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Acer-Fraxinus dominated woods of the Italian peninsula: a floristic and phytogeographical analysis

Claudia Angiolini[1]*, Bruno Foggi[2], Daniele Viciani[2]

[1] Department of Environmental Science, University of Siena, Via P.A. Mattioli 4, 53100, Siena, Italy

[2] Department of Evolutionary Biology, University of Florence, Via La Pira 4, 50121, Florence, Italy

* Corresponding author. Email: angiolini@unisi.it

Tab. 1 Italian peninsula *Acer-Fraxinus* dominated conenoses (the groups correspond to the classification in Fig. 1).

Group	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4
Rel. n.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Italian District	Mo	Mo	Mo	Mo	Mo	Mo	Ab	Ba	Ba	Ba	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ma	EM	EM	EM	Ma	Ma	La	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	To	Ma	To
References	8	8	8	8	8	8	9	9	9	9	7	7	7	7	7	7	7	7	7	4	9	9	9	9	9	9	9	2	2	2	2	2	2	2	6	6	4	6
Diagnostic species of the groups indicated by the numerical analysis (*: charact. and. diff. species of Tilio-Acerion)																																						
Acer lobelii*	1	2	1	2	1	1	1	2	3	3	2	2	2	4	3	2	3	3	3																			
Corylus avellana*							1	1	2	3			1	1	+	2	3	2	2	4			2	3	2	1	1	2	2	3	2	1	2	2	1	1	2	3
Rubus hirtus									1	+	3	3	3	3	2	3	2	2	3	+															1	2	+	
Lonicera caprifolium									+	1				+	+	1	+									2	+	+	+	+			+		+			
Fraxinus ornus			2	1																	1	2	1		2	+	+	1	1		2	+	1	+				
Carpinus betulus								1		2															1	1	2	2	3	1	1	2	1	2	2	2	3	+
Saxifraga rotundifolia	+	+	+				+	+						+	+			+	+																		1	
Ostrya carpinifolia			2	2	3	3																													2	2	+	3
Asperula taurina	+	1	2		+	+					1	+		+	1		2	2	2	2				+														
Polystichum setiferum	+		+	1	+	1				+					+	1	1	1	+								2		+					1			2	
Tilia platyphyllos*	2	1	2	2	2	1	3	1	2	3	3	2	2	2	2	3	1	2	1		4	4	2	2	2	1	2		+	1	+	2	+	1		3	1	2
Hedera helix			+	1	+		3	1	+	1	+		2	2	1	+	1	1	+		1	1	2	1	2	3	3	1	1	+	2	3	3	2	1	+	1	1
Euonymus latifolius		+	1	+	1		1				1	1	1	1		2	2		+	1				1	1			+	1	+	+	1	+	1			+	
Geranium robertianum*	1		2		+	+	+	+	+								+	1	+								+			+								
Geranium nodosum																								1	2											+		2
Anemone trifolia																								+														+
Cardamine heptaphylla																								3														
Cornus mas									1	2													+				+		+	+	1	+	1	+				
Glechoma hirsuta																																						
Galium aparine				+																+							+											
Other charact. and. diff. species of Tilio-Acerion																																						
Acer pseudoplatanus	+		1	1	1	+			1					1	+	+	2	1	2	1			+			2	1		1	2	+		+	+	2	+	2	
Fraxinus excelsior				+		1			+	+	+	+	+	+	+	+	+				1	1	+	+	+	+	+	1		+				+	+	+	1	+
Ulmus glabra							+							+		+	+				1	+									1	+		1	+		1	+
Acer platanoides		+	1	+	1	+													+		+		+			+	+					+						
Phyllitis scolopendrium	+				+		+			+										+	+														r			
Polystichum aculeatum											1	1	+	+	+	1		+	+					+				1	+	+	1		+	+				
Lunaria rediviva		+	+	+	+	1																								+								
Doronicum columnae																																						
Ribes multiflorum																																						
Circaea lutetiana								+																						+								
Actaea spicata									+	+			+		+																							
Cystopteris fragilis																																						
Ribes alpinum																																						
Charact. and. diff. species of Acerenion obtusati-pseudoplatani suball. nova																																						
Acer obtusatum (incl. A. neapolitanum)	2	2	2	1	3	2	1	1		1	2	1	2	2	+	+	+			4	1	1	3	1	3			1	1	2				4	+	+	2	2
Daphne laureola	1	+	1		+	1	+	1	1	+	+	+	1	1	+	1	+	+	+	+					1	+	+		1	+	1	1	1	+		+	+	
Sanicula europaea	1	+				+	+				1	1	+	+	+	1	+									+	+			+	+			+	1	+		+
Ilex aquifolium		1	+	+	+	1		+	3	3	+	+	+			+										+			2	+	1			+		1		
Helleborus bocconei																							+															
Pulmonaria apennina		+		+					+					1		+	+		+										+	+					1			+
Chaerophyllum temulum									+											+							+								+			
Cardamine kitaibelii											+					+		2	1							2	1										1	
Cephalanthera damasonium																	+																		+			
Digitalis micrantha																+	+									+		+										
Other species	+	+			+	+	+	1	1	1	1	1	1	1	1	1	1	1	1				+		+	2	+	1	1	+	1		1	+	2	+	1	2
Melica uniflora		3	3	3	2	2	3	2			1	1	2	1	+	+		+		2					2			3	3	2	2	2	3		3	2	4	2
Mercurialis perennis	3	2			1		2	1	3	3		+	+	+	+		1	+		1				4	4	4							+	1				
Fagus sylvatica	+	1	1	2	+	+				+	+	+	+	1	+	1	2	1	1				+	1						+	1	+	+	+	+	+	+	+
Cardamine bulbifera	2		1								3	2	2	1	+	1	2	1	1													+	1				1	1
Viola reichenbachiana													1	1	1	2	3	2	2	1	1	1	+		1	1	+									1	3	

Group	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
Rel. n.	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
Italian District	Ma	Ma	Ma	To	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	La	La	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	La	Ma	Ma	Ma	Ma	Ma	Ma
References	4	4	4	6	1	9	9	5	2	9	9	6	9	9	3	3	6	9	9	9	9	9	9	9	9	9	9	9	4	4	4	9	6	6	6	6	6	6
Diagnostic species of the groups indicated by the numerical analysis (*: charact. and. diff. species of Tilio-Acerion)																																						
Acer lobelii*																																						
Corylus avellana*	3	2	3	2	3							1	3	+	+	3	2	2	1			3	1	1	1	2	4	4	3	3	4				+	1		1
Rubus hirtus		+	+	1		1	1			+	+																		+	+	+		+		4	+	+	+
Lonicera caprifolium																																				+		
Fraxinus ornus				2									+								1				+	+	+	+										+
Carpinus betulus										1	1	2				1								+												+	+	
Saxifraga rotundifolia	2					+	+	+	+			1	2	2	2	2			+	1			+	+	+	+	+	+						+	+	2	2	
Ostrya carpinifolia						2	2			2	2	1		1	1	1	2	2					1	1	1	1							1		1	2	2	1
Asperula taurina	+	1	+	+		+	+	+		+	+	2	+	1	1	1													2				+			1		
Polystichum setiferum		+				+	+	1					+	2	2	2				+	+		+	1	2	1	3	3		+								
Tilia platyphyllos*						1	1	3	2	+	+	2	2	+	+		2	2	3	3				+												2	+	2
Hedera helix		2	2			2	2	1	+	+	+	1	2	3	3	2	1	4	1		1	2	2	2			4	4								1	+	
Euonymus latifolius	1		1			+	+	1	2	+	+	+	2	+	+			2	1	+	1		1	1	1	2	1	1	+							1	+	
Geranium robertianum*				+				2						1	1	+	+	2	+		+						+	+	1	+	+	1	2	+	+		+	+
Geranium nodosum													3				1																					
Anemone trifolia														+		+																						
Cardamine heptaphylla										+	+																											
Cornus mas		+				+	+	+					+			+					+			+			1	+										
Glechoma hirsuta								+						+	+	+																		+				
Galium aparine																																	+	1		+	+	
Other charact. and. diff. species of Tilio-Acerion																																						
Acer pseudoplatanus						+	+	+		1	1	2	+	+	+	2	+		+	2	1		+	+	1	+			+	+	+		4	1		2	2	3
Fraxinus excelsior	+	+	1		+			+	+	+	+		+	+	+						1						+	+		1		+	+		+	1	+	+
Ulmus glabra	+					+	+	+	+	+	+		1	+	+		+			+														+				+
Acer platanoides						2	2	+		+	+		1	3	3	3							1	1	+	+	2	2										
Phyllitis scolopendrium	+		+						+						+			+																1		+		+
Polystichum aculeatum							+																+	+		+												
Lunaria rediviva									1												2						+	+										
Doronicum columnae												+																								2	+	
Ribes multiflorum																																					+	
Circaea lutetiana		+	+																																			
Actaea spicata																			+																			
Cystopteris fragilis																	+																					
Ribes alpinum																																						
Charact. and. diff. species of Acerenion obtusati-pseudoplatani suball. nova																																						
Acer obtusatum (incl. A. neapolitanum)	4	4	3			2	2	1	2	+	+	3	1	1	1	2		4	3	2	2	1	4	3	3	3			4	2	2	4	2	1	2	2	2	2
Daphne laureola	+	1	1	+	2	+	+		1			+	2	1	1	+		+	+		+	+	+	+	+		1	1	+	+	+	+		+		+	+	+
Sanicula europaea	1		+		+	+	+	+		+	+	2	+	1	1		+										+	+		+								
Ilex aquifolium						+	+	1		1	1			2	2	+																					+	
Helleborus bocconei						+	+	+					+																				+					+
Pulmonaria apennina													+	+	+		+																					
Chaerophyllum temulum																		+	+											+	+	1				+		
Cardamine kitaibelii		+	+									1																		+	+		r		2	1	1	
Cephalanthera damasonium	+																													+								
Digitalis micrantha																																			+			
Other species		1	1	+		1	1	+	1	+	+	1		+	+	+	1	1	1	+	1	+	+	+	+	+	1	1					2		+	1	2	1
Melica uniflora	3	3	4	3	3	1	1	1	2	1	1	2	2	3	3	1	2		2	1			+	+	+		3	3	2	2	2	1	3	2	2	2	2	2
Mercurialis perennis	+			2	+	3	3	1	1	4	4	1	1	2	2	1			1		1			+					1	2	1	1	1	3	1		1	2
Fagus sylvatica	1	1	1	1		+	+	+		1	1	1		1	1	1	1										1	1		+			+		+	1	1	+
Cardamine bulbifera								2		2	2	2		+	+			2	3	1		1	+		+		2	2		1		1	3	2	+	3	3	2
Viola reichenbachiana	1	1	2	2		+	+					+	+			2	2				1		+	+	+	+	1	1	1	1	1			1	+	1	1	

