

Electronic Appendix 1. List of *Allium oleraceum* localities with geographical coordinates and basic descriptive data. DNA-ploidy level of plants was assessed using flow-cytometry. Number of analysed individuals with respective ploidy level within a population is shown. Ploidy level records labelled with asterisks were also determined by direct counting from mitotic cells. Habitat types were coded by number 1–7 as follows: 1 = rock, 2 = dry grasslands, 3 = mesic & wet grassland, 4 = (semi)natural forest, 5 = scrub, 6 = planted *Robinia pseudacacia* forest, 7 = arable field & field margins. In the case of population inhabiting two or more adjacent habitats, codes of respective habitats are mentioned, separated by comma. Variable 'anthropic impact' was coded by numbers 0 and 1 as follows: 0 = 'human-impacted' vegetation; 1 = 'natural' vegetation. See Materials and methods for explanations.

Abbreviations of collectors: MD – Martin Duchoslav, JH – Jiří Hadinec, MJ – Michaela Jandová, AJ – Alena Jírová, FK – František Krahulec, AK – Anna Krahulcová, PK – Pavel Kovář, JL – Jan Lepš, JM – Jan Mládek, OR – Ota Rauch, LŠ – Lenka Šafařová, BT – Bohumil Trávníček.

Nr.	DNA-ploidy level				District/village	Description	Geographical coordinates		Altitude (m)	Habitat type	Anthropic impact	Collectors	Year of collection
	2n~3x	2n~4x	2n~5x	2n~6x			Latitude (N)	Longitude (E)					
1	3				Vranov n. T./ Banské	scrub at the road in direction to Herľany, ca 1.5 km SW of the village	48°49'12"	21°33'30"	454	5	0	BT	2003
2		7			Rimavská Sobota/Gemerský Jablonec	<i>Prunus spinosa</i> scrub on the old field and steppe on S slopes of the Matrač hill, 0.8 km WNW of the village	48°11'00"	19°58'00"	250	2,5	0	BT	2003
3		2			Nové Mesto n.V./Zemianské Podhradie	grassy fringe of forests and shrubs on W and SW slopes of the Lysica hill (501.7 m) ESE of the village	48°50'13"	17°49'53"	460	2	1	BT	2003
4		2			Trenčín/Trenčianské Teplice	wood edge and small rocky place at the path N-NE from the Drieňová hill (622.7 m), NE of the village	48°54'00"	18°10'00"	530	2,4	1	BT	2003
5		18	2		Pezinok/Pezinok	old vineyards and orchards on slopes above the hospital, fringe community of oak-hornbeam forest on acid soil	48°17'56"	17°15'17"	160	4,7	0	MD&LŠ	2004
6		27*			Pezinok/Svätý Jur	abandoned cherry orchard above the village and <i>Robinia</i> scrub between vineyards	48°15'04"	17°12'17"	204	3,6	0	MD&LŠ	2004
7		28			Pezinok/Svätý Jur	<i>Robinia</i> scrub between vineyards above the village	48°15'00"	17°12'00"	201	6	0	MD&LŠ	2004
8		13			Pezinok/Svätý Jur	forests at the foothill of Hájna hora	48°15'00"	17°11'00"	344	4	1	MD&LŠ	2004
9		32			Levice/Žembovice	1 km of the settlement of Tlstý Vrch, oak-hornbeam wood and its margin along the road, rocks above it	48°16'46"	18°47'48"	370	1,4	1	MD&LŠ	2004
10		3	10		Levice/Nová Dedina-Gondovo	1 km NNW of Gondovo village, balk between vineyards under the wood, scrub with <i>Rosa</i> sp., <i>Ligustrum vulgare</i>	48°17'52"	18°39'27"	223	5	0	MD&LŠ	2004
11		19			Žarnovica/Tekovská Breznica	1.2 km SWS of railway station, rocky places with steppic vegetation with <i>Festuca pseudodalmatica</i>	48°22'00"	18°36'00"	201	1,2	1	MD&LŠ	2004
12		33			Nitra/Štitáre	young ash stand and wood above the village (<i>Quercus cerris</i> , <i>Castanea sativa</i> , <i>Quercus petraea</i>)	48°21'17"	18°09'26"	292	4	1	MD&LŠ	2004

