

Table 1: Table: Selected studies of soil microbiomes with agricultural context and availability of metadata. Asterisks for metadata that were derived with resources other than the original primary study, *e.g.* personal communication or secondary study.

Loc	Name	Crop	Compartment	Tillage	Collection	Temp. in C	Soil type	pH	Soil texture	Percent sand	Percent silt	Percent clay
1-1	Switzerland_CA	Green manure	Bulk soil	Conventional	10 cm	8.9	Stagnic Entric Cambisol	7.1	Clayey	22	33	45
1-2	Switzerland_CB	Green manure	Bulk soil	Conventional	20 cm	8.9	Stagnic Entric Cambisol	7.1	Clayey	22	33	45
1-3	Switzerland_CC	Green manure	Bulk soil	Conventional	50 cm	8.9	Stagnic Entric Cambisol	7.1	Clayey	22	33	45
1-4	Switzerland_RA	Green manure	Bulk soil	Reduced	10 cm	8.9	Stagnic Entric Cambisol	7.1	Clayey	22	33	45
1-5	Switzerland_RB	Green manure	Bulk soil	Reduced	20 cm	8.9	Stagnic Entric Cambisol	7.1	Clayey	22	33	45
1-6	Switzerland_RC	Green manure	Bulk soil	Reduced	50 cm	8.9	Stagnic Entric Cambisol	7.1	Clayey	22	33	45
2-1	Italy_BS_G	Rice	Bulk soil	NA	10 cm	NA	Cambisol Sandy Loam*	6.1	Sandy loam*	60*	25*	12*
2-2	Italy_BS_nOG	Rice	Bulk soil	NA	10 cm	NA	Cambisol Sandy Loam*	6*	Sandy loam*	60*	25*	12*
2-3	Italy_PFS	Rice	Bulk soil	NA	10 cm	NA	Cambisol Sandy Loam*	6*	Sandy loam*	60*	25*	12*
2-4	Italy_RS_G	Rice	Bulk soil	NA	3 cm	NA	Cambisol Sandy Loam*	6*	Sandy loam*	60*	25*	12*
2-5	Italy_RS_nOG	Rice	Rhizosphere soil	NA	3 cm	NA	Cambisol Sandy Loam*	6*	Sandy loam*	60*	25*	12*
3-1	France_1IC	Asparagus	Rhizosphere soil	NA	NA	NA	NA	NA	Sandy and Silty	NA	NA	NA
3-2	France_1FC	Asparagus	Rhizosphere soil	NA	NA	NA	NA	NA	Sandy and Silty	NA	NA	NA
3-3	France_1ER	Asparagus	Rhizosphere soil	NA	NA	NA	NA	NA	Sandy and Silty	NA	NA	NA
3-4	France_1ERC	Asparagus	Rhizosphere soil	NA	NA	NA	NA	NA	Sandy and Silty	NA	NA	NA
4-1	France_2MONT	Wheat*	Bulk soil*	NA	NA	NA	NA	8.6	Clay loam	34.6	35.2	28.8
5-1	France_3BS	Wheat*	Bulk soil	NA	NA	NA	NA	5.6	Silty clay	6.2	51.9	41.9
6-1	France_3RS	Green manure	Bulk soil	NA	NA	NA	NA	7.25*	Sandy loam*	65.8*	22.1*	12.1*
6-2	France_3RS	Green manure*	Bulk soil	NA	NA	NA	NA	7.25*	Sandy loam*	65.8*	22.1*	12.1*
7-1	UK_T0	Bulk soil*	Bulk soil	NA	NA	NA	NA	6.7	Sandy*	NA	NA	NA
7-2	UK_T7	Bulk soil*	Bulk soil	NA	NA	NA	NA	6.7	Sandy*	NA	NA	NA
7-3	UK_T14	Bulk soil*	Bulk soil	NA	NA	NA	NA	6.7	Sandy*	NA	NA	NA