Group	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Rel. n.	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	
Italian District	Ma	Ma	Ma	Ab	To	To	To	To	To	Ma	Ma	To	To	To	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	
References	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	Freq.
Diagnostic species of the groups indicated by the numerical analysis (*: charact. and. diff. species of Tilio-Acerion)																																							
Acer lobelii*																																							19
Corylus avellana*	+		+		1	2	2	2	3		1	2	3			2	2													1	1		2						69
Rubus hirtus			+		+	+			r				+	1	+	+		2	2																				40
Lonicera caprifolium																																	1						15
Fraxinus ornus																						1			1														24
Carpinus betulus					1							2	1	1																									27
Saxifraga rotundifolia			+	+	+	+		2	1	+	1				+	+	1	+										+				+	+		+	+			49
Ostrya carpinifolia					+			1	1			1	2				2			3	3	1		1	3	3	3	3	3	1	2	2	3	1	1	1	2	3	51
Asperula taurina									3	1				+																									34
Polystichum setiferum					r														+																+				35
Tilia platyphyllos*			+					1				2	2	1					+								+		3	4			1	3					64
Hedera helix					1	+		+				+	+	1			+								+		+		+	1		+	+				+		71
Euonymus latifolius				2	r			+	1																														52
Geranium robertianum*			+	+	1	2	2	2	1	1	2	1		1	+	1	2	+	1	1	2	3	+	+						+		1			+	r			57
Geranium nodosum					1				2			1	1	2											1	1	2	1	1	1	1		1	2	+	+	2	1	24
Anemone trifolia														+											1	+	1	1	+	+		+			+		1	1	15
Cardamine heptaphylla					2																				3	2	3	3	4	1		3			2		2		13
Cornus mas		1											+							2	2	1	1	+														+	28
Glechoma hirsuta			r													+				3	+	3	3	+															12
Galium aparine	+		+			2	4	+	1	+	+	1					+			r	r	r	1											+					22
Other charact. and. diff. species of Tilio-Acerion																																							
Acer pseudoplatanus	2	2	1	2	2			1	1	+		+								r					4	5	2	2	2	3	4	3	4	3	2	1			72
Fraxinus excelsior	+				+			+	+	+	+	+	+	+				+	+	r	+	+	+												+	+	+	+	65
Ulmus glabra			1		+			+	+					1																								1	32
Acer platanoides					r										r	+	+																						30
Phyllitis scolopendrium			r	+	+		2		+		+	+		r		1	+	r		1	1	1	+																30
Polystichum aculeatum														+																									20
Lunaria rediviva								+		+	+					2	1																						15
Doronicum columnae					1	1	+	2	1	1	1			2																		1	1						13
Ribes multiflorum	+	+	+		+		+							+																									7
Circaea lutetiana													2		+																					+			7
Actaea spicata								+		1																													7
Cystopteris fragilis								+			+									+	r		r																6
Ribes alpinum	1	2	+					1																															4
Charact. and. diff. species of Acerenion obtusati-pseudoplatani suball. nova																																							
Acer obtusatum (incl. A. neapolitanum)	1	1	3	2	2	1	3	2	1			3	2	2	+	1	3	2	5	2	2	3	4	4	3	2	4	4	4			1	4		2	2	3	3	96
Daphne laureola	+	+	+	+	+			+	+					+	+	+	+	+	1									+	+	+						1	+		78
Sanicula europaea												+					+	+																	+	+	2	+	42
Ilex aquifolium	+	1												2																						+			31
Helleborus bocconei	+				+	+			+	+	+	r		+							r	r		r									1					r	20
Pulmonaria apennina					+			+	+																											+			19
Chaerophyllum temulum	r	+	+				2			1						+		+																				r	18
Cardamine kitaibelii			+																																				17
Cephalanthera damasonium																		+							+			+											7
Digitalis micrantha																+			+																				7
Other species	+	+	+		1	+		+	+			2	1	1	+		+	+					+		1	+		+	1		+	1	2	+	1	1	1	1	87
Melica uniflora	2	2	2		1	3	2	3	1	2	2		2	2	+	2		3		2	1								1	1	4	3	1		3	1	2	1	86
Mercurialis perennis	2	3	3	2	2	1		1		2					2			3	1		2	2	2	2	1	2	1	2	3		1		+		1	3	3	3	71
Fagus sylvatica	+		1		+					1		1	+		+	+		1							2	3	2	2	2	2	2	1	3	+	+	+			70
Cardamine bulbifera	3	2	2	1		3	3	3	4	3	3		1	3	2	3	1	1	4						1	2	1		1	3	2		2	1		1	1	1	65
Viola reichenbachiana	1		+		2	1	1	+	+		1	1	2	1			+			2	2	2	3	3		1			+	+	1			4					62

Tab. S1 *(continued)*

Group	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Rel. n.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
Italian District	Mo	Mo	Mo	Mo	Mo	Mo	Ab	Ba	Ba	Ba	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ma	EM	EM	EM	Ma	Ma	La	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	To	Ma	To	Ma	Ma	Ma	To	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	La	La
References	8	8	8	8	8	8	9	9	9	9	7	7	7	7	7	7	7	7	7	4	9	9	9	9	9	9	9	2	2	2	2	2	2	2	6	6	4	6	4	4	4	6	1	9	9	5	2	9	9	6	9	9	3	3	6	9	9
Acer campestre	+	+				+			1	1	3	3	1			2	2							3	3	2	1	+	1	1	+	2	1	1					+		+			1	1			+	+	+	1	2	2	2			+
Galium odoratum		+	+	1		+			+	+			+		+					+						+	+		+						+	+	+	+			+			+	+	+	1						+		+	+	+
Mycelis muralis	+	1	1	+					+		+	+						+	+	1										+					1	+	+		1		+			+	+	+		+	+								1
Polygonatum multiflorum											2	2	1			+		+		+									1	1	1						1							+	+	+	+	+	+	+							
Lilium martagon				+	+	+									+	+	+				+	+		+	+	+			+		1			1	+	+	+	1	1		+		1	+	+	+	+	+	+	+	+	+	+	1	+		
Primula vulgaris							+		+							2				+						1	+							+	1		+	+		1	1					+	1	+	+	1		+	+			+	
Lathyrus venetus		+							+						+		+				+					+	+							+	1	+	+	+	+	+	+			+	+			+	+		+	+	+			+	
Campanula trachelium	1	+				+	+				1	1	+	+	+	1	+									+	+			+	+			+	1	+		+	1		+		+	+	+	+		+	+	2	+	1	1		+		
Festuca heterophylla								+	1	+	1	1	+	+	+	+	+			+	1	1	+	1		+			+		+			+	+	+	1	+	+		+			+	+	+											
Tamus communis									+		1	1	1	1		1			1		+	+	+					+	+		+		+	+	+	+			+		+	+		+	+	+						1	1	+			
Brachypodium sylvaticum									+	1	+	+	+					1		+		+	+					+	+	+			+	+	+	+	+			1	1							+	+		+	+	+			+	
Viola alba subsp. *dehnhardtii*														+	+	2			+	+										+							1	+	+	1	1					+				1		+	+	+			
Crataegus oxyacantha		+	2	2	1				1	+			1	1	+		2		2										1													1		1	1	2				+		3	3	3			
Hepatica nobilis								+		+										1	2	2						+	+	1			+	+			+	+	1		+	+									+		+				
Crataegus monogyna	2		1	1		2																								+														1	1	2	1	1	1	1		1	1				
Geum urbanum									1	+	+	+	+	+					1	+															+	+	1	+	+	+	1	+		+	+	+		+	+	+							
Rosa arvensis									2		+	+	1		+	+		1	+																			1					1									+	+				
Aegopodium podagraria									+	+			+	+			+						1											+	+						+	1	1								+			1			
Clematis vitalba														+	+	+						+		+	+			+	+	+	+		+	+								+		+	+	+						+	+	+	+		
Euphorbia amygdaloides																				+	1													1					+			+		+	+						+	+	+	+			
Lonicera xylosteum																																	1	+				+				2					+	+	+	+							
Sorbus aria																														+	+			+	+	+										+	+					+	+		+		
Euphorbia dulcis							+		1								+		+			+		+							+	+		+	+	+						+			+	+											
Lilium bulbiferum subsp. *croceum*	+	+	+	1	+		+									1											+			+					+											+							+		+		
Ranunculus lanuginosus							1	1	+	1				+				+							+			+			+	+	+		1		+	3					+														
Quercus cerris	+		+										1				1	2	1	1										1	+	2	1	+			1									+		+	+			+	+	1			r
Cardamine enneaphyllos									2	+	+										2	2	1			+	1		+		+			+										+	+							2	2	1		+	
Ruscus aculeatus																							+							1				+										+	+	+				+		1	1	+	+	+	+
Arum italicum					+								1	+	1	+	+	1	+	+																	+									1						2	2	1			
Corydalis cava										1																1																								2					1		
Ligustrum vulgare																							1				+																			+					1	1	1	+	+	1	+
Sambucus nigra											+	+	1	+	1		+			2																	+							+	+	+		+	+			2	2	1			
Galanthus nivalis																									+																																
Senecio fuchsii								+		+																								+							+												+				
Fragaria vesca		+		+					+					1		+	+		+										+	+					1			+													+	+	+		+		
Euonymus europaeus																							+			+	+	1	+	+		+		+					1	1	+	+		+	+												
Salvia glutinosa					+								+				1		+						+											+							1	+	+		1					1	1				
Lamiastrum galeobdolon																1	2	3	2					1	3																										1						
Dryopteris filix-mas																		2												+					+	1																			+		
Lathyrus vernus		+		+	1						1	1	1	+	1		1	+	1	+	+	+		+	+				+		1																										
Allium ursinum		+						1					+					+																1												+				1							
Stellaria holostea																			+																									+	+			+	+	+		+	+				
Melittis melissophyllum							+	+													+	+				+		+			+																1	+	+			+	+				
Luzula sylvatica																2																					+		+	+		+				1	1	+	+	+							
Asplenium trichomanes																										+	+										1														+	+	+		+		
Adoxa moschatellina																				3						+																				+						+	+	+	r		
Adenostyles australis																																				+																			+		
Geranium versicolor	1	+		+		+			1		1	1	1	1	1	1	+	+	1																																						
Arum maculatum	+										+	+	+				+	+	+	1																																		1			
Symphytum tuberosum																										+				+	1		+																								
Asarum europaeum											1	1	2	1	+	+	2	1																	+	1															1				1		
Milium effusum																1			2								+			+																				+	+				1	+	+
Cardamine graeca									+																																							+	+	+		1	+	+			
Castanea sativa																										2	2	1	1	2	2		+		2	2		2																			
Cyclamen repandum																										+	+				1	1	2	1														+	+	1			2				

