

## Supporting Information

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**Supp. Info. 1.** Assignment of plant species to ecological groups with the criterion of fire tolerance, from low and medium tolerant to fire, up to fire-resistant: Ft1= low tolerant, Ft2=medium tolerant, Ft3=fire resistant, Ft4=highly fire-resistant

<b>Plant taxa</b>	<b>Fire tolerance</b>
<i>Genista acanthoclada</i> DC.	Ft1
<i>Calicotome villosa</i> (Poir.) Link	Ft2
<i>Fumana thymifolia</i> (L.) Spach ex Webb	Ft2
<i>Thymelaea tartonraira</i> (L.) All.	Ft2
<i>Micromeria nervosa</i> L.	Ft2
<i>Eryngium campestre</i> L.	Ft2
<i>Reseda lutea</i> L.	Ft2
<i>Hypericum empetrifolium</i> Willd.	Ft2
<i>Phillyrea latifolia</i> s.l. L.	Ft3
<i>Pteridium aquilinum</i> (L.) Kuhn	Ft3
<i>Arbutus unedo</i> L.	Ft3
<i>Rhamnus alaternus</i> L.	Ft3
<i>Sarcopoterium spinosum</i> L.	Ft3
<i>Asphodelus</i> sp. (cf <i>fistulosus</i> L.)	Ft3
<i>Allium guttatum</i> Steven	Ft3
<i>Myrtus communis</i> L.	Ft3
<i>Thymus capitatus</i> (L.) Hoffmanns. & Link	Ft3
<i>Phagnalon graecum</i> Boiss. & Heldr.	Ft3
<i>Quercus coccifera</i> L.	Ft3
<i>Phlomis fruticosa</i> L.	Ft3
<i>Erica arborea</i> L.	Ft3
<i>Cistus creticus</i> L.	Ft4
<i>Cistus salvifolius</i> L.	Ft4

**Supp. Info. 2:** Presence of plant species per fire frequency layer. Underlined are the species common to all layers (recorded in all sampling plots). x indicates presence. In parenthesis the species abbreviated name as appears in the RDA diagram of Figure 7.

Plant taxa	fire frequency layer				
	0t	1t	2t	3t	4t
<i>Allium guttatum</i> Steven (Allgut)				x	x
<i>Anagallis</i> sp. (Anaspe)					x
<i>Anthyllis vulneraria</i> L. (Anther)					x
<i>Arbutus unedo</i> L. (Arbune)	x	x	x	x	x
<i>Asparagus acutifolius</i> L. (Aspacu)	x	x			
<i>Asphodelus</i> sp. (cf <i>fistulosus</i> L.) (Aspfis)	x		x	x	x
<i>Avena</i> sp. (Avespe)		x			
<i>Brachypodium ramosum</i> Roem. & Schult. (Braram)	x	x	x	x	x
<i>Brachypodium</i> sp. (Braspe)	x			x	x
<i>Bromus</i> sp. (Gramineae)			x		
<i>Calendula</i> sp					x
<i>Calicotome villosa</i> (Poir.) Link (Calvil)			x	x	x
<i>Capparis spinosa</i> L. (Capspi)	x	x			x
<i>Carex flacca</i> Schreb. (Carfla)	x				
<i>Catapodium</i> sp. (Catspe)					x
<i>Cerastium</i> sp. (Cerspe)					x
<i>Ceratonia siliqua</i> L. (Cersil)				x	x
<i>Chenopodium vulvaria</i> L. (Chevul)					x
<i>Cistus parviflorus</i> Lam. (Cispar)			x	x	
<i>Cistus salvifolius</i> L. (Cissal)			x	x	x
<i>Cistus creticus</i> L. (Ciscra)	x	x	x	x	x
Compositae (Compositae)					x
<i>Convolvulus arvensis</i> L. (Conarv)					x
<i>Convolvulus</i> sp. (Conspe)					x
<i>Cupressus sempervirens</i> L. (Cupsem)	x	x			
<i>Dorycnium hirsutum</i> (L.) Ser. (Dorhir)	x	x	x	x	x
<i>Dorycnium pentaphyllum</i> Scop. (Dorpen)		x			
<i>Dorycnium</i> sp. (Dorspe)				x	
<i>Erica arborea</i> L. (Eriarb)		x	x	x	x
<i>Eryngium campestre</i> L. (Erycam)				x	
<i>Euphorbia</i> cf. <i>paralias</i> L. (Eupspe)			x		x
<i>Fumana thymifolia</i> (L.) Spach ex Webb (Fumthy)			x	x	x
<i>Galium aparine</i> L. (Galapa)					x
<i>Genista acanthoclada</i> DC. (Genaca)	x	x	x	x	x
<i>Geranium purpureum</i> Vill. (Gerpur)					x
<i>Globularia alypum</i> L. (Gloaly)			x	x	
Gramineae (Gramineae)	x				x
<i>Hippocrepis unisiliquosa</i> L. (Hipuni)					x
<i>Hypericum empetrifolium</i> Willd. (Hypemp)		x			
<i>Inula viscosa</i> (L.) Aiton (Inuvis)				x	x
<i>Juncus</i> sp. (Junspe)	x	x	x	x	x
Labiatae (Labiatae)					x
<i>Medicago</i> cf. <i>littoralis</i> Rohde ex Loisel. (Medlit)					x
<i>Medicago</i> sp. (Medspe)					x

