

Table S1. Basic information on the sampling sites. CN= *Cistus salviifolius* samples from uncontaminated soils, CC= *C. salviifolius* samples from contaminated soils, DN= *Dittrichia viscosa* samples from uncontaminated soils, DC= *D. viscosa* samples from contaminated soils, EN= *Euphorbia pithyusa* samples from uncontaminated soils EC= *E. pithyusa* samples from contaminated soils.

Sample	Site	Municipality	N Latitude	E Longitude	Lithology (Carmignani <i>et al.</i> , 2001)	Elevation	Esp.	Incl.
CN01	Foresta Marganai	Iglesias	39°21,206'	8°34,827'	Outcrops of the Gonnese formation (Early Cambrian)	745	NNW	10°
CN02	Foresta Marganai	Iglesias	39°21,186'	8°34,775'	Outcrops of the Gonnese formation (Early Cambrian)	750	WNW	5°
CN03	Foresta Marganai	Iglesias	39°21,185'	8°34,784'	Outcrops of the Gonnese formation (Early Cambrian)	760	NW	20°
CC01	ScaviCungiaus (Monteponi)	Iglesias	39°18,560'	8°30,508'	Outcrops of the Gonnese formation (Early Cambrian)	275	NE	35°
CC02	ScaviCungiaus (Monteponi)	Iglesias	39°18,584'	8°30,586'	Outcrops of the Gonnese formation (Early Cambrian)	270	NW	35°
CC03	ScaviCungiaus (Monteponi)	Iglesias	39°18,275'	8°30,147'	Outcrops of the Gonnese formation (Early Cambrian)	280	-	0°
DN01	Simius	Villasimius	39°07,593	9°31,529	Outcrops of the Plutonic complex (Upper Carboniferous-Permian)	20	S	5°
DN02	Simius	Villasimius	39°08,092	9°32,091	Outcrops of the Plutonic complex (Upper Carboniferous-Permian)	24	SE	10
DN03	Simius	Villasimius	39°08,271	9°32,359	Outcrops of the Plutonic complex (Upper Carboniferous-Permian)	46	SW	5°

DC01	Monte Agruxiau	Iglesias	39°17,765'	8°29,286'	Outcrops of the Cabitza formation (Middle Cambrian-early Ordovician)	130	-	0°
DC02	Discaricafanghi rossi (Monteponi)	Iglesias	39°17,848'	8°30,219'	Outcrops of the Cabitza formation (Middle Cambrian-early Ordovician)	110	S	5°
DC03	Discaricafanghi rossi (Monteponi)	Iglesias	39°17,830'	8°30,410'	Outcrops of the Cabitza formation (Middle Cambrian-early Ordovician)	115	-	0°
EN01	SeddaMassenti	Iglesias	39°19,347'	8°33,762'	Outcrops of the Gonnese formation (Early Cambrian)	235	-	0°
EN02	SeddaMassenti	Iglesias	39°19,545'	8°33,513'	Outcrops of the Gonnese formation (Early Cambrian)	250	SE	5-10°
EN03	SeddaMassenti	Iglesias	39°19,545'	8°33,513'	Outcrops of the Gonnese formation (Early Cambrian)	250	SE	5-10°
EC01	Monte Agruxiau	Iglesias	39°17,802'	8°29,251'	Outcrops of the Cabitza formation (Middle Cambrian-early Ordovician)	130	-	0°
EC02	Discaricafanghi rossi (Monteponi)	Iglesias	39°17,862'	8°30,231'	Outcrops of the Cabitza formation (Middle Cambrian-early Ordovician)	110	S	5°
EC03	Discaricafanghi rossi (Monteponi)	Iglesias	39°17,819'	8°30,416'	Outcrops of the Cabitza formation (Middle Cambrian-early Ordovician)	115	-	0°

Table S2. Correlation analyses made using different trace elements (Zn, Pb, Cu, Mn, Fe) on leaf, root, and soil, showing the Spearman correlation coefficient (r). Statistical significance is indicated by asterisks (* = 0.01-0.05, ** = 0.01 -0.001, ***<0.001).

	SOIL			
	Zn	Pb	Cu	Mn
Pb	0.956***	-	-	-
Cu	0.775***	0.803***	-	-
Mn	0.578*	0.479*	-	-
Fe	0.911***	0.834***	0.659**	0.692**
	LEAF			
Pb	0.739**	-	-	-
Cu	-	-	-	-
Mn	-	-	-	-
Fe	-	0.773***	0.638**	0.655**
	ROOT			
Pb	-	-	-	-
Cu	-	-0.716**	-	-
Mn	-	-	-	-
Fe	-	0.731***	-0.532*	0.783***