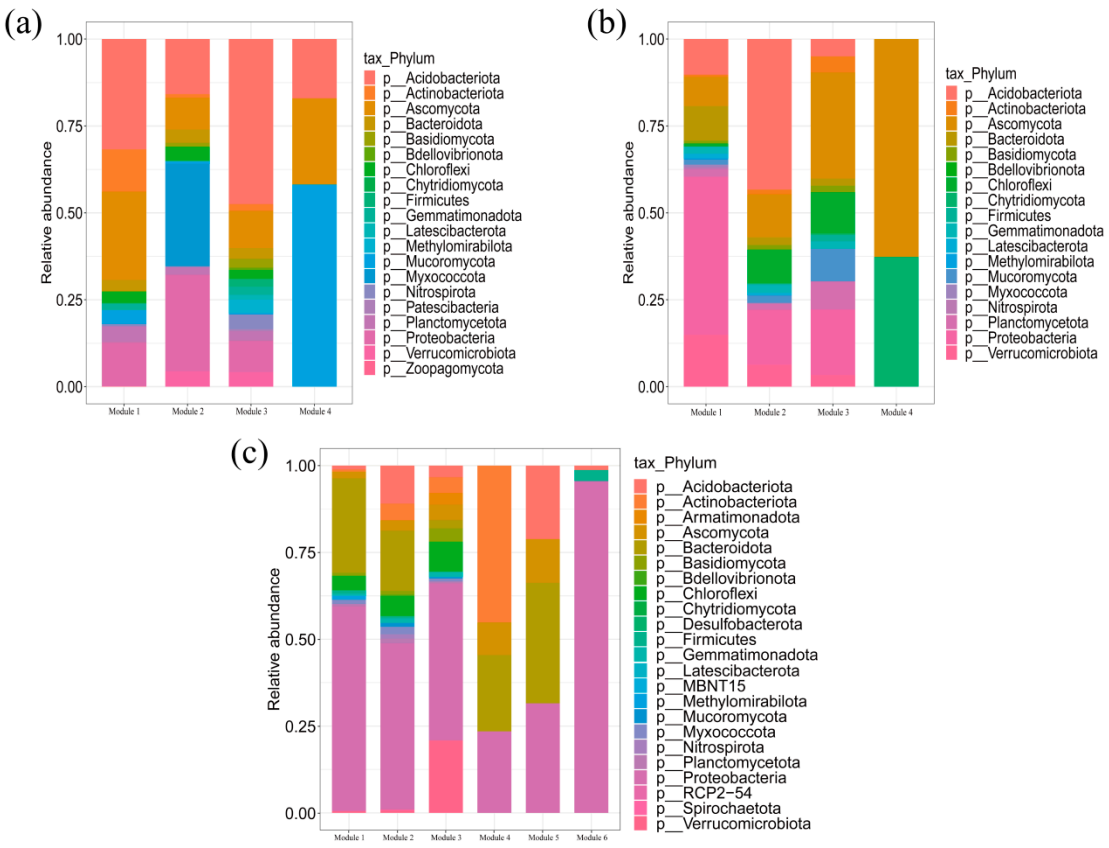
Supplementary Figure S2 | Differences in relative abundances at the phylum and genus levels among different soil types. **(a)** Differences in relative abundances at the fungal phylum level. **(b)** Differences in relative abundances at the fungal genus level. **(c)** Differences in relative abundances at the bacterial phylum level. **(d)** Differences in relative abundances at the bacterial genus level. Different lowercase letters within the same column indicate statistically significant differences among groups(P value<0.05)



Supplementary Figure S3 | Alpha diversity of three soil samples. **(a)** ACE index. alpha Diversity of fungal community; **(b)** Shannon index. alpha Diversity of fungal community; **(c)** ACE index. alpha Diversity of bacterial community; **(d)** Shannon index. alpha Diversity of bacterial community.



Supplementary Figure S4 | Randomly remove 200 nodes and observe the changes in the average degree and natural connectivity of co-occurrence networks for three types of soil samples.



Supplementary Figure S5 |The module microbial composition of three soil samples at the phylum level. **(a)** showing dead mushroom soil (DM); **(b)** unfruitful soil (UM); **(c)** normal fruiting soil (NM).