

Supporting Information for:

Effects of ozone stress on rhizosphere soil of poplar seedlings

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Table S1. Measured soil enzymes and corresponding substrates.

Types of enzymes	EC numbers	Shorthands	Substrates
Alkaline phosphatase	EC 3.1.3.1	AKP	4-MUB-phosphate
β -1, 4-glucosidase	EC3.2.1.21	β G	4-MUB- β -d-glucoside
Cellobiohydrolase	EC3.2.1.91	CBH	4-MUB- β -d-cellobioside
β -N-acetylglucosaminidas e	EC3.2.1.14	NAG	4-MUB-N-acetyl- β -d-glucosaminide
Leucyl aminopeptidase	EC 3.4.11.1	LAP	l-Leucine-7-amido-4-methylcoumarin

Table S2. Correlation between soil enzyme activities and soil physicochemical indices.

Enzymes	SOM	TN	TP	TK	AN	AP	AK	pH
AKP	-0.455	0.063	0.098	-0.434	0.14	-0.179	-0.514	-0.042
β G	-0.098	0.028	-0.336	-0.091	0.298	0.214	0.264	0.14
CBH	0.203	0.035	0.112	-0.175	0.172	-0.224	0.06	0.021
LAP	-0.091	-0.084	-0.357	-0.056	0.039	0.007	0.014	— 0.594*
NAG	0.699*	0.343	0.238	-0.406	0.467	-0.147	0.313	0.308

* $P < 0.05$.

Table S3. Mental analysis of the relationship between microbial community composition and soil indices.

Treatment	r^a	p^a	r^b	p^b
SOM	0.0309	0.38	-0.1775	0.857
TN	0.207	0.167	-0.145	0.842
TP	-0.151	0.673	0.003	0.427
TK	-0.005	0.448	-0.209	0.952
AN	0.085	0.326	-0.123	0.781
AP	0.177	0.079	0.015	0.358
AK	0.35	0.135	-0.22	0.947
pH	-0.624	0.583	-0.092	0.766
AKP	-0.182	0.827	0	0.457
β G	-0.02	0.459	-0.101	0.743
LAP	0.355	0.077	-0.243	0.972
NAG	-0.129	0.56	-0.089	0.656

r: The correlation coefficient of the Mental test. ^abacteria, ^bfungi.