Supplementary Figures

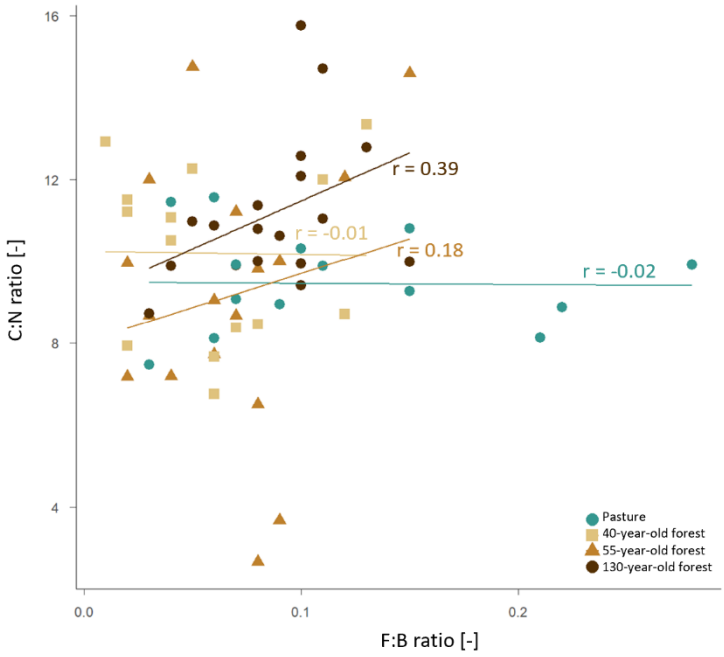

Figure S1.Pearson correlation between the Fungi:Bacteria (F:B) ratio and the C:N ratio of pasture and different forest stand ages. Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

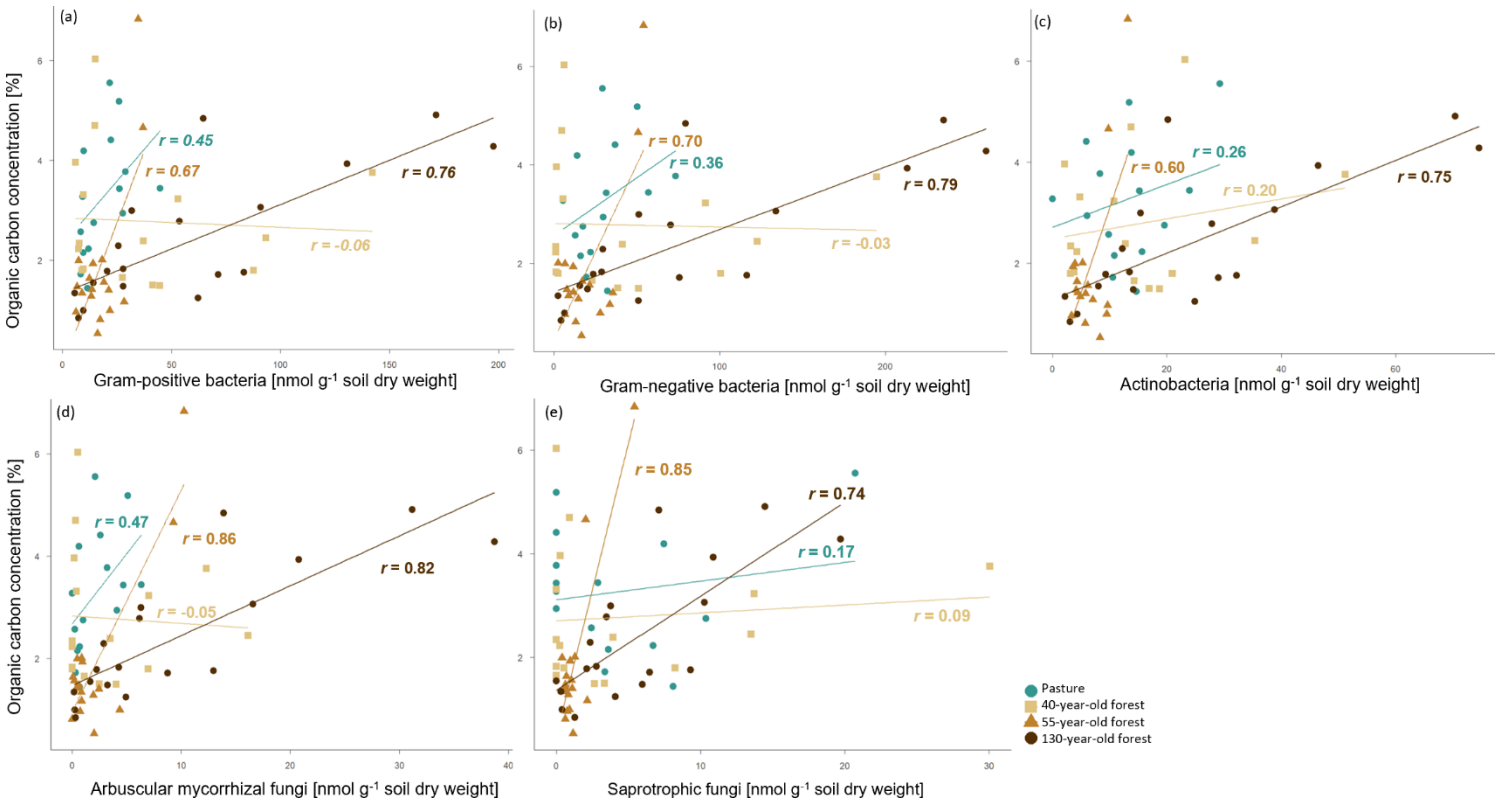

Figure S2. Pearson correlation between soil organic carbon concentration [%] and individual phospholipid fatty acid compounds of the pasture and the different forest stand ages; (a) Gram$^+$ bacteria, (b) Gram$^-$ bacteria, (c) actinobacteria, (d) arbuscular mycorrhizal fungi, and (e) saprotrophic fungi. Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