Group	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Rel. n.	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	
Italian District	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	Ma	Ma	To	To	To	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	
References	9	9	9	9	9	9	9	9	9	4	4	4	9	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	**Freq.**
Acer campestre			+	+	+		+	1	1		+	+										+		1			+	+	+	+			+	+			1										3	2										52
Galium odoratum		1		+	+	+	+							+										+		+	+	+			+	+	+	+	+	+	+	+	+	+	r	+									+			+		+		50
Mycelis muralis	+									1	+	+		1	1	1		+	+	+	1	+	+	+	+		+	1	+	1			+		+			1							1	1	+		1									48
Polygonatum multiflorum										+	+			1	1	1	+	+	1	1	+	+	+				+	+	+	+				+			+								1	+	+		+		+	+		+	r	r	r	45
Lilium martagon			1														+	1										+			1	+	+		1																			r	r		2	44
Primula vulgaris	+	+		+	+	+	+							+	+		1	+	+			+	+								1		+	+			+										+	1	+		+	+		+			1	44
Lathyrus venetus					+			+	+				+		+		+		+		+		+		r	1		+			+			1			+	1		r				1										+	+			43
Campanula trachelium								+	+		+																				+					+	+																	+	+	2	+	42
Festuca heterophylla		+	+													+							+							+		+	+													+	+		+		+		+					40
Tamus communis														+	+	+											+							+		+	+	1	r		r																	36
Brachypodium sylvaticum		+									+			1	+	+								+	+	+		+					+							+																		36
Viola alba subsp. *dehnhardtii*	+			+	+		+			+		+		+	+	+	+	+	1	+	+	+																	+	1	+		2															35
Crataegus oxyacantha	1	3	1					1	1								+	+																1				2											3		1				3			32
Hepatica nobilis										+	+	+							+					+	1			+				+	1			+										+		1		+			1					31
Crataegus monogyna											1			2		2	1		2	2	2				1			+				2		3	2	2	1	+																3			1	31
Geum urbanum														1			+	1	+			+					r						+																									29
Rosa arvensis								1	1					+										2	1				1			1		2	+									+	+		+			2			3	2		1	1	29
Aegopodium podagraria		1	1		1	1	1	+	+														+									1		+	+	+				+			1										1					28
Clematis vitalba	+																						+														+	+																	+		+	26
Euphorbia amygdaloides					+		+									+	+	+		+	+			1		1	1	+					+					2										+				+						26
Lonicera xylosteum													+		2		2	1	1	2	1	+						1		1				+		+								2	1	2					1				1	+		26
Sorbus aria											+	+		+	1		r	+	+		+	+		+	+		+	+	+	+			+																									26
Euphorbia dulcis			+									+	+		+				+						+	+					r											r	1															24
Lilium bulbiferum subsp. *croceum*											+										+			1	2	2	r	+		+	+		+		1																							24
Ranunculus lanuginosus																								3	1					1		3	3															1	+					+				23
Quercus cerris		1																																	+																							22
Cardamine enneaphyllos			+	+	+	1	+																																																			22
Ruscus aculeatus																		+		+		+		+					+		+		+		+	1																						22
Arum italicum										1	+	+			1					+	1	2								+																												22
Corydalis cava														1	+	2	2	1		+	+	+		+	+		+	+	+					2	1	1																		+				21
Ligustrum vulgare		2				+	+	+	+															+		+							+			1	+																					20
Sambucus nigra										1	1	1										r																																				20
Galanthus nivalis											+	+														+	+	1	+	+					+	+	+							1	1	2	1	1	+	1		1	1					20
Senecio fuchsii					+										1	+											+	+		+	+			r		+		+	1	2	2	r	1															20
Fragaria vesca																								+			+	+																											+			19
Euonymus europaeus			+																					+	r								+																				+					19
Salvia glutinosa										+												+								+					1	+	2	1																				19
Lamiastrum galeobdolon																				+		r		+			1	+											+	r	r	+	+						1		1							19
Dryopteris filix-mas														+		+				+				+	+		1	+	1	+	r						1	+									+	+										19
Lathyrus vernus																																																										18
Allium ursinum								1	1		+	1		1	r	3	1			2		2																																				17
Stellaria holostea														+	1		+	+	1	+			+							+																												16
Melittis melissophyllum						+	+												+																																							15
Luzula sylvatica													+				+		+																+																				+			15
Asplenium trichomanes								+	+													r					+		+		+		r			+																						15
Adoxa moschatellina										2								+		+	+	+							2	2	+																											15
Adenostyles australis										+											+								1					+	+		+							3	+	1	1							+	+	r		15
Geranium versicolor																																																										14
Arum maculatum										+	1	+			+	+																																										14
Symphytum tuberosum																1								+					2																	1	+	+		+				+	+	1		14
Asarum europaeum																								1																																		13
Milium effusum											+	+	+				+																																									13
Cardamine graeca															1		1	+		1	1	1																																				13
Castanea sativa																															2	1																										12
Cyclamen repandum																		+				+																																				12