8-1	Germany_1BS-P-Int	Wheat	Bulk soil	Conventional	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-2	Germany_1BS-P-Ext	Wheat	Bulk soil	Conventional	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-3	Germany_1BS-CT-Int	Wheat	Bulk soil	Reduced	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-4	Germany_1BS-CT-Ext	Wheat	Bulk soil	Reduced	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-5	Germany_1BS-P-Int	Lettuce	Bulk soil	Conventional	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-6	Germany_1BS-P-Ext	Lettuce	Bulk soil	Conventional	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-7	Germany_1RS-CT-Int	Lettuce	Rhizosphere soil	Conventional	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
8-8	Germany_1RS-CT-Ext	Lettuce	Rhizosphere soil	Reduced	25 cm	9.7	Loess chernozem over limestone	7.2	Silty loam	8	70	22
9-1	Germany_2HRO_C	Maize*	Bulk soil*	Conventional	NA	8.1	Stagnic Cambisol (loamy sand)	6.3	Loamy sand	NA	NA	NA
9-2	Germany_2HRO	Maize*	Bulk soil*	Conventional	NA	8.1	Stagnic Cambisol (loamy sand)	6.3	Loamy sand	NA	NA	NA
10-1	Germany_2FRC	Maize*	Bulk soil*	Conventional	NA	8.4	Cambisol Silty loam	6.35	Silty loam	NA	NA	NA
10-2	Germany_2FRC	Maize*	Bulk soil*	Conventional	NA	8.4	Cambisol Silty loam	6.35	Silty loam	NA	NA	NA
11-1	Germany_3RA_0	Bulk soil	Bulk soil*	None	5 cm	9.5	Haplic Luvisol	7.5	Silty loam	3.5	65.1	31.4
11-2	Germany_3RA_1	Alfalfa	Bulk soil	None	5 cm	9.5	Haplic Luvisol	7.5	Silty clay loam	3.5	65.1	31.4
11-3	Germany_3RA_3	Alfalfa	Bulk soil	None	5 cm	9.5	Haplic Luvisol	7.5	Silty clay loam	3.5	65.1	31.4
11-4	Germany_3RA_6	Wheat	Bulk soil	Conventional	5 cm	9.5	Haplic Luvisol	7.5	Silty clay loam	3.5	65.1	31.4
11-5	Germany_3RA_12	Maize	Bulk soil	Conventional	5 cm	9.5	Haplic Luvisol	7.5	Silty clay loam	3.5	65.1	31.4
11-6	Germany_3RA_24	Wheat	Bulk soil	Conventional	5 cm	9.5	Haplic Luvisol	7.5	Silty clay loam	3.5	65.1	31.4
12-1	Germany_4ARD_BS	Bulk soil	Bulk soil	NA	20 cm	9.7	Endostagnic Luvisol	5.7	Loamy sand	72.5	15	10
12-2	Germany_4ARD_RS	Apple plants	Bulk soil	NA	20 cm	9.7	Endostagnic Luvisol	5.7	Loamy sand	72.5	15	10
12-3	Germany_4CO_BS	Bulk soil	Bulk soil	NA	20 cm	9.7	Endostagnic Luvisol	5.7	Loamy sand	72.5	15	10
12-4	Germany_4CO_RS	Apple plants	Bulk soil	NA	20 cm	9.7	Endostagnic Luvisol	5.7	Loamy sand	72.5	15	10
13-1	Belgium_Latvia_PPS	Lettuce	Rhizosphere soil	NA	NA	NA	Peat soil	6.23	Peat soil	NA	NA	NA
13-2	Belgium_Latvia_PPS_Chitin	Lettuce	Rhizosphere soil	NA	NA	NA	Peat soil	6.03	Peat soil	NA	NA	NA
14-1	Cyprus_BS_S20	Bulk soil	Bulk soil	NA	NA	NA	Sandy clay loam	8.6	Sandy clay loam	46.1	21.1	32.8
14-2	Cyprus_BS_S100	Bulk soil	Bulk soil	NA	NA	NA	Sandy clay loam	8.6	Sandy clay loam	46.1	21.1	32.8