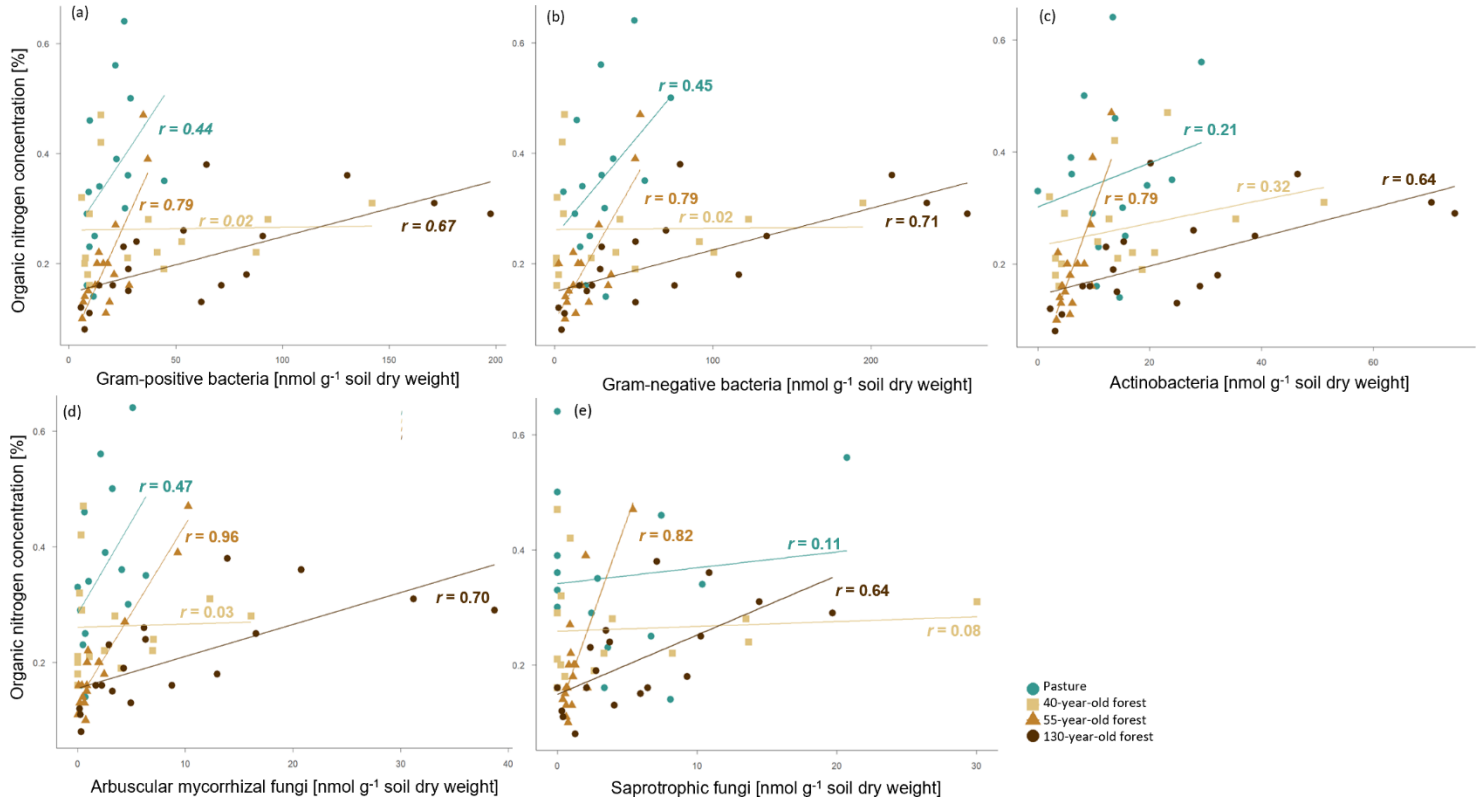

Figure S3. Pearson correlation between the soil organic nitrogen concentration [%] and individual phospholipid fatty acid compounds of the pasture and the different forest stand ages: (a) Gram⁺ bacteria, (b) Gram⁻ bacteria, (c) actinobacteria, (d) arbuscular mycorrhizal fungi, and (e) saprotrophic fungi. Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

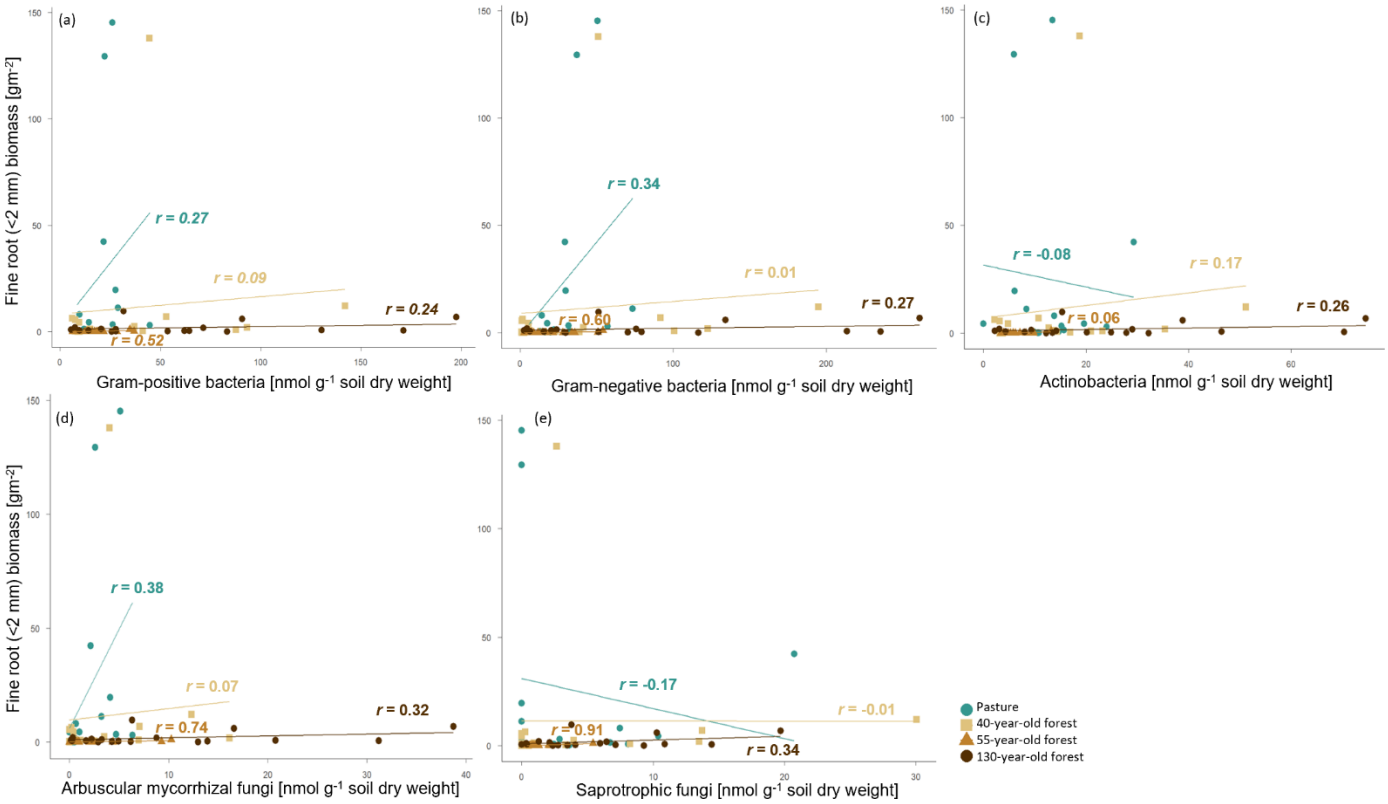

Figure S4. Pearson correlation between fine root biomass (<2 mm) and individual phospholipid fatty acid compounds of the pasture and the c forest stand ages: (a) Gram+ bacteria, (b) Gram- bacteria, (c) actinobacteria, (d) arbuscular mycorrhizal fungi, and (e) saprotrophic fungi. Indivi sampling points represent mineral soil samples of 5 to 45 cm soil depth.