Tab. S1 *(continued)*

Group	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Rel. n.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	
Italian District	Mo	Mo	Mo	Mo	Mo	Mo	Ab	Ba	Ba	Ba	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ma	EM	EM	EM	Ma	Ma	La	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	To	Ma	To	Ma	Ma	Ma	To	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	La	La	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	Ma	Ma	To	To	To	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	
References	8	8	8	8	8	8	9	9	9	9	7	7	7	7	7	7	7	7	7	4	9	9	9	9	9	9	9	2	2	2	2	2	2	2	6	6	4	6	4	4	4	6	1	9	9	5	2	9	9	6	9	9	3	3	6	9	9	9	9	9	9	9	9	9	9	9	4	4	4	9	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	**Freq.**
Urtica dioica																			2	1	+										+		+	+																				+																																+			2								+		+		1																			12
Alliaria petiolata																											+	+																														+	1																	1	+				+	+	2								1	1					+																					12
Hieracium sylvaticum																	+																+	+		+		+	r				+					+																												r																+																										+		+	12
Heracleum sphondylium																																																																																	+		2	+	+	+			+	+		1	+	+	+													+									12
Polypodium vulgare																									+												+	1									+	+						1		1		+			+																									+			+	+																									12
Ajuga reptans										+																						+	+	+				+								+	+								+	+	+								+																												+																									12
Ruscus hypoglossum											1	1	2		+	1	+															+		+														+				1																							+																																														11
Quercus ilex																											1	+	1				+	+	+																											+	1	+	+											+																																												11
Pteridium aquilinum											+		+	+		2													1		1				+		+																																					+																									+																							r		11
Scutellaria columnae			+		+			+																		+	+																																						+	+	+													1	+																	1																					11
Ornithogalum pyrenaicum									+													1	+	+																						+	+			+	+																																						+						+																																		10
Smyrnium perfoliatum									+												+																		r					+								r																						+	+		r						+												+																											10
Solidago virgaurea																									+			+												+					+				+		+	+	+	+																																																																	r			10
Prunus avium																+														+	+						1		1											+																																										1						1					+																		1				10
Cyclamen hederifolium																				+					+	+												+														3							1				+	+							+																			+																									10
Bromus ramosus			1	+		+								+												+	+																+	+		1																										+																																																	10
Thalictrum aquilegifolium																																														+				+					+																		+				+	+		+	+				+								+																										10
Carex sylvatica	+		+			1		+								+																								+						+	+																																	+																																									r			10
Anemone apennina				+	+	1		+	+								2		1											+																																																					+		+																																														10
Laburnum anagyroides	+	1	+		1																														+									+		+							+																																				1												1																					10
Scilla bifolia																																					+							+	+			+	+			+	+																		+	+												+																																						10
Staphylea pinnata																					1	1	2	1	1									3																																			+		+																																														3												9
Vicia sepium																1																																																																													+	+	+	r	+					+					+																					+	9
Moehringia trinervia																										+	+										1												+																																1																	2		+									1															r			9
Poa nemoralis																											+																													+																	+		+								+											+		+		r																				r			9
Abies alba											+	+			1	2	2	1	2																							1																																																														+																										9
Stellaria media																										+	+																									1																										+	+	1	1											+																									+			9
Coronilla emerus																						+			+	+	+																																																																			r																	+								+						r	8
Cruciata glabra																												+							+	+																			+	+																										+					+						+																												8
Cornus sanguinea																												+																							1	+																									+	+	+							+																											1					8
Carex digitata																	+																	1											+								+	+	+														+																																																+	8
Epipactis helleborine									+																			+							r	+	+																			+																																							+									+												8
Anemone nemorosa															+	+																			1	1																																																2	1	2										2																											8
Helleborus foetidus										+																+												r	+	+														+						+					+																																																							8
Taxus baccata							+																							+				+																													+																															+																		2	1			7
Laburnum alpinum																																															+				+																																																		2	1	3			+			2						7
Sorbus torminalis								1			+	+	1			+												+																																																																																																	+			7
Stellaria nemorum subsp. *glochidisperma*																																																							+																												+										+			+	+		+																			+			7
Chelidonium majus																				1																																					1	+							+				1																																		1	1																7
Aconitum lamarckii																				4																																																	4	5	5																r						1																									6
Ceterach officinarum																																																					+																													+			r						r								r	r																6
Hordelymus europaeus																																																+	+																															1		+		+										+																					6
Neottia nidus-avis									+							+	+																	+								+																																																																																				r	6
Delphinium fissum																																																																								1				+	+					+	1		+																																			6
Veratrum album																																																																								r		r	+	1	1	1																																									6
Cephalanthera longifolia																																					1																																													r							r						+																				+	+	6
Lamium flexuosum	+		1	1		1			1	1																																																																																																																									6
Rubus idaeus																												1	3	4		+		1													1																																																																														6
Brachypodium rupestre																																										+																														+																														4												+	2	5
Centaurea montana																																																																																		1	+	1		+					1																														5
Prenanthes purpurea																																																																																												+	+	+																			r	r		5
Orchis maculata																+																			+																			+																					+															r																									5
Rubus caesius																																																												1	1	+	1	1																																																							5
Luzula forsteri																								+		+																											1											+	+																																																					5
Orobanche hederae																					+	+					+																			+	+																																																																													5

Tab. S1 *(continued)*

Group	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Rel. n.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	
Italian District	Mo	Mo	Mo	Mo	Mo	Mo	Ab	Ba	Ba	Ba	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ma	EM	EM	EM	Ma	Ma	La	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	To	Ma	To	Ma	Ma	Ma	To	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	To	La	La	Ab	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	La	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	Ma	Ma	To	To	To	Ma	Ma	Ma	Ma	Ab	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	To	
References	8	8	8	8	8	8	9	9	9	9	7	7	7	7	7	7	7	7	7	4	9	9	9	9	9	9	9	2	2	2	2	2	2	2	6	6	4	6	4	4	4	6	1	9	9	5	2	9	9	6	9	9	3	3	6	9	9	9	9	9	9	9	9	9	9	9	4	4	4	9	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	Freq.
Silene dioica																																																																																							+					+													+	+		+								5
Asplenium onopteris																																		+	+																				+					+		1																																																								5
Stachys sylvatica																			+											+																																											+																			+										1													5
Dactylis glomerata																										+																																														+										+	+																												r			5
Carduus personata																																																																																				+	1		+				+																				+				5
Senecio brachychaetus																																																		+																								r	+	+			+																																									5
Epilobium montanum																																																																																			r		+	+	+									+																			5
Lamium garganicum																				+																				+																													1	+	+																																																		5
Myosotis decumbens																																																							r																																		+	1	+		+																										5
Rhamnus alpinus																																																																						1													+	+						r				+																				5
Euonymus verrucosus								+	1	1																																				+																																																																									4
Arum lucanum		+	+	+		+																																																																																																																	4
Rubus ulmifolius								1																																																		1								+																											2																					4
Polypodium interjectum																										+	+							+																					+																																																																			4
Quercus pubescens																					2	1	2																																																																			1																										4
Poa sylvicola																										+																																																									1	1		+																																4
Anthriscus nemorosa																							+																					+	+										+																																																																				4
Campanula latifolia																													+	+			1																																								+																																														4
Cardamine impatiens																																																																							+		+																r																								+			4
Geranium sanguineum		+	2		1	2																																																																																																																4
Ornithogalum sphaerocarpum																													+	+		+	+																																																																																							4
Arisarum proboscideum																																																																	2	2																																																				1				3
Prunus spinosa																																									+										+																																															1																			3
Paris quadrifolia																																																																																			1			+	+																																	3
Arabis turrita										+																	+																																													1																																																	3
Allium pendulinum																										1	+																				1																																																																												3
Parietaria officinalis																																																								+	+		+																																																																			3
Rosa canina																																									+																																																											+	+																	3
Ulmus minor																							+																																					1																																	+																											3
Aquilegia vulgaris																																									+																																																										+																			r	3
Rubia peregrina																						+						+						+																																																																																								3
Aremonia agrimonioides										+						1																																																																						+																																		3
Clinopodium vulgare																																			+																																																		+	+																																		3
Acer monspessulanum																																																								+					+																																										1																		3
Agropyron caninum									1																															+																																			1																																																		3
Cardamine chelidonia	+	1		+																																																																																																																							3
Gagea lutea																																																				+	+				r																																																																						3
Hypericum montanum																																+	+																																								+																																																											3
Lamium maculatum																																														+																										+																			+																									3
Lamium purpureum																																															+																												+												+																											3
Silene alba																																																																								+	+			+																																																					3

Only species present in more than 3 relevés are shown. Relevés references: 1 – Pedrotti 1982; 2 – Taffetani 2000; 3 – Biondi et al. 2002; 4 – Allegrezza, 2003; 5 – Catorci et al. 2003; 6 – Angiolini et al. 2005; 7 – Pirone et al., 2005; 8 – Paura & Cutini, 2006; 9 – Unpublished. Italian Districts: Mo – Molise; Ab: Abruzzo; Ba – Basilicata; Ma – Marche; EM – Emilia-Romagna; La – Latium; To – Tuscany.

Tab. 2 Synoptic table with constancy classes (1 – 1-20%, 2 – 21-40%, etc.) of central and southern European *Acer-Fraxinus* dominated relevés (the groups correspond to the classification in Fig. 2).