14-3	Cyprus_RS_EC	Bulk soil	Bulk soil	NA	NA	NA	Sandy clay loam	8.6	Sandy clay loam	46.1	21.1	32.8
14-4	Cyprus_RS_EC	Lettuce	Rhizosphere soil	NA	NA	NA	Sandy clay loam	8.6	Sandy clay loam	46.1	21.1	32.8
14-5	Cyprus_RS_E20	Lettuce	Rhizosphere soil	NA	NA	NA	Sandy clay loam	8.6	Sandy clay loam	46.1	21.1	32.8
14-6	Cyprus_RS_E100	Lettuce	Rhizosphere soil	NA	NA	NA	Sandy clay loam	8.6	Sandy clay loam	46.1	21.1	32.8
15-1	Finland_OX	Bulk soil	Bulk soil	NA	74 cm	NA	Holocene estuarine clays and silts	3.7	Clayey	NA	NA	44.5
15-2	Finland_JR	Bulk soil	Bulk soil	NA	100 cm	NA	Holocene estuarine clays and silts	4.7	Clayey	NA	NA	44.5
15-3	Finland_UN	Bulk soil	Bulk soil	NA	10 cm	NA	Loamy sand soil	8.1	Clayey	NA	NA	44.5
16-1	Netherlands_1RS_At	Arabidopsis thaliana	Rhizosphere soil	NA	10 cm	NA	Loamy sand soil	NA	Loamy sand	NA	NA	NA
16-2	Netherlands_1RS_Zm	Maize	Rhizosphere soil	NA	10 cm	NA	Loamy sand soil	NA	Loamy sand	NA	NA	NA
16-3	Netherlands_1RS-Ta	Wheat	Rhizosphere soil	NA	10 cm	NA	Loamy sand soil	NA	Loamy sand	NA	NA	NA
17-1	Netherlands_2BS	Bulk soil	Bulk soil	NA	10 cm	NA	Loamy sand soil	NA	Loamy sand	NA	NA	NA
17-2	Netherlands_2BS	Bulk soil	Bulk soil	NA	NA	NA	Loamy sand soil	5.4	Sandy	88	8	2
17-3	Netherlands_2RS_AtCm3	Arabidopsis thaliana	Rhizosphere soil	NA	NA	NA	Loamy sand soil	5.4	Sandy	88	8	2
17-4	Netherlands_2RS_AtCp3	Arabidopsis thaliana	Rhizosphere soil	NA	NA	NA	Loamy sand soil	5.4	Sandy	88	8	2
17-5	Netherlands_2RS_AtFm3	Arabidopsis thaliana	Rhizosphere soil	NA	NA	NA	Loamy sand soil	5.4	Sandy	88	8	2
17-6	Netherlands_2RS_AtFm3	Arabidopsis thaliana	Rhizosphere soil	NA	NA	NA	Loamy sand soil	5.4	Sandy	88	8	2
1-7	Switzerland_2ConvTill	Green manure	Bulk soil	Conventional	10 cm	8.9	Stagnic Entric Cambisol, clayey	7.33	Sandy	31.3	23.01	45.95
1-8	Switzerland_2RedTill	Green manure	Bulk soil	Reduced	10 cm	8.9	Stagnic Entric Cambisol, clayey	7.08	Clayey	26.95	26.03	47.02
18-1	Poland_ConvTill	Lupine*	Bulk soil	Conventional	10 cm	8.5	Haplic Arenosol, sandy	6.3	Sandy	89.92	7.04	3.79
18-2	Poland_RedTill	Lupine*	Bulk soil	Reduced	10 cm	8.5	Haplic Arenosol, sandy	6.3	Sandy	92.98	5.83	1.79
19-1	Slovenia_2ConvTill	Green manure	Bulk soil	Conventional	10 cm	10.6	Skeletal Entric Cambisol, loamy	6.43	Loamy	37.6	43.23	19.17
19-2	Slovenia_2RedTill	Green manure	Bulk soil	Reduced	10 cm	10.6	Skeletal Entric Cambisol, loamy	6.95	Loamy	40.47	15.93	13.93
20-1	Denmark_Slovenia_KMC	Microbial consortium	NA	NA	NA	NA	Sandy soil	NA	Sandy	NA	NA	NA