de Bello et al., Preslia 83: 315-327, 2011

Electronic Appendix 1. – List of the 16 traits used to differentiate the various clonal growth forms used in this study. Each trait was coded as a binary variable (zero vs. one). For each vegetation type (having a different number of species and plots) the relative abundance of each trait as weighted by total species cover in a vegetation type is reported. The relative abundance of each trait was compared to that expected by chance (based on randomizing species cover within each vegetation type). Results of observed vs. expected relative abundance are reported for each trait and vegetation type (e.g. \uparrow = more even than expected by chance, which implies a % closer to 50%; \downarrow = less even). Vegetation types identified by the TWINSPAN analyses were: vegetation on screes, alpine meadows, shrubby vegetation, steppes, subnival vegetation, animal resting places, salt marshes and vegetation near to water bodies. GCO=clonal growth organ.

	Screes (20 plots x 66 sp.)		Meadow (54 plots x 143 sp.)		Shrubs (48 plos x 117 sp)		Steppe (83 plos x 157 sp)		Subnival (52 plos x 144 sp)		Resting places (9 plos x 42 sp)		Salt (92 plos x 149 sp)		Water bodies (11 plos x 71 sp)	
TRAITS	%	Obs vs. Exp	%	Obs vs. Exp	%	Obs vs. Exp	%	Obs vs. Exp	%	Obs vs. Exp	%	Obs vs. Exp	%	Obs vs. Exp	%	Obs vs. Exp
perennial main root, no adventitious roots, none clonal growth	45.2	\uparrow	45.1	ns	43.5	\downarrow	39.4	\downarrow	37.3	\downarrow	27.3	ns	35.6	\downarrow	27.5	\downarrow
perennial primary shoot	19.4	\downarrow	17.6	ns	15.4	ns	13.1	\downarrow	16.2	ns	15.5	ns	13.39	ns	8.9	ns
shoots herbaceous	100	ns	88.5	↑	98.5	ns	96.1	ns	92.6	ns	97.2	ns	98.5	ns	97.3	ns
extensive lateral spread	30.7	\uparrow	34.4	\uparrow	33.1	ns	39.8	\uparrow	41.3	\uparrow	48.1	\uparrow	38.7	\uparrow	28	ns
small lateral spread	49.9	ns	47.9	ns	51.4	ns	46.9	ns	42.2	\downarrow	36.4	ns	47.9	ns	63	ns
cushion	2.1	ns	0.8	ns	2.2	ns	2.6	ns	1.1	ns	0	ns	2.24	ns	0	ns
adventitious buds on roots	5.4	ns	3.6	ns	2.7	ns	3.1	ns	7.9	ns	0.2	ns	1.07	ns	0.5	ns
integrator	50.7	\downarrow	49.1	ns	45.6	\downarrow	42.3	\downarrow	46.2	\downarrow	27.7	\downarrow	37.33	\downarrow	28.1	\downarrow
slow splitter	46.3	\uparrow	50.4	ns	51.5	\uparrow	49.7	\uparrow	51.5	ns	55.1	ns	54.8	\uparrow	67.7	\downarrow
CGO photosynthetising	2.9	ns	0.46	ns	2.9	ns	7.9	\uparrow	2.2	↑	17.1	\uparrow	7.84	ns	4.1	\uparrow
CGO has storage function	46.3	\uparrow	50.4	ns	51.6	\uparrow	49.7	\uparrow	51.4	\uparrow	55.4	ns	54.8	\uparrow	67.3	\downarrow
clonal offspring resemble seedling	0.2	ns	0	ns	0.29	ns	1.8	ns	0	ns	3.6	ns	1.3	ns	0	ns
CGO provides anchorage	55.1	\downarrow	64.6	\downarrow	64.1	\downarrow	60.5	↑	67.9	\downarrow	58.2	ns	62.2	\downarrow	74.1	\downarrow
high potential multiplication rate	30.2	ns	16.8	\uparrow	31.9	\uparrow	29.3	\uparrow	26.4	\uparrow	34.9	ns	32.9	\uparrow	36.4	\uparrow
more CGOs combined in one species	2.9	ns	0.5	ns	2.8	ns	7.9	\uparrow	2.2	ns	17.1	\uparrow	7.5	ns	4.11	\uparrow
deep bud bank	27.9	\uparrow	35.9	\uparrow	31.4	\uparrow	35.3	ns	39.4	\uparrow	34.5	ns	32.9	\uparrow	28.1	ns

Electronic Appendix 2. – Centred and standardized PCA of the different environmental factors considered in this study. Abbreviations are: soil.moist=Soil moisture; stabil=soil stability.