	Group			**A**	**A**	**A**	**A**			**B**	**B**	**B**	**B**			**C**	**C**	**C**	**C**	**C**			**D**	**D**	**D**	**D**	**D**	**D**	**D**			**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**			**F**	**F**
	Localities			N Switzerland	NW Switzerland	NW Switzerland	SEFrance			NW Switzerland	NW Switzerland	SE Germany	SE Switzerland			W Slovenia	W Slovenia	CE Slovenia	CN Slovenia	NE Italy			NW Italy	NE Italy	W Croatia	SW Slovenia	SW Slovenia	CW Slovenia	CW Slovenia			NW Italy	C Italy	C Italy	C Italy	CE Italy	CE Italy	CS Italy	CS Italy			C Bosnia	E Croatia
	References			**1**	**2**	**3**	**4**			**5**	**6**	**7**	**8**			**9**	**10**	**11**	**12**	**13**			**14**	**15**	**16**	**17**	**18**	**19**	**20**			**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**			**29**	**30**
Chorotype	**Species**	**Indic. Val. gr. A**	**p gr. A**					**Indic. Val. gr. B**	**p gr. B**					**Indic. Val. gr. C**	**p gr. C**						**Indic. Val. gr. D**	**p gr. D**									**Indic. Val. gr. E**	**p gr. E**								**Indic. Val. gr. F**	**p gr. F**		
European	*Adenostyles alpina* (*A. glabra*)	**70.7**	**0.004**		2	2	1																	2																		
European	*Cardamine heptaphylla*	**60.9**	**0.008**		3	2	1																5									4										
Boreal	*Epilobium montanum*	**68**	**0.003**		4	3	5			1		2	1												2		1								1							
European	*Hordelymus europaeus*	**73.1**	**0.003**	2	3	1																													1							
European	*Lonicera alpigena*	**79**	**0.008**	4	2	2	3						3			1	1				53	0.031	5	1	1	3	4															
European	*Phyteuma spicatum*	**79.6**	**0.006**	3	3	1	2	61.7	0.021	4	1		5							2				3																		
European-Tetidic	*Polygonatum verticillatum*	**89.4**	**0.002**	5	4	1	3			1		5				2	1		1																						
European	*Primula elatior*	**89.9**	**0.001**	4	5	1	1	61.9	0.016	2	1		5																													
Eurosiberian	*Ribes alpinum*	**68**	**0.01**	1		1	1												1																						
European	*Rosa pendulina*	**96.7**	**0.001**	3	2	2	2																	1				1													
Boreal	*Rubus idaeus*	**77.8**	**0.007**	5	4	2	3			2		4	2				2						5		3	2	3		1						2						
Holartic	*Rubus saxatilis*	**73.4**	**0.004**	4		1	2																	1																	
Holartic	*Sambucus racemosa*	**67.6**	**0.008**		3	3	1					1													1	1	2															
European	*Aconitum lamarckii*	78.3	0.012	5	1	1	3			5						2	1	2		2				2	1			2							1							
European	*Adenostyles alliariae* incl. *australis*	60.9	0.012		3	1	2			4																							3		2							
European	*Chaerophyllum hirsutum*	65.9	0.011	3	3		4										3		2	3				1																	
Eurosiberian	*Dryopteris dilatata*	52.7	0.049		2	1	1					3	5					1						1				1													
Eurosiberian	*Gymnocarpium robertianum*	47.3	0.022			4	4																			1	2														
European	*Knautia dipsacifolia*	48.7	0.015	4	2								1																												
Boreal-Tetidic	*Poa nemoralis*	60.9	0.035	4		1	3			2	1	2												1		1	1							1		2	1				
European	*Prenanthes purpurea*	76.5	0.012	5	5	1	1					3	2						1		62.1	0.032	5	2	3		2	1	3				1		1					
European	*Salix appendiculata*	48.7	0.018	4			2																	1																	
Boreal	*Viola biflora*	49.2	0.018	5			4												1																						
Cosmopolitan	*Dryopteris filix-mas*	64.8	0.043	4	5	5	5			5		5	5			5	5	4	4	3				4	3	4	5	2	2				1		2	2		1			2	3
European	*Abies alba* Miller				5	1		**84.3**	**0.004**	5	1	3	5				2	2	1						3													3			
Boreal	*Galium odoratum*				4	4		**73.6**	**0.004**	4	4	5	5			2	4	1	2					1	2								1		2	4	4	3	3			5
Holartic	*Impatiens noli-tangere*				1	2	1	**89.3**	**0.002**	1	3	4	1					1	2																						
European	*Ranunculus ficaria*							**74.7**	**0.006**	1	1	1	2	51.9	0.025		2	4	3									1														1
Holartic	*Rubus fruticosus*							**70.5**	**0.003**	4		4	4										2	1					2													
Eurosiberian	*Stachys sylvatica*			3	5			**82.7**	**0.005**	1	4	1	5						1						2								1		1	1		1				
European-Mediterranean	*Arum maculatum*				1	2		71.4	0.024	5	4	1	5	71.4	0.014	4	4	5	3	2			1	2			1	5	1						2			1	3			2
European-Mediterranean	*Circaea lutetiana*							58.1	0.048		2	2	5				3	1	2	1								2					1			1	1		1			1	3
Eurosiberian	*Scrophularia nodosa*				1			63.3	0.024		3	1	1						1							2															2
Eurosiberian	*Adoxa moschatellina*									2	1			**68.4**	**0.006**	4	4	2	3							2	2	1						2		1					
European-Tetidic	*Aegopodium podagraria*			4						4	1		4	**76.2**	**0.001**	5	5	5	5	5			4	2				2			5	3		2		2		4			2
European-Mediterranean	*Anemone nemorosa*									2		1	5	**86.2**	**0.001**	5	5	5	4	1				1	1	1	2							1	1			1			
European	*Anemone ranunculoides*									2	1			**72.7**	**0.002**	3	3	1	1					1																	
Boreal	*Angelica sylvestris*			3									3	**66.7**	**0.004**	2		1	2	2				1																	
European	*Aposeris foetida*													**98**	**0.001**	5	4	4	5	2				2																	
Holartic	*Aruncus dioicus*			2	5	1							2	**75.6**	**0.003**	1	2	4	4	2			1	5	1			3	1												
Apennine-Balkan	*Asarum europaeum*				1					5	2			**73.3**	**0.006**	4	4	5	5	4				3	3	5	5	5	2						1			4			4
Holartic	*Atryrium filix-foemina*				4	1	5					5	5	**73.9**	**0.007**	5	4	3	3	2				1			3	1													2	3
Eurosiberian	*Carex alba*													**76.2**	**0.002**	3	1		2	2				2																	
European	*Carpinus betulus*									2	1		1	**74.2**	**0.009**	5	4	3	4	3				3	2		2	3	2			5			1	4	1		1			5
Balkan	*Cardamine trifolia*													**92**	**0.001**	4	3	3	3	3					1		1	4	1												
Holartic	*Chrysosplenium alternifolium*				2		1						1	**70.2**	**0.003**	3	2	2		3						1	2														
European	*Corydalis cava*									5				**78.9**	**0.003**	3	4	3	1	1								3							2		2	1	3			
European	*Corydalis solida*									2				**76.2**	**0.002**	2	3	2	1																						

Tab. S2 *(continued)*

	Group			**A**	**A**	**A**	**A**				**B**	**B**	**B**	**B**			**C**	**C**	**C**	**C**	**C**			**D**	**D**	**D**	**D**	**D**	**D**			**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**			**F**	**F**
	Localities			**N Switzerland**	**NW Switzerland**	**NW Switzerland**	**SEFrance**				**NW Switzerland**	**NW Switzerland**	**SE Germany**	**SE Switzerland**			**W Slovenia**	**W Slovenia**	**CE Slovenia**	**CN Slovenia**	**NE Italy**			**NW Italy**	**NE Italy**	**W Croatia**	**SW Slovenia**	**SW Slovenia**	**CW Slovenia**	**CW Slovenia**			**NW Italy**	**C Italy**	**C Italy**	**C Italy**	**CE Italy**	**CE Italy**	**CS Italy**	**CS Italy**			**C Bosnia**	**E Croatia**
	References			**1**	**2**	**3**	**4**				**5**	**6**	**7**	**8**			**9**	**10**	**11**	**12**	**13**			**14**	**15**	**16**	**17**	**18**	**19**	**20**			**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**			**29**	**30**
Chorotype	**Species**	**Indic. Val. gr. A**	**p gr. A**					**Indic. Val. gr. B**	**p gr. B**						**Indic. Val. gr. C**	**p gr. C**						**Indic. Val. gr. D**	**p gr. D**								**Indic. Val. gr. E**	**p gr. E**								**Indic. Val. gr. F**	**p gr. F**		
European	*Crocus vernus* incl. *napolitanus*														**80**	**0.001**	5	3	4	4																								
Cosmopolitan	*Deschampsia caespitosa*													4	**92.6**	**0.001**	4	1	1	2	2																								
Boreal	*Dryopteris carthusiana*			3									1		**92.9**	**0.001**	5	2	3	1	2				1																			
European-Mediterranean	*Euonymus europaeus*										1			2	**78.7**	**0.004**	4	2	3	2	3				1	1			4	4				1			3	2					
European	*Fragaria moschata*														**55.6**	**0.007**	3	1		1																							2	
Holartic	*Gagea lutea*														**74.1**	**0.003**	1	2	1	1									1									1					
Boreal	*Galeopsis speciosa*														**71.4**	**0.002**		1	1	1	2																						3	
European	*Gentiana asclepiadea*						1								**74.3**	**0.002**	5	4	2	2					1	3																		
E European	*Hacquetia epipactis*														**77.1**	**0.001**	4	4	4	4						1			2														
European	*Helleborus niger*														**77.4**	**0.003**	3	1	1	1						1																	
European	*Isopyrum thalictroides*														**78.8**	**0.001**	5	3	3	2									1														
Balkan	*Lamium orvala*														**87.5**	**0.001**	5	5	3	5	3	**60.1**	**0.007**		3	1	3	3	3	2												
European-Mediterranean	*Listera ovata*			4										1	**67.8**	**0.008**	4		1	3	2				2				1	1												
Holartic	*Maianthemum bifolius*			4											73.5	0.001	4	2		1	2																						
Boreal-Tetidic	*Myosotis sylvatica*						1								75	0.001	1	2	2	1					1																		
Holartic	*Oxalis acetosella*	69.3	0.036	4	5	4	3				4		2	5	73.3	0.002	5	5	4	4	4				3		1	4	3														2	
European	*Petasites albus*				4		2							1	70	0.003	4	4	3	3					2	1																	
Eurosiberian	*Picea abies*				3	3	4				2			3	84.8	0.001	5	4	4	4	2				2																		
European-Tetidic	*Polygonatum multiflorum*				2	1	1				2	1		5	68.7	0.01	5	4	5	5	3			2	3	2	1	1	4	4			3	2		4	2	2	4	2			2	
European	*Pseudostellaria europaea*														60	0.003	5	1		2																							
European-Mediterranean	*Pulmonaria officinalis gr.*											1			80.2	0.003	5	4	5	5	2	62.3	0.018		3	3	4	5	4	2													4	
European	*Ranunculus lanuginosus*				1										84.2	0.002	5	4	3	2	2								1						2	2	1	5	1			2	
Balkan	*Vicia oroboides*														77.4	0.002	1	2	1	2						1																	
Boreal	*Paris quadrifolia*			4	2	1	4				5	1	1	5	66.1	0.046	5	4	2	2	3			5	3	2		2	4	1			1										
Eurosiberian	*Alnus glutinosa*													2	35.7	0.048			3	2					1																		
Mediterranean	*Asperula laevigata*														48.6	0.026		2		1	3								2	5												
European-Tetidic	*Brachypodium sylvaticum*			5								2	2	4	65	0.044	3	2	1	4	3				2		3		2					2	2	4	2		3			2	
Holartic	*Caltha palustris*													1	57.1	0.012			1	1	2																						
European	*Cardamine pentaphyllos*				3	2	4								63.4	0.02	5	4		2	2				3				5														
European-Mediterranean	*Carex sylvatica*			5	4									5	72.2	0.013	2	3	3	4	2			1									2	1				1	3	1		4	
Eurosiberian	*Cirsium oleraceum*			3	2									2	50	0.028			3	2	2																						
European-Mediterranean	*Doronicum austriacum*														54.5	0.016		1	4	1									2	1													
Balkan	*Euphorbia carniolica*														50	0.033		2	3	2					2				4	1													
Holartic	*Festuca gigantea*											2		1	52.2	0.025	1	1			2																						
European	*Fraxinus excelsior*			4	3	3	2				5	5	4	5	64.1	0.015	5	5	5	5	5			4	4				5	4				4		5	1	3	2	4			3	
European	*Hepatica nobilis*														70.7	0.013	4	3	1	3	3			3	3	3	1	2		3			2	1		1	3	2		2			2	1
European	*Lunaria rediviva*					2	3				2				64.5	0.016	1	3	2	1	1					1			5						2	1	1	5					
Eurosiberian	*Orchis maculata*			5										1	49	0.022	5	2		1					1											1			1				
European-Mediterranean	*Primula acaulis*														63.4	0.025	3	1	1	1	3				4	3				1				2		1	3	3	3	2		4	
Holartic	*Rubus caesius*													1	51.4	0.015			2	2	2				1					1							2						
European-Mediterranean	*Scilla bifolia*										2				50	0.04		2	2	1									1							1		1					
Eurosiberian	*Stellaria holostea*										1				65.5	0.016	4	2	2	1						1										2		1		1			4	
Holartic	*Urtica dioica*					4	3				4		2		71.4	0.013	1	3	3	2	3					1	1	2	3							1	2			1				
Boreal	*Veratrum album*				1										48	0.046		2	1	1					1	1										2							
European	*Viburnum opulus*			4								1		4	59.6	0.028	3		1	2	1				1									1									1	
Eurosiberian	*Viola mirabilis*														50	0.019			1	1	1				1																	2	
Eurosiberian	*Daphne mezereum*			2	2	1	2					1		5	67.5	0.025	5	4	1	3	4	**72.7**	**0.004**	3	3	4	5	5	3	3												2	
Apennine-Balkan	*Actaea spicata*			3	4	1	4				1	3		1			2	4	3	3	3	**67.7**	**0.01**	5	3	2	3	5	4	1						1				2			1	