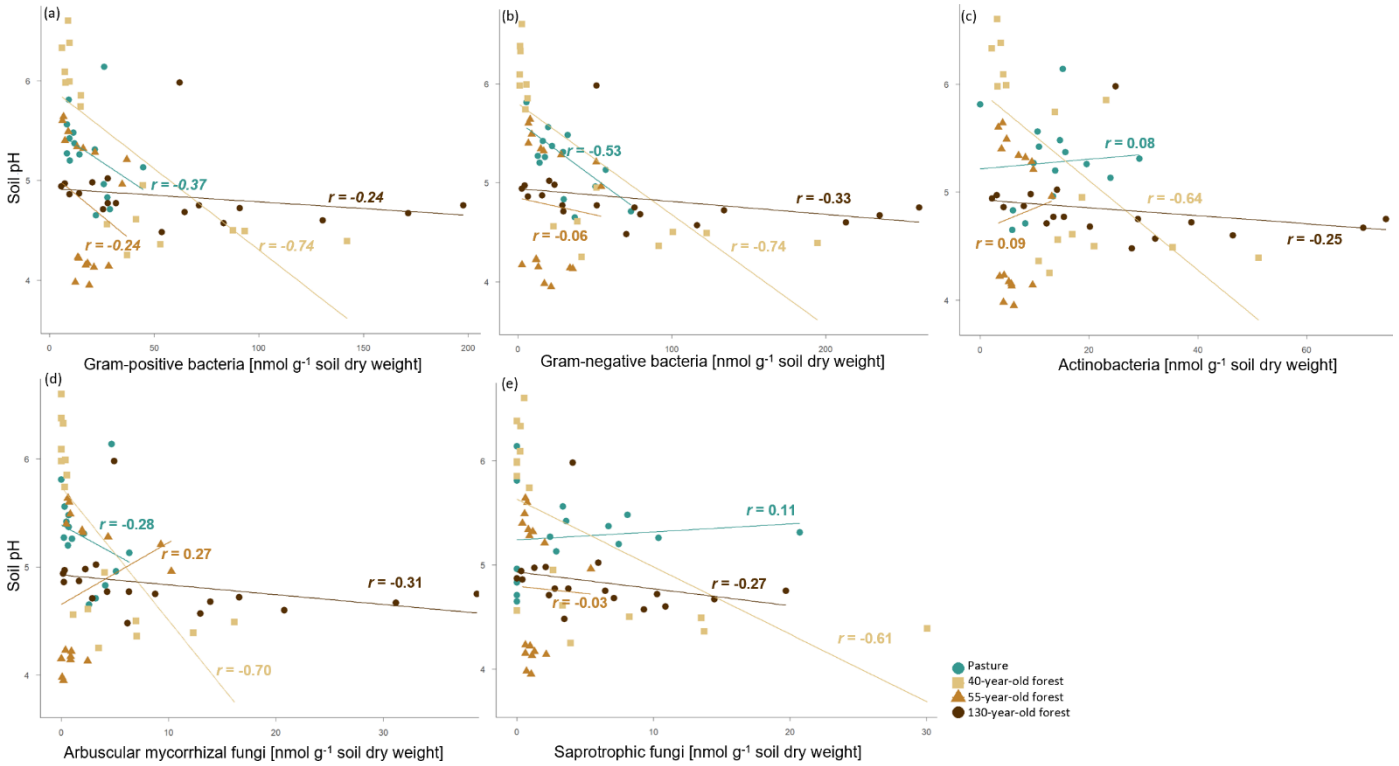

Figure S5. Pearson correlation between Soil pH and individual phospholipid fatty acid compounds of the pasture and the different forest stand ages: (a) Gram+ bacteria, (b) Gram- bacteria, (c) actinobacteria, (d) arbuscular mycorrhizal fungi, and (e) saprotrophic fungi. Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

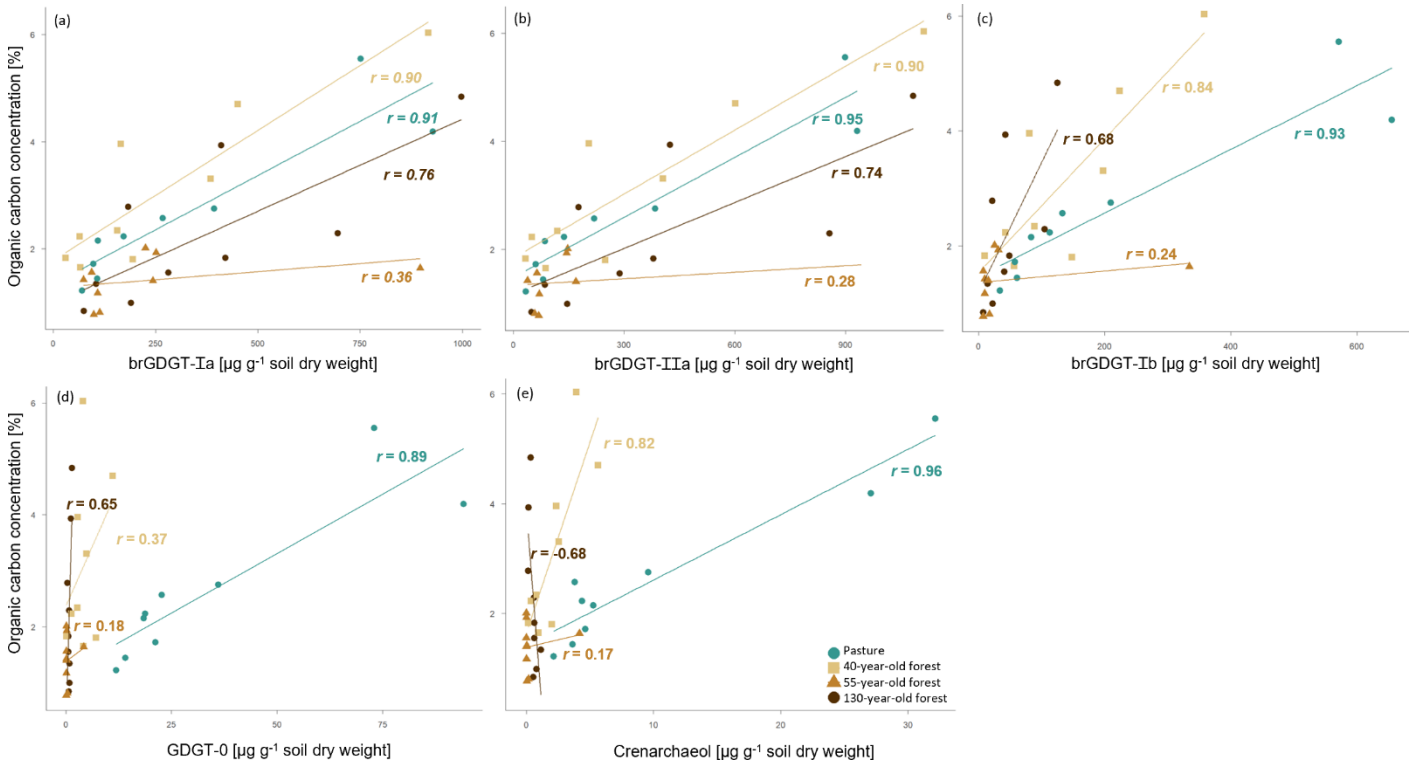

Figure S6. Pearson correlation between the soil organic carbon concentration [%] and the main individual branched glycerol dialkyl glycerol tetraethers (brGDGTs) of the pasture and the different forest stand ages: (a) brGDGT-Ia, (b) brGDGT-IIa, and (c) br-GDGT-Ib and the main individual isoprenoid glycerol dialkyl glycerol tetraethers (isoGDGTs) GDGT-0 (d) and Crenarchaeol (e). Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

