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Supplementary material

Post-wildfire soil and plant foliar nutrient ratios and soil fungi : bacterial ratios in alpine meadows on the southeastern Qinghai-Tibet Plateau

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Table S1. Soil moisture, pH and available nutrients (*n* = 5 for each vegetation community) in unburned and burned sites

Data are the mean ± standard error. *$P < 0.05$ compared with unburned sites. V, vegetation community; F, wildfire; AN, available N; AP, available P; AK, available K

	Soil moisture	pH	AN (mg kg^{-1})	AP (mg kg^{-1})	AK (mg kg^{-1})
Caragana erinacea					
Unburned	20.81 ± 1.50	6.55 ± 0.05	352.71 ± 5.14	2.84 ± 0.18	273.91 ± 14.94
Burned	16.57 ± 1.19*	6.55 ± 0.06	284.58 ± 5.57*	2.24 ± 0.03*	130.21 ± 8.51*
Deyeuxia scabrescens					
Unburned	19.43 ± 1.02	6.71 ± 0.01	266.90 ± 12.58	2.29 ± 0.10	255.68 ± 10.57
Burned	15.54 ± 2.23*	6.75 ± 0.02	199.55 ± 2.42*	1.93 ± 0.11*	170.14 ± 10.25*
Festuca ovina					
Unburned	18.37 ± 1.11	6.36 ± 0.01	338.57 ± 2.73	2.66 ± 0.17	246.91 ± 10.94
Burned	14.86 ± 1.59*	6.35 ± 0.03	298.33 ± 2.47*	1.97 ± 0.05*	171.21 ± 9.06*
P-values					
V	0.001	0.002	0.000	0.000	0.000
F	0.000	0.467	0.000	0.000	0.000
V × F	0.278	0.236	0.000	0.000	0.000

Table S2. Soil phospholipid fatty acids and fungi : bacterial ratios (*n* = 5 for each vegetation community) in unburned and burned sites

Data are the mean ± standard error. *$P < 0.05$ compared with unburned sites. FP, fungal phospholipid fatty acids; BP, bacterial phospholipid fatty acids

	FP (nmol g^{-1})	BP (nmol g^{-1})	F : B ratio
Caragana erinacea			
Unburned	1.56 ± 0.07	11.29 ± 0.87	0.139± 0.005
Burned	1.68 ± 0.05	10.80 ± 0.42	0.155± 0.003*
Deyeuxia scabrescens			
Unburned	1.55 ± 0.11	10.20 ± 0.52	0.151± 0.005
Burned	1.56 ± 0.06	8.43 ± 0.51*	0.183± 0.008*
Festuca ovina			
Unburned	1.38 ± 0.08	9.95 ± 0.41	0.139± 0.002
Burned	1.43 ± 0.07	8.16 ± 0.44*	0.175± 0.006*
P-values			
V	0.024	<0.001	0.034
F	0.360	<0.001	0.002
V × F	0.695	0.005	0.367

Table S3. Correlation coefficients for soil phospholipid fatty acids and fungi : bacterial (F : B) ratios with soil properties and nutrient ratios in alpine meadows (*n* = 30)

*Correlation significant at the 0.05 level; **correlation significant at the 0.01 level. FP, fungal phospholipid fatty acids; BP, bacterial phospholipid fatty acids; AN, available N; AP, available P; AK, available K

	Soil moisture	pH	AN	AP	AK	C	N	P	K	C : N	C : P	N : P	N : K
FP	0.149	0.156	–0.140	0.008	–0.031	0.251	0.039	–0.150	–0.415*	0.617**	0.283	0.066	0.322
BP	0.681**	0.068	0.541**	0.681**	0.710**	0.828**	0.818**	0.066	–0.319	–0.133	0.472*	0.820**	0.845**
F : B ratio	–0.490*	0.229	–0.596**	–0.613**	–0.671**	–0.539**	–0.699**	–0.162	–0.081	0.626**	0.512*	–0.682**	–0.488*