Tab. S2 *(continued)*

	Group			**A**	**A**	**A**	**A**			**B**	**B**	**B**	**B**			**C**	**C**	**C**	**C**	**C**			**D**	**D**	**D**	**D**	**D**	**D**	**D**			**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**			**F**	**F**
	Localities			**N Switzerland**	**NW Switzerland**	**NW Switzerland**	**SEFrance**			**NW Switzerland**	**NW Switzerland**	**SE Germany**	**SE Switzerland**			**W Slovenia**	**W Slovenia**	**CE Slovenia**	**CN Slovenia**	**NE Italy**			**NW Italy**	**NE Italy**	**W Croatia**	**SW Slovenia**	**SW Slovenia**	**CW Slovenia**	**CW Slovenia**			**NW Italy**	**C Italy**	**C Italy**	**C Italy**	**CE Italy**	**CE Italy**	**CS Italy**	**CS Italy**			**C Bosnia**	**E Croatia**
	References			**1**	**2**	**3**	**4**			**5**	**6**	**7**	**8**			**9**	**10**	**11**	**12**	**13**			**14**	**15**	**16**	**17**	**18**	**19**	**20**			**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**			**29**	**30**
Chorotype	**Species**	**Indic. Val. gr. A**	**p gr. A**					**Indic. Val. gr. B**	**p gr. B**					**Indic. Val. gr. C**	**p gr. C**						**Indic. Val. gr. D**	**p gr. D**									**Indic. Val. gr. E**	**p gr. E**								**Indic. Val. gr. F**	**p gr. F**		
European-Mediterranean	*Cyclamen purpurascens*													**67.3**	**0.008**	3	3	3	3	2	**71.5**	**0.001**		5	5	5	5	4	5													4	1
Boreal-Tetidic	*Asplenium ruta-muraria*																				**68.6**	**0.001**			3	4	3	1	4													2	
Cosmopolitan	*Asplenium trichomanes*					2											2		1	2	**74.7**	**0.001**		4	5	5	5	5	5						2	1	2					2	
European-Mediterranean	*Calamintha grandiflora*																				**53.1**	**0.004**		1	1	5	5															3	
European	*Calamagrostis varia*																		1		**81.9**	**0.001**	2	2	2	1	2		4			1											
European	*Cardamine enneaphyllos*															3	3	2	1		**70**	**0.002**		2	3	4	4	5	5						2	2	2	2					
European-Mediterranean	*Clematis vitalba*												1							2	**64.9**	**0.01**	5	3	4	2	3		2	57.5	0.03	5	1	2	1	2	3		2			1	
European-Mediterranean	*Fraxinus ornus*																				**86**	**0.001**	4	3	5	4	3	4	5				1	1		4	2	2				5	
Eurosiberian	*Lonicera xylosteum*			5	4	3				2			5			3	3	2	2	3	**68.1**	**0.01**	5	4	2	4	4	3	4			2	1		2	1	2						
Holartic	*Melica nutans*			5			1							57.1	0.05	3	2		2	2	**62.1**	**0.009**	3	4	1		1	1	2														
European	*Moehringia muscosa*					2	2											1			**51.9**	**0.005**		1		4	5		5														
European	*Ostrya carpinifolia*																		1	1	**77.8**	**0.002**	5	4	3	5	5	5	5			4	5	4	2	1	3	4				5	
Cosmopolitan	*Polypodium vulgare*					1												2		2	**77.5**	**0.001**		2	5	5	5	4	5						1	1	2						
European-Mediterranean	*Rosa arvensis*									1			1			2				2	**64.8**	**0.009**	2	2	5	2	3		3			2			2	1	2		3			2	
Apennine-Balkan	*Sesleria autumnalis*																				**48.9**	**0.006**				2	1	1	5													5	
Holartic	*Solidago virgaurea*				3		1						2							2	**69.8**	**0.002**		4	3	3	4	1	1			1	1			1	1						
European-Mediterranean	*Sorbus aria*			4	2	2	3													2	**72.8**	**0.004**	3	3	5	4	2	1	4			5	3		3	1					2	
European	*Tanacetum corymbosum*																				**40.4**	**0.008**	3	4	3																2	
European	*Tilia platyphyllos*			2		3				2						1	1	2	1	1	**72.4**	**0.002**	5	4	5	5	5	3	5				2		2	5	3	5	5			1	4
European	*Valeriana tripteris*																				**71.4**	**0.001**	4	2	3			1	1														
Eurosiberian	*Veratrum nigrum*																				**42.9**	**0.009**		2				5	5														
Eurosiberian-Tetidic	*Vincetoxicum hirundinaria*																				**47.5**	**0.007**		1	2			1	2													4	
European-Mediterranean	*Arabis turrita*																			1	50.5	0.013		2			1	1	3							1			1			
Eurosiberian	*Campanula rapunculus*																				37.2	0.022		1				1	4													3	
European	*Carex digitata*				2								3			2	2	2	3	2	67.7	0.018		4	5	3	4	3	4				1			1	2		1				2
Boreal-Tetidic	*Cardamine impatiens*			1												1	1	1			43.8	0.042		1		1	2	2				1		1								
Boreal-Tetidic	*Ceterach officinarum*																				35.6	0.046			1			1	4					2							2	
European	*Cornus mas*																				60.4	0.011		1	3	2	1	4	5	53.4	0.032	5	1	5		4	2		1		4	
Balkan	*Corydalis ochroleuca*																				42.9	0.011			1	5	5															
Cosmopolitan	*Cystopteris fragilis*					3	4										1				52.3	0.021		1	3	2	3	1						3	1							
European-Mediterranean	*Euonymus latifolius*												1				1	1		2	58.1	0.047		1	4	1	3	4	3						2	3	5	4	4			2	
Balkan	*Euonymus verrucosus*																	1	1		47.5	0.027			2	2	1		1										2			
European	*Geranium nodosum*																				43.8	0.023	5	2			1	1				3	5			1						
European-Mediterranean	*Hypericum montanum*															1					35.6	0.049	3	1	2							2				1						
European-Mediterranean	*Laburnum alpinum*																				50.5	0.011		1	1			1	4				2				1					
Apennine-Balkan	*Rhamnus fallax*																1				41.3	0.017			1	4	3																
European-Mediterranean	*Ruscus aculeatus*																				35.1	0.05		1				5	5							3	3		2				
European	*Salvia glutinosa*			5												1	4	3	4	4	65	0.025	3	4	3	4	4	2	2			3			2	1	2	1	2			3	4
Holartic	*Solanum dulcamara*																				42.9	0.011			1	5	4																
Boreal	*Sorbus aucuparia*				3	1	2			1		2	1						1		56.8	0.02	1	1	2	5	4																
European-Tetidic	*Taxus baccata*																				50.3	0.028		1	5			2	1			1	1			1			1			
European	*Veronica urticifolia*			3			3										1			2	41.1	0.05	1	3	1				2														
European-Mediterranean	*Vinca minor*																1	1	3		37.2	0.03		2				5	3													
Apennine-Balkan	*Acer obtusatum*																								1					**69.4**	**0.001**		4	5	5	4	5		4			5	
Alpine-Apennine	*Cardamine kitaibelii*																													**50**	**0.002**				2	1	1		2				
European-Tetidic	*Cephalanthera damasonium*															1														**45.8**	**0.007**		1		1	1			1				
European-Mediterranean	*Chaerophyllum temulum*																													**62.5**	**0.001**		1		3	1	1		1				
European	*Crataegus laevigata*																	1						1				2		**56.2**	**0.001**			4	3	1	3		2				

