

Table S5. Best multivariate models for community composition of soil biota.

FINLAND					ESTONIA				
variables	R2	R2adj,cumul	F-value	P-value	variables	R2	R2adj,cumul	F-value	P-value
1 Fungi community									
PCNM1	0.172	0.151	8.09	<0.001	Soil C/N ratio	0.168	0.144	7.08	<0.001
B. pendula BA	0.051	0.182	2.50	0.001	Soil Ca concentration	0.086	0.210	3.90	0.001
Soil Mg concentration	0.049	0.213	2.49	0.001	T. cordata BA	0.051	0.242	2.42	0.001
1.1 EcM fungi community									
PCNM1	0.100	0.076	4.31	0.001	Ericoid cover	0.135	0.110	5.44	<0.001
B. pendula BA	0.093	0.150	4.37	0.001	Soil Ca concentration	0.065	0.153	2.77	0.001
Tree BA	0.051	0.182	2.49	0.001	T. cordata BA	0.053	0.185	2.33	0.001
P. abies BA	0.053	0.218	2.69	0.001					
1.2 Mycoparasite community									
Soil Mg concentration	0.102	0.079	4.44	0.001	Soil N concentration	0.079	0.053	3.01	0.003
PCNM5	0.050	0.107	2.24	0.014	Soil Ca concentration	0.062	0.091	2.47	0.009
					Soil pH(KCl)	0.062	0.131	2.56	0.014
					PCNM17	0.069	0.181	3.04	0.007
1.3 Plant pathogen community									
PCNM1	0.095	0.072	4.10	0.001	Soil N concentration	0.133	0.108	5.37	<0.001
L. sibirica BA	0.045	0.094	1.97	0.001	Soil Ca concentration	0.089	0.176	3.87	0.001
1.4 Saprotroph community									
PCNM1	0.227	0.207	11.47	<0.001	Soil C/N ratio	0.204	0.181	8.96	<0.001
Soil Mg concentration	0.051	0.240	2.68	0.001	Soil N concentration	0.088	0.250	4.20	0.001
					Soil pH(KCl)	0.079	0.313	4.12	0.001
2. Cercozoa community									
Soil pH(KCl)	0.079	0.055	3.33	0.001	Soil pH(KCl)	0.122	0.097	4.88	0.001
					Ericoid cover	0.062	0.137	2.60	0.001
3 Chlorophyta community									
PCNM1	0.093	0.070	4.01	0.001	Herb cover	0.076	0.048	2.71	0.001

4 Ciliophora community

Soil Ca concentration	0.167	0.146	7.83	<0.001	Ericoid cover	0.126	0.101	5.05	<0.001
Soil pH(KCl)	0.051	0.178	2.50	0.002	Soil pH(KCl)	0.055	0.133	2.29	0.001
PCNM5	0.049	0.209	2.49	0.005					
PCNM6	0.049	0.241	2.56	0.001					

5 Collembola community

PCNM1	0.075	0.051	3.15	0.003	Soil pH(KCl)	0.085	0.059	3.27	0.001
PCNM5	0.058	0.087	2.38	0.014	Ericoid cover	0.079	0.104	2.75	0.001

6 Nematoda community

Soil P concentration	0.064	0.040	2.66	0.005	Soil N concentration	0.120	0.095	4.78	0.001
					Soil pH(KCl)	0.067	0.140	2.81	0.001
					P. tremula BA	0.063	0.182	2.78	0.001
					T. cordata BA	0.056	0.220	2.59	0.001