

Microplastic can inhibit organic carbon mineralization by influencing soil aggregate distribution and microbial community structure in cultivated soil: evidence from a one-year pot experiment

Supporting information

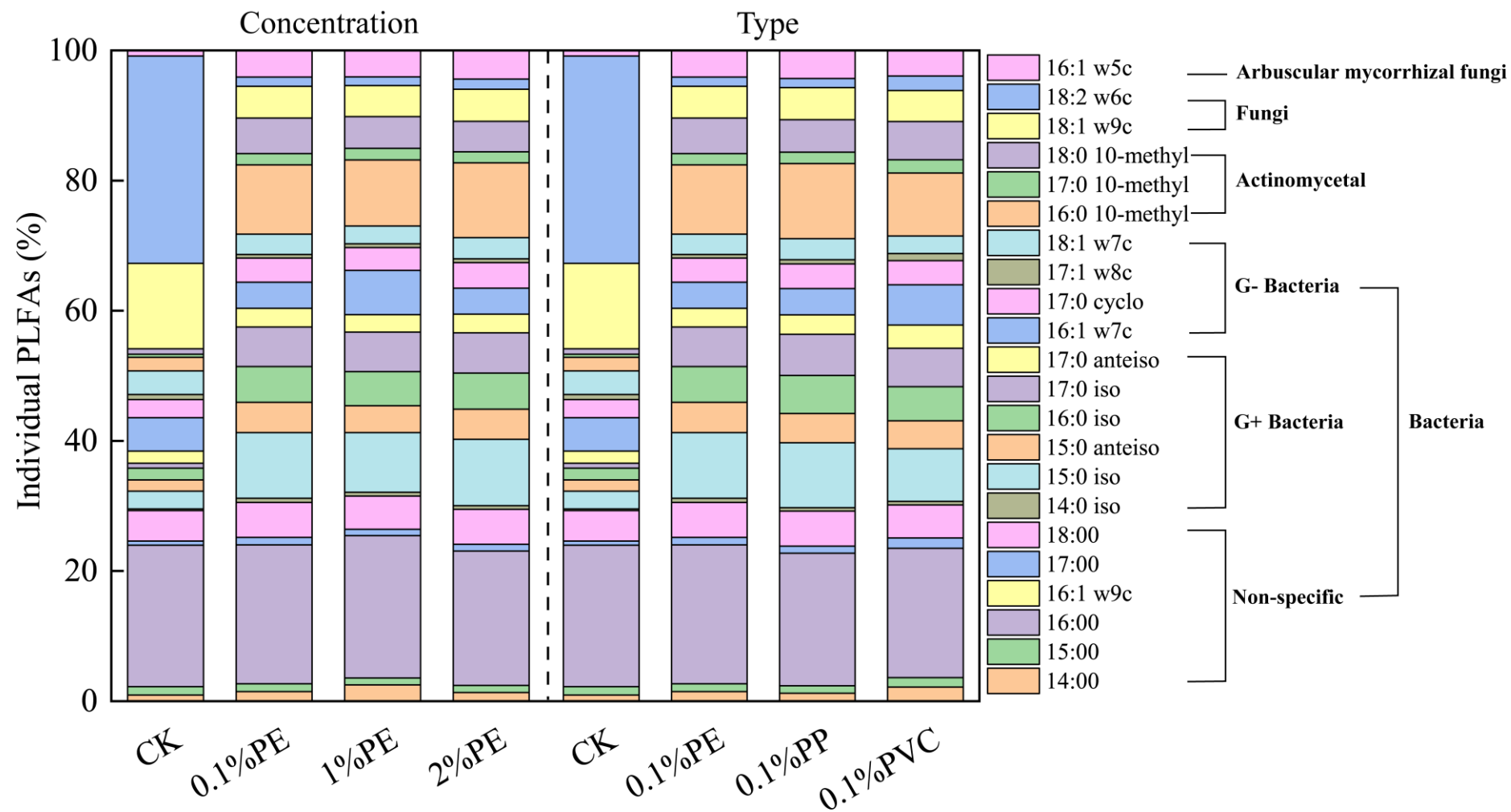


Figure S1 PLFAs for specific microbiota biomarkers in MP treatments.