13	21		Topoľčany/Radošina	balk and road margin at the end of the village in direction to Piešťany	48°32'59" 17°55'48"	217	7	0	MD&LŠ	2004	
14	5	6	Trenčín/Chocholná-Velčice	300 m NE of the village, scrub above parking place at the arable field	48°52'00" 17°57'00"	209	5,7	0	MD&LŠ	2004	
15	22		Bytča/Jablonové	Suľovské skály rocks 1.5 km S of the village, margin of pine forest and balk on the field margin, with scattered <i>Prunus spinosa</i>	49°11'00" 18°34'00"	337	7	0	MD&LŠ	2004	
16	2	24	Prievidza/Nitranské Pravno	1.5 km E of the village, under the road No. 519, limestone quarry and rocks overgrown with <i>Robinia</i> and <i>Prunus spinosa</i>	48°52'00" 18°40'00"	412	1,5,6	0	MD&LŠ	2004	
17	10		Banská Bystrica/Banská Bystrica	small oak-hornbeam wood with <i>Arum maculatum</i> , <i>Corydalis cava</i> above the oil station Slovnaft on the N margin of the town	48°46'49" 19°07'25"	388	4	0	MD&LŠ	2004	
18	5		Zvolen/Veľká Lúka	<i>Robinia</i> scrub between arable field and road	48°37'00" 19°10'09"	377	6	0	MD&LŠ	2004	
19	2		Detva/Vígľaš-Pstruša	1.2 km E of the village, scree of the old andesite quarry on the margin of forest (<i>Koelerio-Phleion phleiodis</i>)	48°32'59" 19°19'53"	357	1,4	1	MD&LŠ	2004	
20	3		Rimavská Sobota/Teplý Vrch	protected area Malá obora cca 0.2 W of the village, margin of oak-hornbeam wood with <i>Quercus cerris</i>	48°28'00" 20°05'00"	240	4	1	MD&LŠ	2004	
21	1	2	3	Rožňava/Plešivec	small <i>Robinia</i> wood at the road to Domic, cca 300 m E of the town	48°32'16" 20°24'25"	279	6,7	0	MD&LŠ	2004
22	3		Gelnica/Helcmanovce	hazel scrub on the slope at the village margin, above the road to Prakovce	48°49'54" 20°52'45"	406	5	0	MD&LŠ	2004	
23	8	4	Prešov/Veľký Šariš	hill Šarišský hradný vrch, oak-hornbeam wood on SW slope under the castle	49°02'59" 21°10'50"	532	4	1	MD&LŠ	2004	
24	2	3	Michalovce/Vinné	S slopes of the Viniansky hradný vrch NW of the village, at a tourist path	48°49'09" 21°57'10"	245	1,5	1	MD&LŠ	2004	
25	3		Poprad/Poprad-Kvetnica	Hranovnická dubina wood, above the road to wood, 200 m E of the quarry, wood and rocks	49°00'30" 20°17'22"	790	1,4	1	MD&LŠ	2004	
26	6		Liptovský Mikuláš/Liptovský Hrádok	margins of wood path above the Váh river on foothill of slopes, 1 km W of the village, under rocks	49°02'15" 19°42'04"	650	1,4	0	MD&LŠ	2004	
27	6*		Tvrdošín/Podbiel	pasture on the slope W of the village	49°18'47" 19°29'57"	562	3	0	MD&LŠ	2004	
28	4		Rožňava/Dedinky	grassy slope at the road between the village and Priehrada hotel	48°51'53" 20°23'03"	799	7	0	MD&LŠ	2004	
29	3	4	Rimavská Sobota/Vyšná Pokoradz	1 km E of the village, at the path to the protected area Pokoradzské jazierka, margin of pasture with <i>Prunus spinosa</i>	48°25'11" 20°01'58"	392	5	1	FK&JH&OR	2005	
30	7		Rimavská Sobota/Ostrany	slope above the road 100 m from the northern margin of the village	48°29'46" 20°02'46"	305	7	0	FK&JH&OR	2005	
31	10		Rimavská Sobota/Drienčany	karst area of Drienčanský kras, hill Holý vrch N of the village	48°29'23" 20°03'39"	254	2	1	FK&JH&OR	2005	

