

Table S1. Species catalogue for all case study regions.

A/A	Species	VerKom	VerTet	Oly	Fal	Pag	Men
1	<i>Achillea chrysocoma</i>		1				
2	<i>Achillea millefolium</i>		1		1	1	
3	<i>Allium flavum</i> ssp. <i>tauricum</i>					1	
4	<i>Anthemis cretica</i> ssp. <i>columnae</i>				1		
5	<i>Anthoxanthum odoratum</i>				1		
6	<i>Anthyllis vulneraria</i> ssp. <i>pulchella</i>						1
7	<i>Anthyllis vulneraria</i> ssp. <i>rubriflora</i>	1	1				
8	<i>Arabis sagittata</i>		1				
9	<i>Arenaria conferta</i>			1			
10	<i>Asperula aristata</i> ssp. <i>nestia</i>				1		1
11	<i>Asperula</i> sp.	1					
12	<i>Astragalus depressus</i>				1		
13	<i>Asyneuma limonifolium</i>					1	
14	<i>Boraginaceae</i> sp. 1		1				
15	<i>Boraginaceae</i> sp. 2		1				
16	<i>Brachypodium pinnatum</i>		1				
17	<i>Briza media</i> ssp. <i>media</i>		1			1	
18	<i>Bromopsis erecta</i>		1				
19	<i>Bupleurum falcatum</i> ssp. <i>cernuum</i>		1	1			
20	<i>Buxus sempervirens</i>			1			
21	<i>Campanula orphanidea</i>				1		
22	<i>Campanula rotundifolia</i>		1				
23	<i>Carex</i> sp.	1	1				
24	<i>Carlina corymbosa</i>		1				
25	<i>Carum appuanum</i> ssp. <i>palmatum</i>					1	
26	<i>Centaurea affinis</i> ssp. <i>affinis</i>					1	
27	<i>Centaurea vermic</i>		1				
28	<i>Chrysopogon gryllus</i>	1					
29	<i>Cirsium arvense</i>		1				
30	<i>Cirsium eriophorum</i>		1				
31	<i>Clinopodium suaveolens</i>		1	1	1		
32	<i>Clinopodium vulgare</i> ssp. <i>vulgare</i>		1				
33	<i>Dactylis glomerata</i>		1			1	
34	<i>Daphne oleoides</i>		1			1	1
35	<i>Dianthus gracilis</i> ssp. <i>gracilis</i>						1
36	<i>Dianthus integer</i> ssp. <i>minutiflorus</i>		1	1			
37	<i>Dianthus petraeus</i> ssp. <i>orbelicus</i>				1	1	
38	<i>Dianthus viscidus</i>		1				
39	<i>Eryngium amethystinum</i>		1				
40	<i>Erysimum drenowskii</i>					1	
41	<i>Euphorbia baselensis</i>						1
42	<i>Euphorbia cyparissias</i>	1					1
43	<i>Euphorbia myrsinites</i> ssp. <i>myrsinites</i>		1			1	
44	<i>Festuca ovina</i>		1	1	1	1	
45	<i>Festuca</i> sp. 1	1					
46	<i>Festuca</i> sp. 2						1
47	<i>Festuca valesiaca</i>	1					
48	<i>Filipendula vulgaris</i>		1				
49	<i>Fragaria vesca</i>		1			1	1
50	<i>Fumana procumbens</i>	1					
51	<i>Galium mollugo</i> aggr.					1	1
52	<i>Galium verum</i> ssp. <i>verum</i>	1	1		1		