Tab. S2 *(continued)*

	Group			**A**	**A**	**A**	**A**			**B**	**B**	**B**	**B**			**C**	**C**	**C**	**C**	**C**			**D**	**D**	**D**	**D**	**D**	**D**	**D**			**E**	**E**	**E**	**E**	**E**	**E**	**E**	**E**			**F**	**F**
	Localities			N Switzerland	NW Switzerland	NW Switzerland	SEFrance			NW Switzerland	NW Switzerland	SE Germany	SE Switzerland			W Slovenia	W Slovenia	CE Slovenia	CN Slovenia	NE Italy			NW Italy	NE Italy	W Croatia	SW Slovenia	SW Slovenia	CW Slovenia	CW Slovenia			NW Italy	C Italy	C Italy	C Italy	CE Italy	CE Italy	CS Italy	CS Italy			C Bosnia	E Croatia
	References			1	2	3	4			5	6	7	8			9	10	11	12	13			14	15	16	17	18	19	20			21	22	23	24	25	26	27	28			29	30
Chorotype	**Species**	**Indic. Val. gr. A**	**p gr. A**					**Indic. Val. gr. B**	**p gr. B**					**Indic. Val. gr. C**	**p gr. C**						**Indic. Val. gr. D**	**p gr. D**								**Indic. Val. gr. E**	**p gr. E**								**Indic. Val. gr. F**	**p gr. F**		
European-Mediterranean	*Daphne laureola*																								2			4	5	**76.6**	**0.001**	3	2		4	4	5	5	5				
Apennine	*Digitalis micrantha*																						3							**41**	**0.01**	2			1	1			1				
European	*Festuca heterophylla*																			1				2						**69.6**	**0.001**	1	2	2	3	3	3						
Holartic	*Galium aparine*																													**60.3**	**0.001**		1	4	3	1		1				1
Apennine	*Helleborus bocconei*																			2										**57.3**	**0.003**		1	3	2	1	1						
European-Mediterranean	*Helleborus foetidus*																													**50**	**0.003**	1				1	2		1				
European-Mediterranean	*Ilex aquifolium*																													**83.5**	**0.001**	1	1		1	2	2	5	3			2	
Eurosiberian	*Lathyrus vernus*					1				3							1		1	4	58.5	0.038	1	4	3		2	5	2	**58**	**0.003**	2				2		3	4			2	3
Apennine	*Lilium bulbiferum* ssp. *croceum*																			1				1						**58.3**	**0.001**			2	2	3	1		2				
European	*Luzula sylvatica*											1																		**46.6**	**0.009**		1		1		2		1				
European-Mediterranean	*Melica uniflora*											2						2						2	2	1	1	2	1	**83**	**0.009**	5	5	1	3	4	5	4	5			2	3
Apennine	*Pulmonaria apennina* (incl. *P. picta*)																													**62.5**	**0.001**		1			2	1	2	2				
European-Mediterranean	*Quercus cerris*																								1					**60.1**	**0.003**		2		1	2	1		3				
European-Mediterranean	*Sanicula europaea*									2	2		2			2	2		2	1				1						**64.2**	**0.004**	2	2		1	3	3	3	4			2	2
European-Mediterranean	*Viola alba* ssp. *dehnhardtii*																													**62.5**	**0.001**			1	2	4	2		3				
European-Mediterranean	*Viola reichenbachiana*				4					2	2	4	5			3	2	1	3	3			2	2				2		**64.4**	**0.008**	5	2	4	3	4	3	2	4			2	4
European-Mediterranean	*Asperula taurina*			3																1			4	2						45.8	0.039	4			1		2	5	3			5	
European	*Cardamine bulbifera*															5	4	3	4				1	1			1	3	2	53.2	0.048		5		3	4	3	5	4				3
Eurosiberian-Tetidic	*Epipactis helleborine*				2																			1						49.6	0.019	2	1			2	1		1				2
Eurosiberian-Tetidic	*Geum urbanum*				2					2	2	2	3			3	2		1	2				1						58.3	0.039	3		4	3	1	2	2	1				2
European-Mediterranean	*Glechoma hirsuta*																	2												34	0.042			5	1		1						
European	*Hieracium gr. murorum*				2																				5	2	1		1	47.1	0.05	2	1		1	2	1		1			2	
European-Mediterranean	*Ornithogalum pyrenaicum*																							1						34.4	0.029				1	2			1				
European-Mediterranean	*Prunus spinosa*																						2							32.7	0.044	3		1			1						
European-Tetidic	*Euphorbia amygdaloides*				2						1	2				4	2	1	1					2	1			1				1		1	3	2		2	**81.2**	**0.006**	3	5
Eurosiberian	*Tilia cordata*																			1				3				2	1											**92.3**	**0.008**	4	2
Boreal	*Veronica chamaedrys*																								2			1												**94.9**	**0.004**	2	2
Eurosiberian	*Glechoma hederacea*									2	1			64	0.012	2		2	1	3					2															84.3	0.028	2	3
European-Mediterranean	*Ajuga reptans*				5						1		4			2									1											2	2		1	79.5	0.044	2	3
European-Mediterranean	*Crataegus monogyna*															4		1	1	3				1		1		2	1				2		2	3	2		1	77.8	0.037	2	4
Cosmopolitan	*Pteridium aquilinum*																	1															1			2			2	90.3	0.018	2	2
European-Mediterranean	*Acer pseudoplatanus*			5	5	5	5			5	5	5	5			4	5	5	5	4			5	5	3	4	5	5	2			5	4	2	5	4	5	5	4			2	2
European	*Fagus sylvatica*			3	5	2	1			5	3	4	5			5	5	3	4	2			4	4	5	2	5	3	2			3	4	4	4	1	3	3	4			3	5
European-Mediterranean	*Mercurialis perennis*			1	5	5	1			5	4		5			5	5	4	1	3			1	4	5	1	1	4	4			1	5	1	4	4	4	5	3				2
European	*Lamiastrum galeobdolon*			5	5	4	5				5	5	5			5	4	4	5	4			2	4	3	4	5	5	4			2	1	5	1			2				3	5
European-Mediterranean	*Corylus avellana*			5	5	4				5		2	4			5	4	5	5	5			5	5	3	5	5	5	2			5	2		4	5	4		5				1
European-Tetidic	*Geranium robertianum*				5	5	5			3		3	4				2	1	1	4				2	3	5	5	4	3			2	2	5	5	1	2	4	3			1	
European-Mediterranean	*Mycelis muralis*			2	2	3	4			1						1	2	1		2				1	5	5	5	3	4			3	2	4	2	2	3	4	2			3	3
European-Mediterranean	*Campanula trachelium*			4									2			3	2	2	2	2			1	2	4	2	1	2	1			4	2	1	3	2	3	1	2			3	2
European	*Ulmus glabra*			2	3	2	1				3	2	5			1	4	3	3	2				2	2		3	3	1				2		1	1	3	4	3			3	
European	*Acer campestre*									3			1			4	3	2	4	4				4	1	3	3	4	1			5	2	5	4	2	4		3				4
European-Mediterranean	*Acer platanoides*					1				3	1	3	3			2	3	2	2					1	3		1	3	3				1		3	1	2	4			2	4
European-Mediterranean	*Hedera helix*				2	2				4			5			1				5				4	4	5	3	4	2			4	3		2	5	4	3	5			4	3
European-Tetidic	*Phyllitis scolopendrium*				2	5	5			2							3	2	2	3				3	4	4	5	5	4						1	2	3	5	1			2	
Eurosiberian-Tetidic	*Fragaria vesca*			4	2								2						1	2			3	2	5	1	1		1			3		5	2	1	1		1			2	1
European-Tetidic	*Polystichum aculeatum*				5	3	5			4		1					2	4	1	1				2	2	1	4	2	3				1		3			1				2	
European-Mediterranean	*Sambucus nigra*			3	2	3				5			5				3	5	4	5				2	1	2	5	5	4						1	1	3					3
European	*Senecio ovatus*			5	4		4			4		2				3	4	3	3	1				4	3	3	2	2	2				4		2							1	