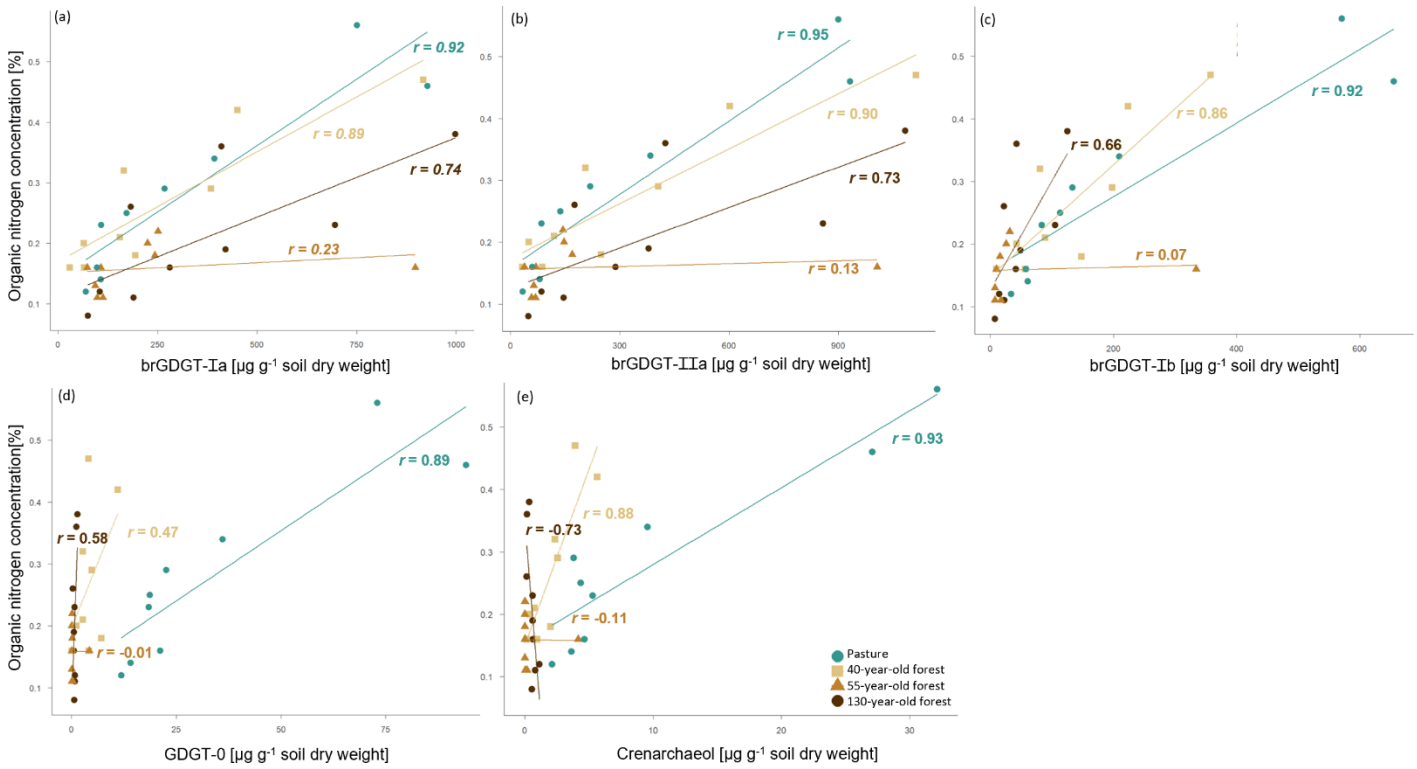

Figure S7. Pearson correlation between the soil organic nitrogen concentration [%] and the main individual branched glycerol dialkyl glycerol tetraethers (brGDGTs) of the pasture and the different forest stand ages: (a) brGDGT-Ia, (b) brGDGT-IIa, and (c) br-GDGT-Ib and the main individual isoprenoid glycerol dialkyl glycerol tetraethers (isoGDGTs) GDGT-0 (d) and Crenarchaeol (e). Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