53	<i>Genista depressa</i>					1
54	<i>Geranium bohemicum</i>			1		
55	<i>Helianthemum canum</i> ssp. <i>canum</i>	1	1		1	1
56	<i>Helianthemum nummularium</i> ssp. <i>nummularium</i>		1			
57	<i>Helianthemum</i> sp.	1				
58	<i>Hellenocarum strictum</i>				1	
59	<i>Hieracium pannosum</i>			1		1
60	<i>Hieracium</i> sp.				1	
61	<i>Hippocrepis emerus</i> ssp. <i>emeroides</i>		1	1		
62	<i>Hordeum bulbosum</i>			1		
63	<i>Hypericum olympicum</i>					1
64	<i>Hypericum perforatum</i>		1		1	1
65	<i>Hypericum rumeliacum</i> ssp. <i>rumeliacum</i>	1				
66	<i>Inula oculus - christi</i>					1
67	<i>Juniperus communis</i> ssp. <i>communis</i>		1			
68	<i>Juniperus communis</i> ssp. <i>nana</i>			1		1
69	<i>Juniperus oxycedrus</i> ssp. <i>oxycedrus</i>	1				
70	<i>Koeleria lobata</i>		1			
71	<i>Koeleria pyramidata</i>			1		
72	<i>Leontodon crispus</i>	1	1		1	
73	<i>Liliaceae</i>	1				
74	<i>Linaria peloponnesiaca</i>			1		
75	<i>Linum catharticum</i>		1			
76	<i>Linum decumbens</i>	1				
77	<i>Linum tenuifolium</i>	1				
78	<i>Lotus corniculatus</i>		1	1		
79	<i>Luzula campestris</i>				1	
80	<i>Medicago lupulina</i>		1		1	
81	<i>Medicago</i> sp.					1
82	<i>Minuartia attica</i>				1	
83	<i>Myosotis</i> sp.					1
84	<i>Nepeta nuda</i> ssp. <i>nuda</i>					1
85	<i>Onobrychis alba</i> ssp. <i>calcareae</i>	1				
86	<i>Onobrychis montana</i> ssp. <i>scardica</i>		1			1
87	<i>Origanum</i> sp.					1
88	<i>Pilosella hoppeana</i> ssp. <i>testimonialis</i>	1	1	1		1
89	<i>Plantago holosteum</i>		1			
90	<i>Plantago</i> sp.					1
91	<i>Poa macedonica</i>				1	
92	<i>Polygala nicaeensis</i> ssp. <i>mediterranea</i>					1
93	<i>Potentilla argentea</i>					1
94	<i>Potentilla cinerea</i>				1	1
95	<i>Potentilla inclinata</i>		1			
96	<i>Potentilla recta</i>				1	1
97	<i>Potentilla</i> sp.				1	
98	<i>Primula veris</i> ssp. <i>columnae</i>		1			
99	<i>Prunella laciniata</i>		1			
100	<i>Ranunculus sartorianus</i>				1	
101	<i>Ranunculus</i> sp.		1			
102	<i>Rhinanthus rumelicus</i>					1
103	<i>Rosa turcica</i>					1
104	<i>Rumex acetosella</i> ssp. <i>acetoselloides</i>		1			
105	<i>Salvia fruticosa</i>	1				
106	<i>Sanguisorba</i> sp.	1				
107	<i>Scabiosa columbaria</i> ssp. <i>ochroleuca</i>	1	1		1	

108	<i>Securigera varia</i>						1
109	<i>Sedum album</i>			1			
110	<i>Sedum ochroleucum</i>		1				
111	<i>Sedum</i> sp.	1					
112	<i>Sempervivum marmoreum</i>						1
113	<i>Sesleria caerulea</i>	1					
114	<i>Sesleria</i> sp.			1			
115	<i>Sideritis scardica</i>	1	1	1	1	1	1
116	<i>Silene multicaulis</i> ssp. <i>multicaulis</i>			1			
117	<i>Silene vulgaris</i>		1	1			
118	<i>Stachys cretica</i> ssp. <i>salviifolia</i>		1				
119	<i>Stipa pulcherrima</i>	1			1	1	1
120	<i>Teucrium capitatum</i>	1					
121	<i>Teucrium chamaedrys</i> ssp. <i>chamaedrys</i>					1	1
122	<i>Teucrium chamaedrys</i> ssp. <i>olympicum</i>			1			
123	<i>Teucrium divaricatum</i> ssp. <i>divaricatum</i>	1					
124	<i>Teucrium montanum</i> ssp. <i>helianthemoides</i>			1			
125	<i>Teucrium montanum</i> ssp. <i>montanum</i>				1		1
126	<i>Thymus atticus</i>						1
127	<i>Thymus leucotrichus</i>	1	1	1			
128	<i>Thymus longicaulis</i> ssp. <i>longicaulis</i>		1		1		
129	<i>Thymus sibthorpii</i>						1
130	<i>Thymus</i> sp.					1	
131	<i>Trifolium alpestre</i>		1				
132	<i>Trifolium aureum</i>					1	
133	<i>Trifolium campestre</i>					1	
134	<i>Trifolium heldreichianum</i>				1	1	1
135	<i>Trifolium pratense</i>		1				
136	<i>Trifolium repens</i>		1		1		
137	<i>Trifolium</i> sp.						1
138	<i>Trisetum flavescens</i> ssp. <i>splendens</i>		1				
139	Valerianaceae						1
140	<i>Vicia cracca</i> ssp. <i>incana</i>					1	
141	<i>Vicia sativa</i> ssp. <i>nigra</i>		1				

1: indicates presence of each plant species in a specific case study region.