Tab. S2 *(continued)*

	Group			A	A	A	A			B	B	B	B			C	C	C	C	C			D	D	D	D	D	D	D			E	E	E	E	E	E	E	E			F	F
	Localities			N Switzerland	NW Switzerland	NW Switzerland	SEFrance			NW Switzerland	NW Switzerland	SE Germany	SE Switzerland			W Slovenia	W Slovenia	CE Slovenia	CN Slovenia	NE Italy			NW Italy	NE Italy	W Croatia	SW Slovenia	SW Slovenia	CW Slovenia	CW Slovenia			NW Italy	C Italy	C Italy	C Italy	CE Italy	CE Italy	CS Italy	CS Italy			C Bosnia	E Croatia
	References			1	2	3	4			5	6	7	8			9	10	11	12	13			14	15	16	17	18	19	20			21	22	23	24	25	26	27	28			29	30
Chorotype	**Species**	**Indic. Val. gr. A**	**p gr. A**					**Indic. Val. gr. B**	**p gr. B**					**Indic. Val. gr. C**	**p gr. C**						**Indic. Val. gr. D**	**p gr. D**									**Indic. Val. gr. E**	**p gr. E**								**Indic. Val. gr. F**	**p gr. F**		
Boreal	*Milium effusum*			2	2	2	1				3	2	3			5	4		2	2						1	1							1	1	1		1				1
European	*Allium ursinum*				1	1				5	2		4			5	4	2	3								3	1						2	1	1	1	2				
European-Mediterranean	*Tamus communis*																	2	2	2			1	3	2			2	2			2	2		1	4	2		4			2	2
European	*Euphorbia dulcis*															1		1	2	3			5	2	3			1	1			5			3	2	1					2
Boreal-Tetidic	*Heracleum sphondylium*				3	1	1			1		3					2	3	2				2	1	2			1					1		2							
Eurosiberian	*Lilium martagon*			3		1							3				2	2						2	2			1	2				4		4	2	1		2				
European-Mediterranean	*Prunus avium*									1			3					2	1	2				2	2			1				1	1		1	2			1			3
European	*Rubus hirtus* (incl. *R. bellardii*)																2	3	2	2				1		4	3	2	1					3	1	1		5			3	
European	*Cornus sanguinea*			2									2					2	2	3			2		1			1	2				1		1	1						2	
European-Tetidic	*Polystichum setiferum*																2	2	1	1					2			5	5				1			2	4	5	3			2
European	*Saxifraga rotundifolia*					2	4										1			2				1	1	4	2						2		3		4	3	3				
European-Mediterranean	*Symphytum tuberosum*															5	4	5	5	2				4	2			3	1				3		1	2						2
European	*Melittis melissophyllum*																			1			5	2	3				4			4				2	2		1			3	2
Eurosiberian-Tetidic	*Moehringia trinervia*				2						2		1				2		1						5				1				1	1	1	1	1					
European	*Ligustrum vulgare*												1					1	1	1					1				1							3	1		4			2	
European	*Galanthus nivalis*									4								1		1				1				5	4						1		2		3				
Eurosiberian	*Silene dioica*				3	1				1		2						2						2				1					2		1							
European	*Staphylea pinnata*																	2							3			5	5				1			2	1				1	2
European	*Stellaria nemorum*				1		2					2				1	4			2				1									1		2							
European-Mediterranean	*Bromus ramosus /benekenii*				1					2			1											1	2												1	3	1				
Eurosiberian	*Festuca altissima*				5	2				2		2						1							3			4	2														
Boreal-Tetidic	*Neottia nidus-avis*			2	1											4			1					1								1			1			2				
European	*Anemone trifolia*																		5	4				4				4	2				4			1						
European	*Aremonia agrimonoides*															2	1							1		1	1												1			1	
European-Mediterranean	*Cruciata glabra*															4								1	1										1	2	1						3
SE European	*Helleborus odorus*																2	2	4					3				3	4													2	
European	*Lathyrus venetus*																									2	1						3		3	2	4		2				
European	*Lonicera caprifolium*																	1	3	1				1									1			3			3				
European	*Asparagus tenuifolius*																			2			5					1	3			5										2	
Cosmopolitan	*Dactylis glomerata* s.l.																							2				1	1			1	1		1								
European	*Laburnum anagyroides*																						5	2								4			1	1		4				
Holartic	*Rhamnus catharticus*															1								1	3				1			1									2	
European	*Ruscus hypoglossum*																	1										4	1							1			3				2
European	*Thalictrum aquilegifolium*			4	1															2				1											2						2	
European	*Viburnum lantana*												2						1					1	3				2			1										
Holartic	*Asplenium viride*				1	2												2							1																2	
European	*Geranium phaeum*															2	2		1	2																							1
European-Mediterranean	*Scutellaria columnae*																																		1	1	1	2	1				
European	*Cardaminopsis arenosa*															2									4			2	1														
European-Mediterranean	*Castanea sativa*																	1						1					1							4							
Holartic	*Clinopodium vulgare*																								1							1				1						4	
Holartic	*Convallaria majalis*																			1				1	4																		2
European	*Eupatorium cannabinum*					1							1					1							4																		
-	*Juglans regia*																			2								2	1													4	
Apennine-Balkan	*Knautia drymeia*																		1					1	3																		2
European	*Leucojum vernum*									5						4	4								2																		
European-Mediterranean	*Omphalodes verna*																1		4					1	1																		
European	*Pulmonaria obscura*									2			2										5									5											

Tab. S2 *(continued)*

	Group			A	A	A	A				B	B	B	B			C	C	C	C	C			D	D	D	D	D	D	D			E	E	E	E	E	E	E	E			F	F
	Localities			N Switzerland	NW Switzerland	NW Switzerland	SEFrance				NW Switzerland	NW Switzerland	SE Germany	SE Switzerland			W Slovenia	W Slovenia	CE Slovenia	CN Slovenia	NE Italy			NW Italy	NE Italy	W Croatia	SW Slovenia	SW Slovenia	CW Slovenia	CW Slovenia			NW Italy	C Italy	C Italy	C Italy	CE Italy	CE Italy	CS Italy	CS Italy			C Bosnia	E Croatia
	References			1	2	3	4				5	6	7	8			9	10	11	12	13			14	15	16	17	18	19	20			21	22	23	24	25	26	27	28			29	30
Chorotype	**Species**	**Indic. Val. gr. A**	**p gr. A**					**Indic. Val. gr. B**	**p gr. B**						**Indic. Val. gr. C**	**p gr. C**						**Indic. Val. gr. D**	**p gr. D**									**Indic. Val. gr. E**	**p gr. E**								**Indic. Val. gr. F**	**p gr. F**		
European-Mediterranean	*Quercus pubescens*																								1				2			1				2							
European	*Quercus robur*													2					1						3																		2
SE European	*Scopolia carniolica*																		2	1					1			2															
European-Mediterranean	*Sorbus torminalis*																								1								1						2			2		
European-Mediterranean	*Ulmus minor*																				2			1												1							4
European	*Valeriana officinalis*				2		2														2						2																
Eurosiberian	*Vicia sepium*																							1									1		1				1				

The numbers in the columns are the indicator values for statically significant species in each group and the statistical significance of the highest indicator value (IV_{max}) using a Monte Carlo method (the species significant at $P < 0.01$ are indicated in bold). Only species present in more than 3 relevés are shown. References: 1 – Beger (1922; *Acereto-Ulmetum* Beger 1922, 6 rel.); 2 – Moor (1952; *Arunco-Aceretum* Moor 1952, 10 rel.); 3 – Moor (1952; *Phyllitido-Aceretum* Moor 1945, 26 rel.); 4 – Clot (1990; *Ulmo-Aceretum* Issler 1925, 10 rel.); 5 – Clot (1990; *Corydalido-Aceretum* Moor 1938, 8 rel.); 6 – Moor (1938; *Acereto-Fraxinetum* Tüxen 1937, 10 rel.); 7 – Clot (1990; *Lunario-Aceretum* Schlütter in Grüneberg and Schlütter 1957, 8 rel.); 8 – Clot (1990; *Aceri-Fraxinetum caricetosum pendulae* Etter 1947, 13 rel.); 9 – Marinček (1996; *Hacquetio-Fraxinetum* Marinček in Wallnöfer et al. 1993 variant with *Dentaria pentaphyllos*, 15 rel.); 10 – Košir and Marinček (1999; *Hacquetio-Fraxinetum*, 18 rel.); 11 – Košir (2002; *Hacquetio-Fraxinetum*, 8 rel.); 12 – Košir (2002; *Hacquetio-Fraxinetum* variant with *Dentaria pentaphyllos*, 10 rel.); 13 – Poldini and Nardini (1993; *Hacquetio-Fraxinetum*, 9 rel.); 14 – Clot (1990; *Acereto-Coryletum avellanae tilietosum* Hierholzer 1957, 13 rel.); 15 – Lasen and Urbinati (1995 – *Acer-Fraxinus-Tilia communities*, 16 rel.); 16 – Glavač (1958 – *Tilieto-Taxetum* Glavač 1958, 15 rel.); 17 – Accetto (1991; *Corydalido ochroleucae-Aceretum hieracietosum sylvaticae* Accetto 1991, 5 rel.); 18 – Accetto (1991; *Corydalido ochroleucae-Aceretum athyrietosum* Accetto 1991, 22 rel.); 19 – Dakskobler (1999; *Hacquetio-Fraxinetum* variant with *Anemone trifolia*, 16 rel.); 20 – Dakskobler (1999; *Saxifrago petraeae-Tilietum platyphylli* Dakskobler 1999, 10 rel.); 21 – Clot (1990; *Aceri-Coryletum carpinetosum* Hierholzer 1957, 10 rel.); 22 – Angiolini et al. (2005) and unpublished rel. (*Ornithogalo-Aceretum geranietosum nodosi* Angiolini et al. 2005, 14 rel.); 23 – Angiolini et al. (2005; *Glechomo-Aceretum* Angiolini et al. 2005, 5 rel.); 24 – Allegrezza (2003), Angiolini et al. (2005) and unpublished rel. (*Aceretum obtusati-pseudoplatani aconitetosum neapolitani* Allegrezza 2003, *Ornithogalo-Aceretum* Taffetani 2000, 29 rel.); 25 – Taffetani (2000), Angiolini et al. (2005) and unpublished rel. (*Ornithogalo-Aceretum*, 16 rel.); 26 – Pedrotti (1982), Biondi et al. (2002), Allegrezza (2003) and unpublished rel. (*Aceri-Ulmetum* Pedrotti 1982, *Aceretum obtusati-pseudoplatani* Biondi et al. 2002, *Aceretum obtusati-pseudoplatani asperuletosum taurinae* Allegrezza 2003, 30 rel.); 27 – Paura and Cutini (2006; *Aro lucani-Aceretum lobelii* Paura and Cutini 2006, 6 rel.); 28 – Pirone et al. (2005) and unpublished rel. (*Aceretum obtusati-pseudoplatani aceretosum lobelii* Pirone et al. 2005, 14 rel.); 29 – Stefanovic (1979; *Aceri-Tilietum mixtum* Stef. 1974, 23 rel.); 30 – Pelcer (1979; *Carici pilosae-Carpinetum* Neuhäusl and Neuhäuslová-Novotná 1964 facies with *Tilia tomentosa*, 20 rel.).