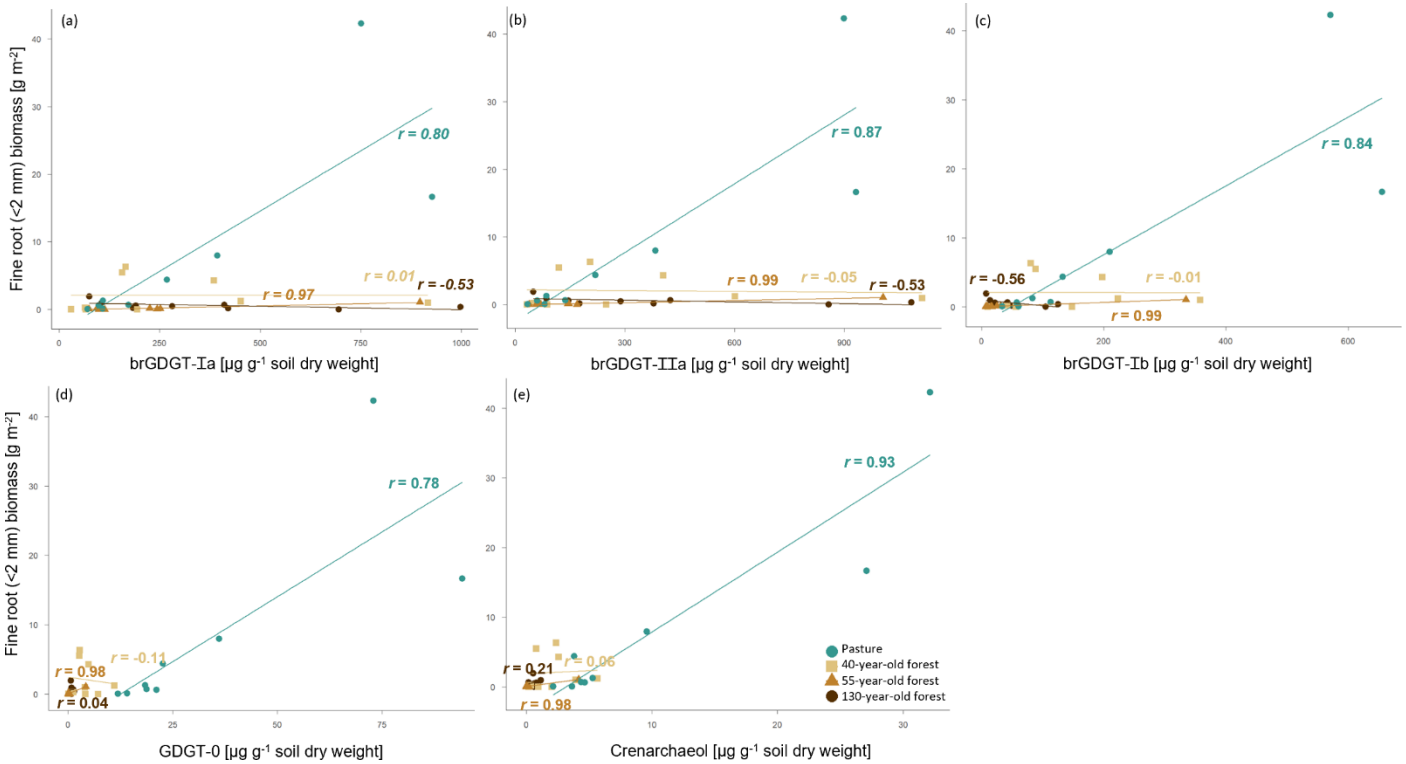

Figure S8. Pearson correlation between the fine root biomass [g m^{-2}] and the main individual branched glycerol dialkyl glycerol tetraethers (brGDGTs) of the pasture and the different forest stand ages: (a) brGDGT-Ia, (b) brGDGT-IIa, and (c) br-GDGT-Ib and the main individual isoprenoid glycerol dialkyl glycerol tetraethers (isoGDGTs) GDGT-0 (d) and Crenarchaeol (e). Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

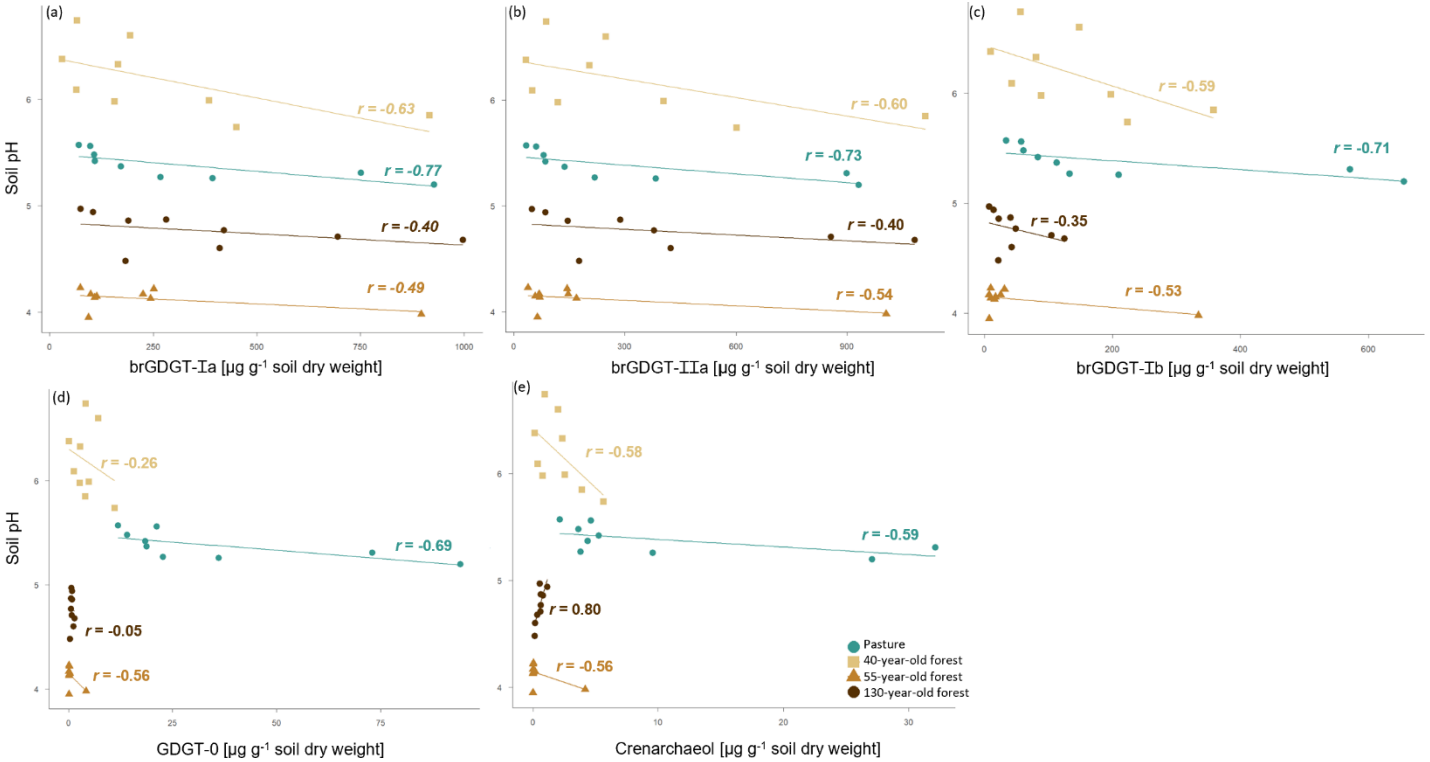

Figure S9. Pearson correlation between soil pH and the main individual branched glycerol dialkyl glycerol tetraethers (brGDGTs) of the pasture and the different forest stand ages: (a) brGDGT-Ia, (b) brGDGT-IIa, and (c) br-GDGT-Ib and the main individual isoprenoid glycerol dialkyl glycerol tetraethers (isoGDGTs) GDGT-0 (d) and Crenarchaeol (e). Individual sampling points represent mineral soil samples of 5 to 45 cm soil depth.

Supplementary Tables

Table S1. Soil pH, organic carbon and nitrogen concentration as well as the C:N ratio of pasture (n= 5) and different forest stand ages (n = 3) with increasing soil depth (0 – 45 cm).

