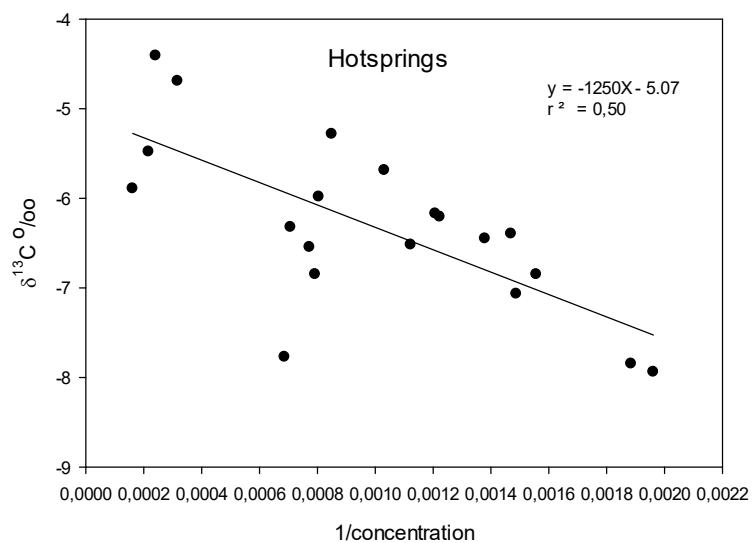


Supplementary data for Abiotic CO₂ sources confound interpretation of temperature responses of *in situ* respiration in geothermally warmed forest soils of Iceland by Marja Maljanen, Heli Yli-Moijala, Bjarni D. Sigurdsson, Christina Biasi

Supplement Table S1. Measured CO₂ concentrations and $\delta^{13}\text{C}$ values of CO₂ from hot spring vents nearby the study site. The distance from the study site shown in the table.

Sample	CO ₂ (ppm)	$\delta^{13}\text{C}$ (‰)	1/conc
Reykir-drillhole for hot water 400 m SSW	891	-6.52	0.00112
Reykir-drillhole for hot water 400 m SSW	1177	-5.28	0.00085
Reykir-drillhole for hot water 400 m SSW	1242	-5.98	0.00080
Hotspring vent 130 m SE to forest	6188	-5.89	0.00016
Hotspring vent 130 m SE to forest	1413	-6.32	0.00071
Hotspring Hrifla 120 m S of forest	1456	-7.77	0.00069
Hotspring Hrifla 120 m S of forest	1262	-6.85	0.00079
Hotspring Hrifla 120 m S of forest	1295	-6.54	0.00077
Hotspring 60 m NW of forest	672	-7.07	0.00149
Hotspring 60 m NW of forest	510	-7.94	0.00196
Hotspring 60 m NW of forest	531	-7.85	0.00188
Hotspring 510 m N of forest	725	-6.45	0.00138
Hotspring 510 m N of forest	818	-6.20	0.00122
Hotspring 510 m N of forest	680	-6.39	0.00147
Hotspring 540 m N of forest	828	-6.17	0.00121
Hotspring 540 m N of forest	642	-6.85	0.00156
Hotspring 540 m N of forest	970	-5.69	0.00103
Hotspring 510 m NNW of forest	4619	-5.48	0.00022
Hotspring 510 m NNW of forest	4145	-4.41	0.00024
Hotspring 510 m NNW of forest	3153	-4.69	0.00032



Supplement Fig. 1. The $\delta^{13}\text{C}$ values of geothermal source (hot spring vents, from Supplement Table 1) plotted with $1/\text{CO}_2$ concentration. The intercept (5.07) shows the source value for geothermal CO_2 .

Supplement Table S2. C and N content (%) in grass tissue (*Agrostis stolonifera*) sampled in June 2016. Grassland near FN+0 plot is a grassland about 10 m from the forest edge and plot FN+40 out is about 10 m away from the plot FN+40. Soil T is the soil temperature at depth of 10 cm during sampling.

Plot	Soil T (°C)	C%	N%
Grassland near FN+0	11.0	35.8	1.98
FN+0	10.2	37.2	2.60
FN+10	18.9	36.2	1.92
FN+20	54.5	39.9	1.60
Between FN+20 and FN+40	64.9	40.3	1.17
FN+40	75.0	41.0	2.10
Downhill from FN+40	39.6	40.6	2.39