

Table S1: Heavy metal concentrations and reference element (mg kg⁻¹ DW) in the rhizospheric soils samples collected from studied sites in the oriental region of Morocco.

Site	Plants	Heavy metals							Sc (ref. element)
		As	Cd	Cu	Ni	Pb	Zn	Sb	
Touissite	<i>R. alba</i>	61 ±11.7	26.2 ±2.3	402 ±118	9 ±2.6	13487.6 ±2364.6	5387.1 ±886.9	139.3 ±27.0	2.0
	<i>C. althaeoides</i>	71.6 ±2.2	26.3 ±3.2	479.7 ±49	14.3 ±1.7	8218.3 ±1807.2	5366.5 ±63.1	158.7 ±41.8	2.6
	<i>H. spinosissimum</i>	43 ±13.5	15 ±2.3	328 ±22.3	15.7 ±2.0	6445.1 ±707.6	3264.1 ±900.5	96.7 ±10.5	3.4
	<i>P. communis</i>	59.7 ±11.9	36.5 ±10.6	1405.8 ±409.5	12.3 ±2.1	18324.5 ±1051.4	2676.8 ±107.9	242.8 ±91.7	2.5
	<i>L. corniculatus</i>	62.7 ±9.4	16.9 ±1.1	786.4 ±194.1	16 ±1.6	12223.8 ±158.6	2096.4 ±646.9	224.2 ±68.5	3.0
	<i>C. bursa-pastoris</i>	82.9 ±24.4	35.8 ±3.0	706.7 ±155.7	14.7 ±1.6	8571.5 ±1127.1	4358.3 ±226.2	236.9 ±39.1	2.6
	<i>S. hispanicus L</i>	59.4 ±9.6	25.1 ±3.5	351.5 ±35.6	13 ±1.5	7792.9 ±2656.8	3049.1 ±324.3	168.1 ±32.2	3.1
	<i>R. rigidum</i>	nd	nd	nd	nd	nd	nd	nd	nd
Oued el Heimer	<i>C. libanotis</i>	18.7 ±8.8	37.8 ±10.4	35 ±18.2	14 ±2.9	611 ±99.6	318 ±82.8	51.4 ±21.2	2.0
	<i>A. alopecuroides</i>	133.4 ±45.5	32 ±12.9	314.8 ±91.5	17.3 ±2.1	6146.2 ±1675.3	2018.3 ±1176.5	152.7 ±44.0	2.4
	<i>H. incana</i>	466 ±127	280 ±62.5	589.4 ±130.8	44.4 ±3.1	12240.4 ±925.3	18232.3 ±2400.2	212.2 ±54.1	2.2
	<i>S. tenacissima</i>	424.5 ±34.1	88.6 ±8.4	152.5 ±59	16.1 ±0.7	7284 ±1468.8	43540 ±196.6	188.0 ±81.0	2.6
	<i>A. herba-alba</i>	56.3 ±8.3	50.8 ±10.1	55.8 ±14.9	12 ±1.3	3588.6 ±826.9	340.4 ±11.5	33.9 ±1.8	1.9
	<i>C. bursa-pastoris</i>	261.2 ±62.7	47.9 ±21.3	592 ±115	22.8 ±0.7	12461.3 ±1165.7	13068.3 ±209	247.1 ±6.0	1.8
Average crust		6.83	0.41	38.9	29	27	29	0.67	11.7

Nd: not detected

The values in the table represent “mean ± standard deviation”

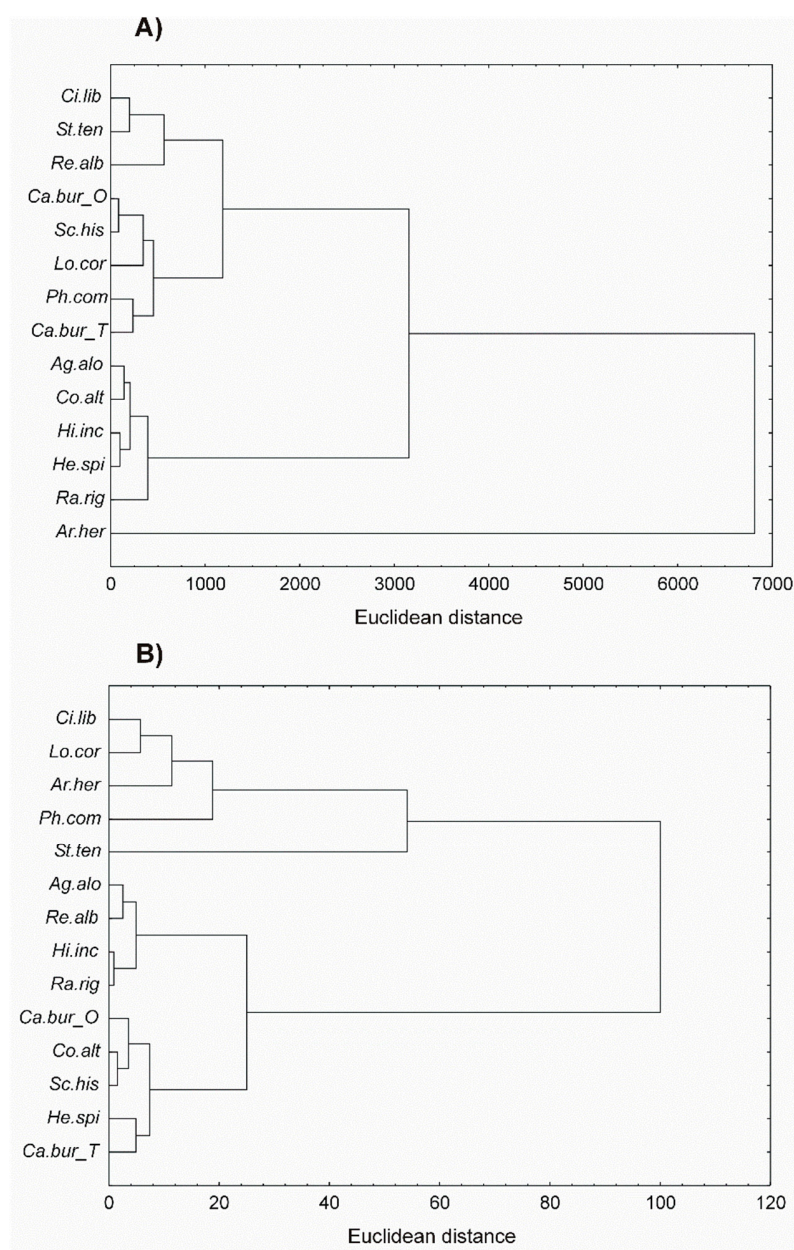


Figure S1. Dendrogram obtained by Ascending Hierarchical Classification (AHC) carried out on the metals concentrations in the shoots (A) and the roots (B) of the studied plants. Abbreviation of species names: *Ag.Alo*: *Agathophora alopecuroides*; *Ci.lib*: *Cistus libanotus*; *Ca.bur_T*: *Capsella bursa-pastoris* Touissite site; *Ca.bur_O*: *Capsella bursa-pastoris* Oued El Heimer site; *Lo.cor*: *Lotus corniculatus*; *Ph.com*: *Phragmites communis*; *He.spi*: *Hedysarum spinosissimum*; *Co.alt*: *Convolvulus althaeoides*; *Re.alb*: *Reseda alba*; *Sc.his*: *Scolymus hispanicus*; *Ra.rig*: *Rapistrum rigosum*; *Hi.inc*: *Hirschfeldia incana*; *St.ten*: *Stipa tenacissima*; *Ar.her*: *Artemisia herba-alba*.