

**Table S8.** Simplified synoptic table of the associations included in *Dioscoreo-Ulmion*. Species with frequency < 30 % are not reported in the table, except those with phytosociological significance. Differential species of associations are reported in bold. 1: *Rhamno catharticae-Ulmetum minoris* ass. nov. (Tab. 9 in this paper); 2: *Lamio orvalae-Ulmetum minoris* (Poldini et al. 2017); 3: *Polygonato multiflori-Quercetum roboris* (Sartori 1984; Assini 2011a); 4: *Vinco minoris-Ulmetum minoris* ass. nov. (Tab. 10 in this paper); 5: *Salvio glutinosae-Quercetum roboris* ass. nov. (orig. Tab. 1 rels. 1-7 sub “Boschi igrofili a *Populus alba*” by Cavani et al. 1981). Cl: species of *Alno glutinosae-Populetea albae*; All: species of *Dioscoreo-Ulmion minoris*; d ass: differential species of association.

Number of column		1	2	3	4	5
Number of relevés		8	7	42	35	7
<b>Species of <i>Rhamno catharticae-Ulmetum minoris</i></b>						
d ass	<i>Rhamnus cathartica</i> L.	85.7	28.6	.	8.6	.
Al	<i>Aristolochia clematitis</i> L.	78.6	.	14.3	2.9	28.6
Cl	<i>Clematis viticella</i> L.	71.4	.	.	.	.
d ass	<i>Bidens frondosa</i> L.	64.3	.	.	.	.
d ass	<i>Campanula trachelium</i> L. subsp. <i>trachelium</i>	64.3	.	.	.	.
Al	<i>Leucojum aestivum</i> L.	64.3	28.6	.	.	.
d ass	<i>Frangula alnus</i> Mill. subsp. <i>alnus</i>	57.1	.	2.4	8.6	.
d ass	<i>Clematis recta</i> L.	50.0	14.3	.	.	.
d ass	<i>Prunella vulgaris</i> L. subsp. <i>vulgaris</i>	50.0	.	4.8	.	.
d ass	<i>Galium palustre</i> L. s.l. (subsp. <i>elongatum</i> (C.Presl) Lange p. max p.)	42.9	.	4.8	.	.
d ass	<i>Ranunculus repens</i> L.	35.7	.	.	.	.
d ass	<i>Lysimachia vulgaris</i> L.	28.6	.	.	.	.
d ass	<i>Carex elata</i> All. subsp. <i>elata</i>	28.6	.	.	.	.
<b>Species of <i>Lamio orvalae-Ulmetum minoris</i></b>						
	<i>Geum urbanum</i> L.	35.7	85.7	.	2.9	.
Al	<i>Lamium orvala</i> L.	7.1	85.7	.	2.9	.
	<i>Carex sylvatica</i> Huds.	28.6	71.4	7.1	2.9	.
Cl	<i>Circaea lutetiana</i> L. subsp. <i>lutetiana</i>	.	57.1	7.1	2.9	.
Cl	<i>Arum italicum</i> Mill. subsp. <i>italicum</i>	7.1	57.1	.	.	.
Cl	<i>Alliaria petiolata</i> (M.Bieb.) Cavara & Grande	.	57.1	.	2.9	.
	<i>Poa sylvicola</i> Guss.	21.4	57.1	.	2.9	.
	<i>Potentilla indica</i> (Andrews) Th.Wolf	.	57.1	.	.	.
Cl	<i>Bryonia dioica</i> Jacq.	.	42.9	.	11.4	.
	<i>Parietaria officinalis</i> L.	.	42.9	.	14.3	.
Cl	<i>Carex pendula</i> Huds.	7.1	42.9	.	.	.
	<i>Loncomelos pyrenaicus</i> (L.) L.D.Hrouda	.	42.9	.	.	.
	<i>Phalaris arundinacea</i> L. subsp. <i>arundinacea</i>	.	42.9	.	.	.
	<i>Allium ursinum</i> L.	.	42.9	.	.	.
	<i>Anemonoides ranunculoides</i> (L.) Holub	.	42.9	.	2.9	.
<b>Species of <i>Polygonato multiflori-Quercetum roboris</i></b>						
	<i>Convallaria majalis</i> L.	.	.	69.0	.	.
	<i>Cornus mas</i> L.	.	.	57.1	2.9	.
Al	<i>Asparagus tenuifolius</i> Lam.	21.4	14.3	45.2	.	14.3
	<i>Prunus padus</i> L.	.	14.3	45.2	.	.
	<i>Malus sylvestris</i> (L.) Mill. (incl. <i>M. domestica</i> (Borkh.) Borkh.)	.	.	42.9	.	14.3
	<i>Galeopsis pubescens</i> Besser	.	.	42.9	5.7	.
	<i>Melica nutans</i> L.	.	.	42.9	.	.
