

Supplementary Table S1 *The Spearman correlation coefficients for basal respiration and soil nutrient content*

	BR	P₂O₅	K₂O	NH₄	NO₃	Ntot	Ctot
BR	1	0.91	0.86	0.78	0.03	0.31	0.23
P₂O₅	0.91	1	0.85	0.75	0.02	0.23	0.13
K₂O	0.86	0.85	1	0.81	0.23	0.33	0.37
NH₄	0.78	0.75	0.81	1	0.3	0.36	0.38
NO₃	0.03	0.02	0.23	0.30	1	0.64	0.67
Ntot	0.31	0.23	0.33	0.36	0.64	1	0.9
Ctot	0.23	0.13	0.37	0.38	0.37	0.9	1

Supplementary Fig. S1 Pairwise comparison of OTUs with significant changes in abundance (according DeSEQ2, $p_{adj} < 0.05$) between sample groups - order level (Log2FoldChange - estimated size effect for current OTUs, Order - taxonomic order for current OTUs).