	Pasture			
Soil depth	**Soil pH**	**carbon [%]**	**nitrogen [%]**	**C:N [-]**
0-5cm	5.14±0.18	5.18±0.13	0.46±0.05	11.9±1.3
5-10cm	4.96±0.25	4.07±0.09	0.41±0.03	10.1±0.9
10-15cm	5.05±0.22	2.78±0.11	0.30±0.02	9.3±0.5
15-20cm	4.96±0.31	2.51±0.45	0.27±0.03	9.0±1.3
20-25cm	5.25±0.12	2.19±0.30	0.23±0.03	9.8±0.6
25-30cm	5.62±0.19	2.08±0.30	0.22±0.03	9.5±0.3
30-35cm	5.81±0.33	1.85±0.38	0.18±0.05	10.4±0.8
35-40cm	5.56	1.44±0.16	0.15±0.02	10.1±0.6
40-45cm	5.57	1.26±0.16	0.13±0.02	10.7±0.9
	40-year-old forest			
Soil depth	**Soil pH**	**carbon [%]**	**nitrogen [%]**	**C:N [-]**
0-5cm	5.12±0.73	4.88±0.53	0.38±0.04	12.9±0.5
5-10cm	5.05±0.69	4.01±0.35	0.30±0.05	13.7±1.6
10-15cm	5.29±1.04	3.19±0.37	0.30±0.01	10.7±1.1
15-20cm	5.24±0.75	2.68±0.26	0.26±0.02	10.3±0.8
20-25cm	5.24±0.74	2.05±0.13	0.20±0.01	10.2±0.9
25-30cm	5.35±0.74	2.14±0.28	0.23±0.01	9.4±1.3
30-35cm	5.47±0.91	1.82±0.08	0.19±0.01	9.5±0.9
35-40cm	5.78±0.83	1.64±0.09	0.19±0.00	8.8±1.2
40-45cm	5.87±0.87	1.48±0.10	0.17±0.01	8.9±1.6
	55-year-old forest			
Soil depth	**Soil pH**	**carbon [%]**	**nitrogen [%]**	**C:N [-]**
0-5cm	4.47±0.49	4.03±1.24	0.29±0.07	13.1±1.4
5-10cm	4.58±0.63	4.04±1.06	0.25±0.06	16.6±4.6
10-15cm	4.71±0.57	1.58±0.40	0.23±0.03	6.8±1.7
15-20cm	4.73±0.59	1.17±0.26	0.19±0.00	6.3±1.8
20-25cm	4.76±0.58	1.64±0.21	0.20±0.00	8.2±1.8
25-30cm	4.81±0.59	1.68±0.23	0.17±0.02	10.1±2.1
30-35cm	4.86±0.63	1.23±0.12	0.14±0.01	8.5±0.4
35-40cm	4.88±0.73	0.89±0.04	0.11±0.00	8.2±0.7
40-45cm	4.91±0.74	1.10±0.17	0.12±0.01	8.8±1.3
	130-year-old forest			
Soil depth	**Soil pH**	**carbon [%]**	**nitrogen [%]**	**C:N [-]**
0-5cm	4.47±0.49	4.83±0.41	0.34±0.01	14.3±1.8
5-10cm	4.58±0.63	4.69±0.17	0.35±0.02	13.6±0.6
10-15cm	4.71±0.57	2.92±0.06	0.26±0.01	11.4±0.6
15-20cm	4.73±0.59	2.59±0.19	0.23±0.01	11.1±0.6
20-25cm	4.76±0.58	1.81±0.02	0.19±0.01	9.6±0.2
25-30cm	4.81±0.59	1.86±0.19	0.17±0.01	10.9±0.7
30-35cm	4.86±0.63	1.46±0.20	0.15±0.01	9.9±0.8
35-40cm	4.88±0.73	1.42±0.03	0.14±0.01	10.1±0.5
40-45cm	4.91±0.74	1.04±0.12	0.10±0.01	10.5±0.6

Table S2. Individual phospholipid fatty acid compounds [nmol g^{-1} dry weight] of pasture (n = 2) and forest stand ages (n = 2) in relation to soil depth (0 – 45 cm). (n.a. = not available).

	Pasture				
Soil depth	**Gram$^+$ bacteria**	**Gram$^-$ bacteria**	**Actinobacteria**	**Saprotrophic fungi**	**Arbuscular mycorrhizal fungi**
0-5cm	23.87±2.15	39.98±10.55	21.37±7.94	11.65±9.08	3.62±1.49
5-10cm	18.24±10.68	45.00±28.45	9.37±1.03	1.52	2.11±1.12
10-15cm	18.75±8.97	21.96±7.80	9.95±3.87	4.45±3.02	2.38±1.73
15-20cm	18.31±3.93	27.34±9.67	12.77±6.84	5.86±4.52	1.80±0.79
20-25cm	26.61±18.15	35.09±22.08	16.91±7.09	2.67±0.22	3.30±3.05
25-30cm	10.63±1.35	13.98±8.34	7.83	6.73	0.35
30-35cm	17.90±8.34	23.99±7.73	13.02±2.18	2.32±1.29	2.61±2.10
35-40cm	11.50	32.32	14.68	8.11	0.70
40-45cm	8.40	19.81	10.56	3.37	0.34
	40-year-old forest				
Soil depth	**Gram$^+$ bacteria**	**Gram$^-$ bacteria**	**Actinobacteria**	**Saprotrophic fungi**	**Arbuscular mycorrhizal fungi**
0-5cm	78.57±63.52	100.53±94.25	37.19±14.00	15.03	6.42±5.89
5-10cm	33.93±19.00	48.28±43.35	12.26±1.49	7.32±6.39	3.69±3.37
10-15cm	21.58±15.57	21.61±19.83	7.44±5.30	3.11±0.83	1.84±1.66
15-20cm	51.46±41.86	64.10±58.55	20.11±15.30	7.30±6.20	8.27±7.87
20-25cm	47.67±40.01	50.93±49.77	12.07±8.89	4.14±4.01	6.98
25-30cm	41.34	38.70	16.94	3.36	2.51
30-35cm	17.47±10.11	12.18±11.05	9.30±5.01	0.24	1.11
35-40cm	9.64	1.36	3.79	0.15	n.a.
40-45cm	26.72±17.87	26.82±24.23	10.94±7.78	1.60±1.06	4.04
	55-year-old forest				
Soil depth	**Gram$^+$ bacteria**	**Gram$^-$ bacteria**	**Actinobacteria**	**Saprotrophic fungi**	**Arbuscular mycorrhizal fungi**
0-5cm	23.53±11.23	35.62±18.51	8.74±4.44	3.07±2.36	5.17±5.10
5-10cm	27.96±8.98	36.24±14.62	7.98±1.80	1.54±0.50	4.74±4.54
10-15cm	25.00±3.27	30.90±2.92	9.56±0.08	1.53±0.62	2.62±1.76
15-20cm	18.62±2.56	26.16±9.51	7.05±1.27	1.14±0.03	2.24±0.24
20-25cm	15.69±2.50	8.74±6.05	6.17±0.92	1.06±0.23	1.41±0.54
25-30cm	10.65±3.31	9.26±2.45	3.75±0.17	0.68±0.28	0.71±0.24
30-35cm	11.25±2.28	10.40±1.47	4.62±0.24	0.59±0.03	0.63±0.23
35-40cm	11.73±5.55	9.99±3.31	4.55±1.20	0.69±0.07	0.73
40-45cm	6.74	7.84	4.15	0.63	0.62
	130-year-old forest				
Soil depth	**Gram$^+$ bacteria**	**Gram$^-$ bacteria**	**Actinobacteria**	**Saprotrophic fungi**	**Arbuscular mycorrhizal fungi**
0-5cm	150.88±20.38	224.28±10.96	58.43±11.96	12.67±1.79	25.98±5.21
5-10cm	131.07±66.54	170.14±90.70	47.38±27.20	13.42±6.29	26.32±12.41
10-15cm	42.72±11.00	60.89±9.60	21.63±6.25	3.63±0.15	6.25±0.06
15-20cm	58.25±32.56	81.93±52.19	25.55±13.31	6.33±3.96	9.74±6.84
20-25cm	55.55±27.70	72.75±43.75	22.84±9.37	6.04±3.26	8.63±4.35
25-30cm	42.81±28.63	45.83±30.09	18.54±10.50	3.24±3.24	5.23±3.55
30-35cm	15.07±5.43	15.15±8.69	6.84±2.50	1.26±0.85	1.25±1.00
35-40cm	16.72±11.13	11.51±8.84	8.21±5.97	3.15±2.82	1.71±1.54
40-45cm	34.75±27.37	27.82±23.37	14.00±10.90	2.69±1.40	2.64±2.31