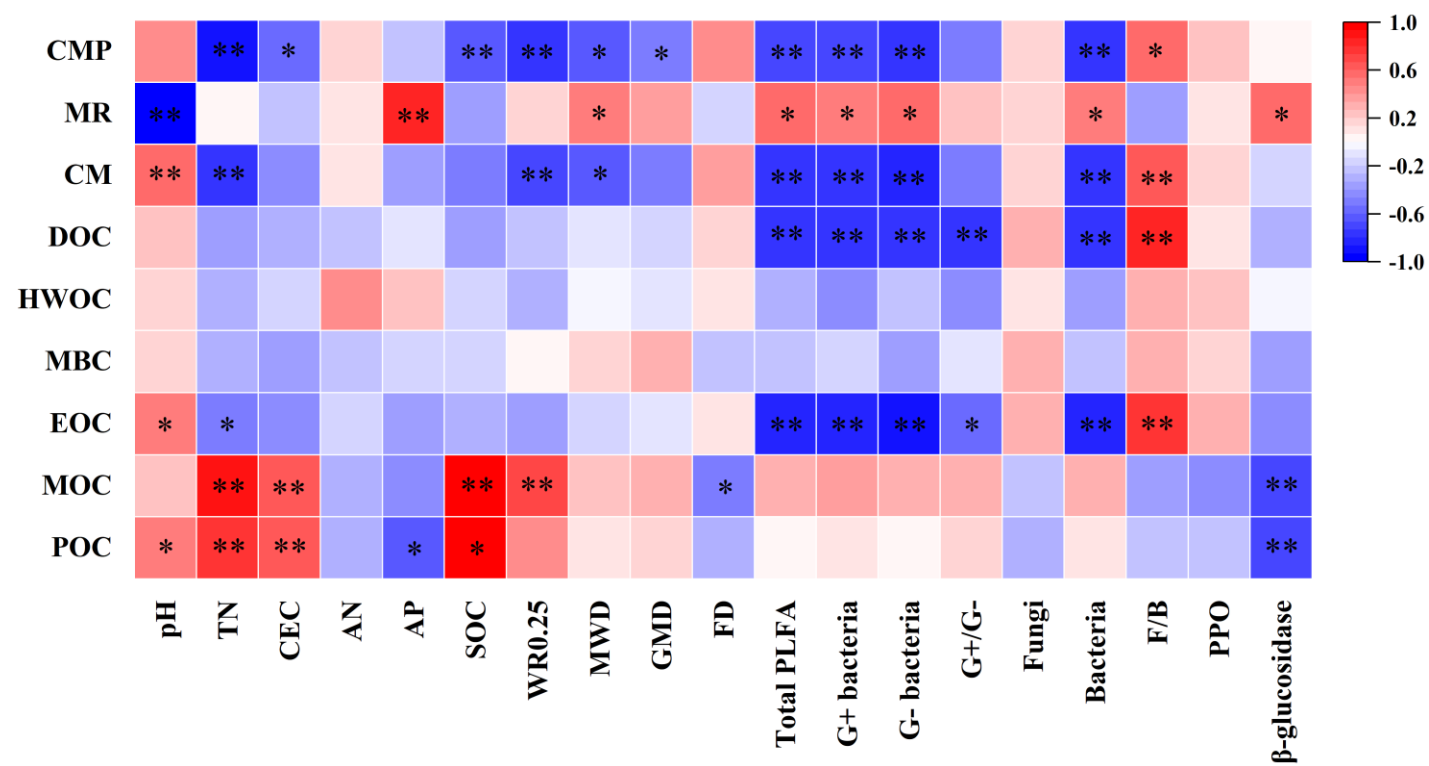


Figure S2 Correlation of organic carbon mineralization with soil physico-chemical properties in MP treatments. Note: *: p<0.05; **: p<0.01.

Table S1 Phospholipid fatty acid biomarkers used for microbial community analysis

Soil microbial groups	Phospholipid fatty acids (PLFAs)	References
Bacteria (B)	14:0, 15:0, 16:0, 17:0, 18:0, 16:1 ω 9c, i14:0, i15:0, a15:0, i16:0, i17:0, a17:0, 16:1 ω 7c, 17:1 ω 8c, cy17:0 and 18:1 ω 7c	[63, 64]
Gram-positive bacteria (G+)	i14:0, i15:0, a15:0, i16:0, i17:0 and a17:0	[63, 64]
Gram-negative bacteria (G-)	16:1 ω 7c, 17:1 ω 8c, cy17:0 and 18:1 ω 7c	[63]
Actinomycetes (A)	10Me16:0, 10Me17:0 and 10Me18:0	[65]
Fungi (F)	18:1 ω 9c and 18:2 ω 6c	[63]
Arbuscular mycorrhizal fungi (AMF)	16:1 ω 5c	[66]

References

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