Supplementary

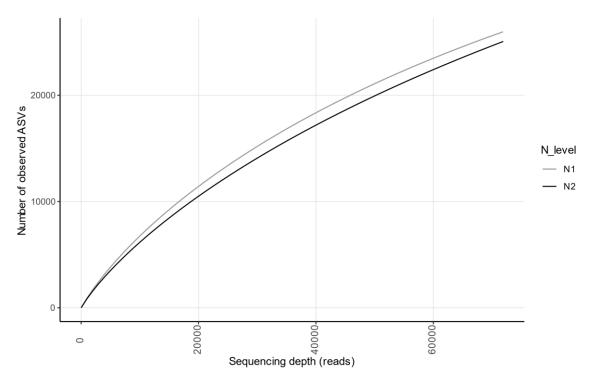


Figure S1: Rarefaction curve of the observed amplicons sequence variants (ASVs) of the soil inhabiting bacterial communities within the two different N-fertilizer treatments (N1 and N2). Samples of the same N treatment were aggregated and rarefied to the same number of raw reads (61206).

	Control		Root			Root+		
Actinobacteria -	23.2	27.4	29.2	32.9		26.5	30.8	
Proteobacteria -	20.9	23.8	26.3	18.5		19	20	
Chloroflexi -	15.3	19.5	18.7	26		18.8	24	
Acidobacteria -	12.4	6.8	6.3	5.4		8	5.6	
Planctomycetes -	9.7	5.1	5.2	3.1		8.4	2.7	
Verrucomicrobia -	4.8	2.7	2.9	2.1		4.4	3.4	% Read
Gemmatimonadetes -	5.6	3.4	3.3	2		3.3	2	Abundance
Firmicutes -	8.0	5.4	0.7	3.5		1.8	5.1	20
Patescibacteria -	1.9	2.4	2.7	3.3		2.7	3	10
Bacteroidetes -	2.6	1.8	2.6	1.6		4.6	2.2	
Armatimonadetes -	0.9	0.7	0.9	0.8		0.5	0.2	
Latescibacteria -	0.5	0.3	0.3	0.3		0.3	0.3	
Rokubacteria -	0.6	0.2	0.3	0.2		0.3	0.1	
Cyanobacteria -	0.3	0.1	0.2	0.1		0.8	0.1	
Nitrospirae -	0.2	0.1	0.1	0.1		0.2	0.1	
Fibrobacteres -	0.1	0.1	0.1	0.1		0.1	0.2	
	4	42	4	42		4	42	

Figure S2: Heatmap of the 16 most abundant phyla (>0.1%) in the analyzed soil samples grouped by N levels and litter input treatments (n=4, except for N2 Root: n=3).

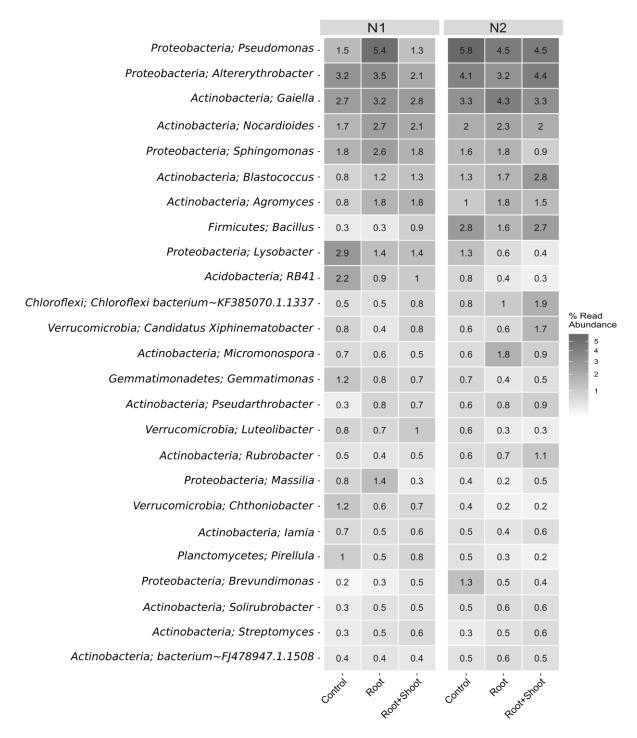


Figure S3: Heatmap of the 25 most abundant bacterial genera in the analyzed soil samples grouped by N levels and litter input treatments (n=4, except for N2 Root: n=3).

Table S4: Sequence summary, alpha diversity indices and PD (phylogenetic diversity) for each treatment. Shown are read sums and mean values of diversity indices.

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Sample ID	Number of Replicates	Raw Reads	Reads after Pipeline	Reads after Taxonomy filter	Subsample size	Observed ASVs	Shannon	Simpson	PD
N1_C	4	537242	443228	442610	61206	21113	9.22	0.9997	423.2
N1_R	4	590494	492088	491280	61206	21447	9.10	0.9995	431.0
N1_RS	4	557072	439132	438456	61206	21789	9.29	0.9997	436.6
N2_C	4	531926	441286	440968	61206	19142	8.79	0.9992	420.4
N2_R	3	848974	735676	735366	61206	18891	8.78	0.9991	409.2
N2_RS	4	536532	463944	463504	61206	20301	8.89	0.9990	403.3