Table S3. The F:B ratio of pasture (n = 2) and different forest stand ages (n = 2) in relation to soil depth (0 – 45 cm). (n.a. = not available).

depth	Pasture	40-year-old forest	55-year-old forest	130-year-old forest
0-5cm	0.17±0.11	0.06±0.05	0.085±0.07	0.09±0.01
5-10cm	0.05±0.02	0.09±0.05	0.08±0.05	0.12±0.01
10-15cm	0.14±0.08	0.07±0.02	0.07±0.03	0.08±0.02
15-20cm	0.13±0.09	0.07±0.05	0.07±0.01	0.09±0.01
20-25cm	0.08±0.01	0.07	0.08	0.10
25-30cm	0.15	0.06	0.06±0.01	0.07±0.03
30-35cm	0.09±0.03	0.02	0.05±0.02	0.06±0.03
35-40cm	0.15	0.05±0.01	0.06±0.04	0.10±0.05
40-45cm	0.10	n.a.	0.07	0.09±0.02

Table S4 Concentrations [ng g^{-1} dry weight] of the individual branched glycerol dialkyl glycerol tetraether (brGDGTs) compounds as well as the total brGDGT concentration of the pasture and different forest stand ages in relation to soil depth (0 – 45 cm).

Pasture																
Soil depth	**Ia**	**IIa**	**IIa'**	**IIIa**	**IIIa'**	**Ib**	**IIb**	**IIb'**	**IIIb**	**IIIb'**	**Ic**	**IIc**	**IIc'**	**IIIc**	**IIIc'**	**total brGDGTs**
0-5cm	751.10	899.46	479.92	317.16	79.62	570.82	220.11	150.78	8.27	6.49	236.34	13.71	9.16	0.85	0.59	3744.38
5-10cm	927.94	932.09	435.27	322.64	109.15	655.13	261.83	123.89	9.43	6.22	231.88	13.55	10.15	0.73	0.84	4040.72
10-15cm	393.45	383.76	172.48	142.29	47.54	209.63	106.91	47.07	5.99	3.11	106.67	7.24	3.28	0.34	0.34	1630.09
15-20cm	267.63	219.20	126.37	82.61	28.32	133.24	70.09	24.58	3.17	0.68	68.45	4.80	1.58	0.47	0.30	1024.96
20-25cm	172.18	137.24	109.07	63.83	23.06	113.19	53.55	41.40	2.94	1.50	63.14	9.63	2.10	1.42	0.29	794.53
25-30cm	108.76	85.51	62.66	41.78	20.59	83.44	40.45	35.61	2.99	1.52	42.54	10.54	1.95	1.51	0.31	540.16
30-35cm	107.65	80.48	51.89	33.71	11.03	60.99	40.07	12.19	1.94	0.67	34.19	10.65	2.79	0.83	0.84	449.92
35-40cm	98.18	60.06	41.53	31.70	13.87	57.66	31.02	26.55	2.88	2.13	32.92	15.08	4.22	1.47	0.98	420.26
40-45cm	70.33	33.65	29.31	16.92	10.93	33.91	20.61	12.35	2.02	0.77	20.43	15.45	0.40	1.26	0.62	268.94
40-year-old forest																
Soil depth	**Ia**	**IIa**	**IIa'**	**IIIa**	**IIIa'**	**Ib**	**IIb**	**IIb'**	**IIIb**	**IIIb'**	**Ic**	**IIc**	**IIc'**	**IIIc**	**IIIc'**	**total brGDGTs**
0-5cm	917.17	1112.37	510.40	322.47	147.94	357.75	174.62	121.64	3.85	8.69	290.08	9.00	4.06	0.32	0.40	3980.76
5-10cm	451.21	601.55	417.19	219.48	219.48	223.44	94.33	91.54	2.07	7.79	187.21	4.80	2.96	0.42	0.19	2455.47
10-15cm	165.41	204.88	138.46	67.03	56.21	80.81	33.21	45.03	1.66	4.34	74.36	2.21	1.54	0.09	0.31	875.57
15-20cm	384.62	405.37	270.51	142.75	105.20	197.70	84.53	104.71	3.32	10.16	165.45	4.59	3.88	0.35	0.69	1883.85
20-25cm	156.26	119.03	147.08	46.54	66.09	88.69	40.15	59.98	2.90	6.85	64.57	2.16	1.91	0.25	0.39	802.85
25-30cm	64.49	50.00	73.97	36.79	36.79	42.46	17.62	35.55	1.39	4.23	27.86	1.07	1.41	0.14	0.34	381.32
30-35cm	29.58	32.10	16.44	9.65	4.30	10.05	4.84	2.86	4.30	0.21	9.10	0.23	0.15	0.00	0.00	119.59
35-40cm	193.96	248.34	248.34	152.58	86.36	147.95	89.53	176.03	6.25	26.54	100.58	5.29	7.78	0.98	1.87	1379.41
40-45cm	66.16	87.08	87.08	58.91	58.91	56.47	26.57	71.03	2.44	10.82	29.65	2.55	2.71	0.51	0.92	482.48
55-year-old forest																
Soil depth	**Ia**	**IIa**	**IIa'**	**IIIa**	**IIIa'**	**Ib**	**IIb**	**IIb'**	**IIIb**	**IIIb'**	**Ic**	**IIc**	**IIc'**	**IIIc**	**IIIc'**	**total brGDGTs**
0-5cm	897.25	1006.11	1058.13	317.69	169.60	334.36	141.04	101.85	4.81	7.14	258.98	8.12	3.60	0.26	0.31	3775.86
5-10cm	93.58	63.63	8.26	9.53	1.19	7.59	1.03	1.03	0.12	0.04	2.94	0.17	0.11	0.06	0.06	189.33
10-15cm	108.05	69.75	9.34	12.95	0.95	10.00	1.11	0.85	0.05	0.00	4.43	0.23	0.19	0.00	0.00	217.90
15-20cm	243.23	169.30	24.19	33.01	3.26	15.71	2.69	2.39	0.16	0.33	8.77	0.49	0.38	0.07	0.08	504.06
20-25cm	225.04	146.69	22.90	25.11	2.79	25.47	3.29	1.88	0.09	0.21	11.53	0.72	0.63	0.06	0.06	466.48
25-30cm	251.27	144.04	3.73	28.58	2.37	31.36	3.73	2.19	0.10	0.15	13.72	0.53	0.55	0.19	0.19	505.50
30-35cm	73.64	37.84	7.28	6.47	0.79	9.92	1.63	0.24	0.00	0.00	2.37	0.15	0.10	0.00	0.00	140.46
35-40cm	113.31	57.30	11.93	13.02	1.74	17.34	2.39	0.93	0.14	0.04	3.77	0.31	0.36	0.04	0.04	222.67
40-45cm	98.63	68.49	8.89	12.50	1.39	7.28	1.57	1.29	0.15	0.00	3.72	0.13	0.23	0.02	0.02	204.30
130-year-old forest																
Soil depth	**Ia**	**IIa**	**IIa'**	**IIIa**	**IIIa'**	**Ib**	**IIb**	**IIb'**	**IIIb**	**IIIb'**	**Ic**	**IIc**	**IIc'**	**IIIc**	**IIIc'**	**total brGDGTs**
0-5cm	410.80	424.68	58.92	86.29	7.41	42.55	12.39	5.59	0.08	0.08	27.05	2.00	0.31	0.20	0.23	1076.50
5-10cm	997.76	1083.35	259.67	325.38	37.49	125.25	52.24	28.04	1.19	0.18	72.80	6.33	1.02	0.25	0.22	2991.17
10-15cm	183.32	176.21	27.00	39.60	4.63	22.17	7.27	2.07	0.16	0.13	15.42	0.00	0.05	0.00	0.00	478.04
15-20cm	695.55	857.30	147.92	222.36	31.02	105.02	52.45	13.17	1.88	0.84	57.84	5.82	0.74	0.49	0.00	2192.38
20-25cm	420.68	378.88	71.52	93.13	15.13	48.99	18.03	7.11	0.99	0.42	31.95	1.32	2.22	0.24	0.21	1090.80
25-30cm	281.26	288.00	60.42	13.07	13.07	41.18	20.37	8.09	0.90	0.55	22.08	2.04	0.23	0.16	0.16	814.45
30-35cm	190.40	145.50	44.56	40.27	8.05	22.54	6.89	3.48	0.40	0.18	11.14	1.18	0.17	0.22	0.06	475.04
35-40cm	104.94	85.09	35.64	25.95	6.44	14.32	7.58	3.77	0.39	0.14	7.23	0.93	0.20	0.11	0.11	292.83
40-45cm	74.93	49.23	13.46	0.55	2.63	7.57	2.50	1.07	0.14	0.00	3.14	0.47	0.05	0.00	0.00	165.33