Plant taxa	fire frequency layer				
	0t	1t	2t	3t	4t
<i>Micromeria cf. nervosa</i> (Desf.) Benth. (Micner)			x	x	
<i>Myrtus communis</i> L. (Myrcom)	x	x	x	x	x
<i>Olea oleaster</i> Hoffmanns. & Link (Oleole)	x	x	x	x	x
<i>Phagnalon graecum</i> Boiss. & Heldr. (Phaspe)			x		
<i>Phillyrea latifolia</i> L. (Philat)	x	x	x	x	x
<i>Phlomis fruticosa</i> L. (Phlfro)				x	
<i>Pinus halepensis</i> Mill. (Pinhal)	x	x	x	x	x
<i>Pistacia lentiscus</i> L. (Pislen)	x	x	x	x	x
<i>Plantago cf. coronopus</i> L. (Placor)			x		
<i>Pteridium aquilinum</i> (L.) Kuhn (Pteaqu)	x				
<i>Putoria calabrica</i> (L.f.) DC. (Putcal)			x		x
<i>Pyrus amygdaliformis</i> Vill. (Pyramy)	x			x	x
<i>Quercus coccifera</i> L. (Quecoc)	x	x		x	x
<i>Quercus pubescens</i> Willd. (Quepub)				x	
<i>Reseda lutea</i> L. (Reslut)					x
<i>Rhamnus alaternus</i> L. (Rhaala)	x	x	x	x	x
Rosaceae (Rosaceae)					x
<i>Rubia peregrina</i> L. (Rubper)	x	x			
<i>Rubus canescens</i> DC. (Rubcan)			x		
<i>Rubus</i> sp.(Rubcan)	x				
<i>Salvia fruticosa</i> Mill. (Salfru)				x	
<i>Salvia</i> sp. (Salspe)					x
<i>Sarcopoterium spinosum</i> L. (Sarspi)		x	x	x	x
<i>Silene</i> sp. (Silspe)					x
<i>Smilax aspera</i> L. (Smiasp)	x	x	x	x	x
<i>Solanum nigrum</i> L. (Solnig)					x
<i>Sonchus</i> sp. (Sonspe)				x	
<i>Spartium junceum</i> L. (Spajun)				x	x
<i>Teucrium flavum</i> L. (Teuflo)		x		x	x
<i>Teucrium polium</i> L. (Teupol)		x		x	
<i>Thymelaea tartonraira</i> (L.) All. (Thytar)			x	x	
<i>Thymus capitatus</i> (L.) Hoffmanns. & Link (Thycap)		x	x	x	x
<i>Thymus</i> sp. (Thyspe)				x	
<i>Torilis</i> sp. (Torspe)					x
<i>Trifolium arvense</i> L. (Triarv)					x
<b>Total number of plant species (79)</b>	<b>25</b>	<b>26</b>	<b>30</b>	<b>40</b>	<b>54</b>

**Supp. Info. 3:** Presence of bird species per fire frequency layer. Underlined are the species common to all layers (recorded in all sampling plots). x indicates presence.

Bird species	fire frequency layer				
	0t	1t	2t	3t	4t
<u>Apus apus</u>	x	x	x	x	x
<i>Athene noctua</i>			x		
<i>Buteo buteo</i>	x				x
<u>Carduelis cannabina</u>	x	x	x	x	x
<i>Carduelis carduelis</i>	x		x	x	
<i>Carduelis chloris</i>	x	x		x	
<i>Cettia cetti</i>	x	x		x	
<i>Emberiza calandra</i>		x		x	x
<i>Emberiza cirrus</i>			x	x	x
<i>Emberiza melanocephala</i>					x
<i>Falco tinnunculus</i>			x		
<i>Fringilla coelebs</i>		x			
<i>Galerida cristata</i>			x	x	
<i>Hippolais pallida</i>	x				
<i>Hirundo daurica</i>		x		x	x
<u>Hirundo rustica</u>	x	x	x	x	x
<i>Lanius senator</i>			x		
<i>Muscicapa striata</i>	x				
<i>Parus ater</i>	x				
<i>Parus major</i>	x	x			
<u>Passer domesticus</u>	x	x	x	x	x
<u>Serinus serinus</u>	x	x	x	x	x
<i>Streptopelia decaocto</i>	x	x			
<i>Streptopelia turtur</i>		x			
<u>Sylvia melanocephala</u>	x	x	x	x	x
<i>Turdus merula</i>	x	x	x		
<b>Total number of plant species (26)</b>	<b>16</b>	<b>15</b>	<b>13</b>	<b>13</b>	<b>11</b>