Table S2. Formulae of all diversity indices.

A/A	Diversity indices	Formulae
1	Shannon – Wiener	$H' = - \sum p_i \ln p_i$
2	Simpson	$D = \sum p_i^2$
3	Species Number	Species Number (N)
4	Margalef	$D = (S - 1)/\ln N$
5	Equitability	$J = H'/\log(S)$
6	Berger - Parker	$d = N_{\max}/N_T$
7	McIntosh	$D = N - U/N - \sqrt{N}$

Diversity index No. 1: where $p_i = N_i/N_T$, N_i is the abundance of the i th species, and N_T is the total abundance; therefore, p_i is the proportion of individuals of i th species. No. 2: where $p_i^2 = N_i(N_i - 1)/(N_T(N_T - 1))$, but it is usually calculated as: $p_i^2 = (N_i/N_T)^2$, where N_i is the number of individuals in the i th species and N_T is the total number of individuals in each sample. No. 3: the total species number in integer form. No. 4: where S is the number of recorded species and N is the total number of individuals in the sample. No. 5: where H' is Shannon–Wiener index and S is the number of recorded species. No.

6: where N_{max} is the number of individuals in the most abundant species and N_T is the total number of individuals. No. 7: where N is the total number of individuals in the sample. In addition, U is calculated by the following formula: $U = \sqrt{\sum n_i^2}$, where n_i is the number of individuals of each species.

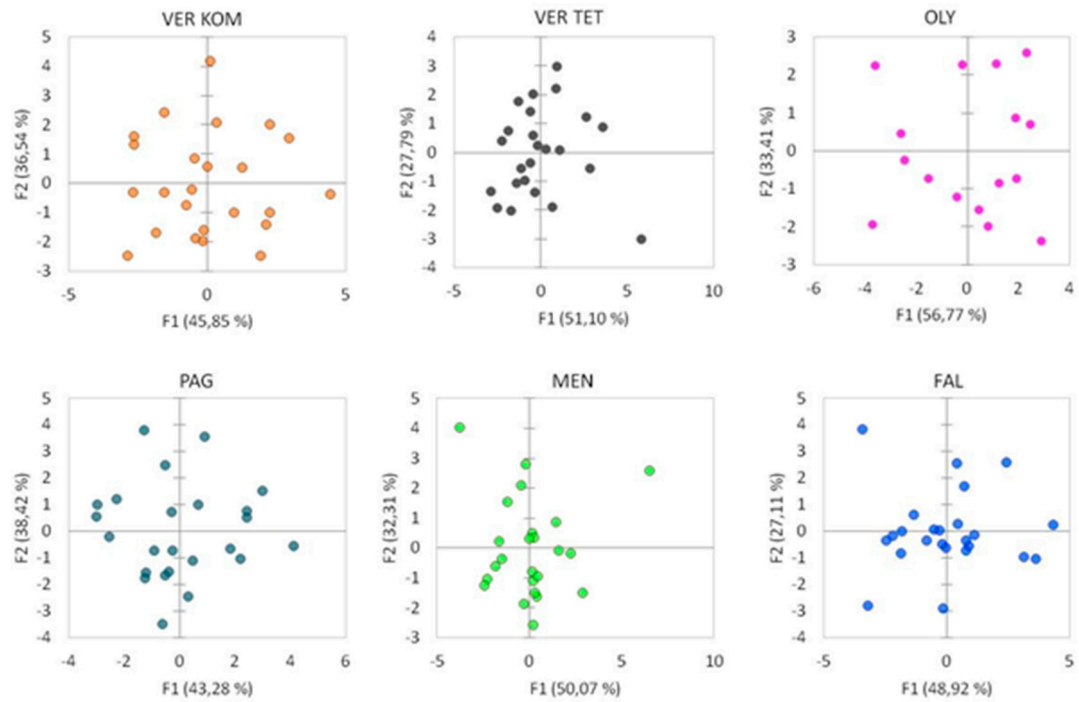


Figure S1. Principal component analysis of the individual's distribution per population according to their phenotypic traits. VERKOM: Komnina; VERTET: Tetralofos; OLY: Olympus; PAG: Paggaio; MEN: Menoikio; FAL: Falakro.