Table S5. BrGDGT indexes: CBT_{5Me} (Cyclisation ratio of Branched Tetraethers; Eqs. 1), MBT'_{5Me} (Methylation index of Branched Tetraethers; Eqs. 2), and IR_{6ME} (Isomer Ratio; Eqs. 3) of the pasture and the different forest stand ages in relation to soil depth (0 – 45 cm).

	Pasture			**40-year-old forest**			**55-year-old forest**			**130-year-old forest**		
Soil depth	**CBT_{5Me}**	**MBT'_{5Me}**	**IR_{6Me}**	**CBT_{5Me}**	**MBT'_{5Me}**	**IR_{6Me}**	**CBT_{5Me}**	**MBT'_{5Me}**	**IR_{6Me}**	**CBT_{5Me}**	**MBT'_{5Me}**	**IR_{6Me}**
0-5cm	-0.35	0.52	0.33	-0.40	0.49	0.33	-0.39	0.50	0.48	-1.00	0.48	0.12
5-10cm	-0.43	0.54	0.31	-0.26	0.48	0.44	-1.13	0.58	0.13	-0.82	0.45	0.18
10-15cm	-0.44	0.53	0.30	-0.22	0.51	0.44	-1.11	0.59	0.12	-0.95	0.50	0.13
15-20cm	-0.41	0.55	0.32	-0.23	0.54	0.44	-1.09	0.57	0.13	-0.91	0.43	0.15
20-25cm	-0.23	0.57	0.40	-0.06	0.60	0.57	-1.03	0.60	0.14	-0.90	0.51	0.16
25-30cm	-0.21	0.57	0.40	0.02	0.59	0.59	-0.99	0.63	0.05	-0.85	0.47	0.20
30-35cm	-0.34	0.55	0.32	-0.40	0.51	0.32	-1.07	0.65	0.15	-0.80	0.54	0.23
35-40cm	-0.24	0.58	0.39	0.13	0.58	0.52	-1.03	0.65	0.17	-0.66	0.51	0.28
40-45cm	-0.28	0.59	0.38	0.18	0.61	0.57	-1.10	0.57	0.12	-0.89	0.58	0.25

Table S6. Concentrations [ng g^{-1} dry weight] of the main isoprenoid glycerol dialkyl glycerol tetraether (isoGDGT) compounds GDGT-0 and Crenarchaeol and the total isoGDGT concentration of the pasture and the different forest stand ages in relation to soil depth (0 – 45 cm).

	Pasture		
Soil depth	**GDGT-0**	**Crenarchaeol**	**total isoGDGT**
0-5cm	73.00	32.14	114.32
5-10cm	94.18	27.09	131.20
10-15cm	36.13	9.58	50.10
15-20cm	22.68	3.82	28.12
20-25cm	18.76	4.37	25.42
25-30cm	18.47	5.28	26.38
30-35cm	14.14	3.65	19.49
35-40cm	21.19	4.65	29.85
40-45cm	11.90	2.14	15.66
	40-year-old forest		
Soil depth	**GDGT-0**	**Crenarchaeol**	**total isoGDGT**
0-5cm	4.07	3.93	9.19
5-10cm	11.05	5.65	22.90
10-15cm	2.79	2.36	5.87
15-20cm	4.91	2.56	8.52
20-25cm	2.73	0.77	3.88
25-30cm	1.26	0.39	1.75
30-35cm	0.13	0.16	0.37
35-40cm	7.15	2.02	10.36
40-45cm	4.17	0.96	5.52
	55-year-old forest		
Soil depth	**GDGT-0**	**Crenarchaeol**	**total isoGDGT**
0-5cm	4.25	4.17	9.24
5-10cm	0.14	0.00	0.14
10-15cm	0.11	0.02	0.18
15-20cm	0.17	0.00	0.17
20-25cm	0.12	0.00	0.11
25-30cm	0.19	0.02	0.25
30-35cm	0.14	0.04	0.27
35-40cm	0.38	0.19	0.61
40-45cm	0.09	0.03	0.20
	130-year-old forest		
Soil depth	**GDGT-0**	**Crenarchaeol**	**total isoGDGT**
0-5cm	1.24	0.17	1.65
5-10cm	1.46	0.36	2.18
10-15cm	0.36	0.17	0.55
15-20cm	0.78	0.61	1.67
20-25cm	0.61	0.63	1.50
25-30cm	0.63	0.64	1.92
30-35cm	0.87	0.82	2.27
35-40cm	0.88	1.16	2.89
40-45cm	0.70	0.55	1.60