

Figure S1. Repartition (%) of PCDD/F in the A+Fm+RW1+Rh+µb condition after six months of culture in microcosms.

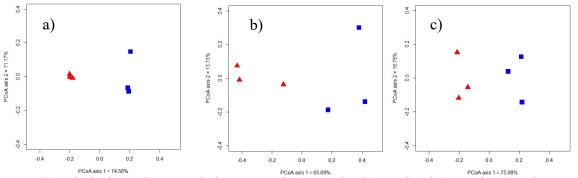


 Figure S2. Principal coordinates analysis (PCoA axis 1=765.09%
 PCoA axis 1=75.08%

 Red color for the control non-vegetated soil, blue color for A+Fm+RW1+Rh+μb condition

	Bacteria	Fungi	Archaea
No sequences (sum)	91,236	43,194	223,218
No seq. (mean)	15,206	7,199	37,203
No seq. filtred	5,505	2,354	12,254
No seq. chimeras (mean)	991	725	1,023
No seq. singleton (mean)	2,664	1,883	13,770
No samples	6	6	6
No seq. saved (mean)	6,046	2,962	13,216
OTUs (sum)	1,205	3,296	11

Table S1. Summary of sequencing bioinformatics identification of OTU.

Table S2: Description of the performed tests

Methods kind	Name	Descriptions	
	- AMF root colonization	- Microscopic	
	- Root and shoot dry weights	- Balance	
Physicochemical	- Pigment contents	- Spectrophotometer	
	- Dioxins/furans content	- GC/HRMS	
	- DNA quantification	-	
	- Soil enzyme assays (Dehydrogenase and	- Spectrophotometer and	
Biochemical	Fluorescein diacetate hydrolase)	spectrofluorometer	
	- DNA extraction	 Macherey-Nagel kit 	
Biological	- Cytotoxicity tests	- Cytotoxicity Detection Kit	
	- PCR and amplicon sequencing	lactate dehydrogenase and Cell	
		Proliferation Reagent WST-1	
		- Illumina MiSeq	
Bioinformatic	- QIIME	- Brazilian Microbiome Project	
	- Mothur		
Statistical	- Shapiro and Bartlett tests		
	- ANOVA one-way,		
	- Mann-Whitney		
	- Kruskal-Wallis tests		