<b>Species of <i>Vinco minoris-Quercetum roboris</i></b>						
Al	<i>Vinca minor</i> L.	7.1	14.3	16.7	51.4	14.3
<b>Species of <i>Salvio glutinosae-Quercetum roboris</i></b>						
Cl	<i>Populus alba</i> L.	.	14.3	26.2	5.7	100.0
	<i>Neottia ovata</i> (L.) Bluff & Fingerh.	.	14.3	.	2.9	71.4
	<i>Salvia glutinosa</i> L.	.	.	11.9	22.9	71.4
	<i>Aegonychon purpureoeruleum</i> (L.) Holub	.	.	.	.	57.1
<b>Species of <i>Dioscoreo-Ulmion</i></b>						
	<i>Dioscorea communis</i> (L.) Caddick & Wilkin	14.3	42.9	38.1	65.7	71.4
	<i>Lonicera caprifolium</i> L.	7.1	28.6	19.0	25.7	.
	<i>Primula vulgaris</i> Huds. subsp. <i>vulgaris</i>	.	57.1	.	.	85.7
<b>Species of <i>Alno glutinosae-Populetea albae</i></b>						
	<i>Ulmus minor</i> Mill. subsp. <i>minor</i>	100.0	100.0	59.5	100.0	85.7
	<i>Populus nigra</i> L.	85.7	14.3	28.6	37.1	51.1
	<i>Rubus caesius</i> L.	64.3	85.7	52.4	91.4	42.9
	<i>Quercus robur</i> L. subsp. <i>robur</i>	14.3	71.4	100.0	88.6	100.0
	<i>Humulus lupulus</i> L.	42.9	42.9	.	5.7	14.3
	<i>Ficaria verna</i> Huds. s.l.	21.4	42.9	.	5.7	14.3
	<i>Brachypodium sylvaticum</i> (Huds.) P.Beauv.	71.4	100.0	21.4	11.4	.
	<i>Urtica dioica</i> L. s.l.	21.4	28.6	9.5	8.6	.
	<i>Viburnum opulus</i> L.	28.6	.	11.9	11.4	.
	<i>Fraxinus angustifolia</i> Vahl subsp. <i>oxycarpa</i> (M.Bieb. ex Willd.) Franco & Rocha Afonso	92.9	71.4	.	.	.
<b>Other species</b>						
	<i>Crataegus monogyna</i> Jacq.	100.0	71.4	81.0	88.6	57.1
	<i>Cornus sanguinea</i> L. s.l. (incl. subsp. <i>hungarica</i> (Kárpáti) Soó and subsp. <i>australis</i> (C.A.Mey.) Jáv.)	92.9	57.1	42.9	100.0	42.9
	<i>Ligustrum vulgare</i> L.	64.3	71.4	28.6	91.4	57.1
	<i>Euonymus europaeus</i> L.	57.1	85.7	71.4	17.1	14.3
	<i>Hedera helix</i> L. subsp. <i>helix</i>	42.9	71.4	45.2	57.1	57.1
	<i>Clematis vitalba</i> L.	21.4	14.3	4.8	48.6	28.6
	<i>Robinia pseudoacacia</i> L.	14.3	57.1	33.3	62.9	42.9
	<i>Limniris pseudacorus</i> (L.) Fuss	28.6	.	.	11.4	14.3
	<i>Acer campestre</i> L.	21.4	100.0	26.2	14.3	.
	<i>Galium aparine</i> L.	7.1	71.4	2.4	22.9	.
	<i>Glechoma hederacea</i> L.	21.4	42.9	19.0	17.1	.
	<i>Prunus spinosa</i> L. subsp. <i>spinosa</i>	28.6	14.3	2.4	14.3	.
	<i>Equisetum arvense</i> L.	28.6	14.3	.	8.6	.
	<i>Fraxinus ornus</i> L. subsp. <i>ornus</i>	28.6	14.3	.	8.6	.
	<i>Viola reichenbachiana</i> Jord. ex Boreau (incl. <i>V. riviniana</i> Rchb. subsp. <i>riviniana</i> )	57.1	57.1	21.4	.	.
	<i>Ruscus aculeatus</i> L.	50.0	28.6	.	.	.
	<i>Sambucus nigra</i> L.	.	100.0	9.5	37.1	28.6
	<i>Corylus avellana</i> L.	.	57.1	97.6	37.1	85.7
	<i>Alnus glutinosa</i> (L.) Gaertn.	.	28.6	14.3	17.1	14.3
	<i>Symphytum tuberosum</i> L. subsp. <i>angustifolium</i> (A.Kern.) Nyman	.	28.6	9.5	.	42.9
	<i>Paris quadrifolia</i> L.	.	14.3	9.5	.	28.6
	<i>Polygonatum multiflorum</i> (L.) All.	.	71.4	64.3	.	57.1
	<i>Anemonoides nemorosa</i> (L.) Holub	.	28.6	28.6	5.7	28.6
	<i>Aegopodium podagraria</i> L.	.	28.6	.	20.0	.
	<i>Asarum europaeum</i> L. s.l. (incl. subsp. <i>caucasicum</i> (Duch.) Soó)	.	.	2.4	34.3	71.4
	<i>Symphytum officinale</i> L.	.	.	19.0	17.1	57.1
	<i>Viburnum lantana</i> L.	.	.	2.4	51.4	57.1
	<i>Viola canina</i> L. subsp. <i>canina</i>	.	.	4.8	22.9	42.9
	<i>Ornithogalum divergens</i> Boreau	14.3	.	.	2.9	28.6
	<i>Isopyrum thalictroides</i> L.	.	.	.	.	42.9