32	8	Rimavská Sobota/Drienčany	karst area of Drienčanský kras, Drienčanské krasové jazierko lake W of the village (seasonally flooded grassland, <i>Agropyro-Rumicion</i>)	48°28'59"	20°03'48"	264	3	1	FK&JH&OR	2005	
33	2	Rimavská Sobota/Hostišovce	small steppic island surrounding rocks in forests 2.5 km SE of the village	48°29'27"	20°08'45"	399	2	1	FK&JH	2005	
34	6	Rimavská Sobota/Gemerské Dehtáre	loess slope 1 km N of the village, slope with <i>Bothriochloa ischaemum</i> with penetrating <i>Robinia pseudacacia</i>	48°15'32"	20°02'30"	249	2,6	0	FK&JH	2005	
35	8	Rimavská Sobota/Širkovce	Širkovské sedlo saddle E of the Hôrka hill, steppic grassland	48°16'56"	20°03'49"	332	2	1	FK&JH	2005	
36	36	Komárno/Svätý Peter	top of the Kurta hill, <i>Robinia</i> wood with <i>Acer campestre</i> and <i>Sambucus nigra</i>	47°51'10"	18°19'04"	196	4,6	0	MD	2006	
37	11	Rimavská Sobota/Hostišovce	rocky slopes N of the village, in rock crevices	48°30'12"	20°07'14"	387	1	1	MD	2006	
38	8	6	Brezno/Brezno	rocks and scree above the road No. 66 to Banská Bystrica, 1 km W of the town	48°48'30"	19°36'00"	553	1	1	MD	2006
39	5	Poltár/Selce	0.6 km S of the village, at the cross, balk at the road	48°27'11"	19°52'32"	251	7	0	BT	2006	
40	2	Rimavská Sobota/Hubovo	300 m W of the village, dry margin of vineyard	48°23'58"	20°21'47"	277	7	0	PP	2006	
41	2	Rožňava/Plešivec	Steppic slopes, ca 500 m S of the town	48°32'41"	20°24'27"	249	2	1	JL	2006	
42	2	Revúca/Držkovce	2 km N of the village	48°34'19"	20°13'44"	283	5	1	AJ	2006	
43	4	Malacky/Veľké Leváre	3 km N of the village	48°32'00"	17°00'17"	149	4	1	AJ	2006	
44	2	Rožňava/Kečovo	wood between Domica and Kečovo, at red-labelled touristic path	48°28'51"	20°28'33"	313	4	1	FK&AK	2008	
45	2	Rožňava/Kečovo	Kečovské lúky grassland complex, margin of wood	48°30'44"	20°29'05"	440	3,4	1	FK&AK	2008	
46	4	Rožňava/Silická Brezová	Silická Brezová, pasture SW of the village, at blue-labelled touristic path	48°31'35"	20°28'28"	454	3	1	FK&AK	2008	
47	3	Rožňava/Plešivec	wood (<i>Quercus cerris</i>) between Silická Brezová and Plešivec, at blue labelled touristic path	48°32'53"	20°26'43"	550	4	1	FK&AK	2008	
48	3	Rožňava/Pašková	Koniarska planina plain, wood on the slope S of the Drieňová studňa water source.	48°34'51"	20°21'32"	367	4	1	FK&AK	2008	
49	2	Rožňava/Plešivec	Plešivecká planina plain, mosaic pasture forest, Non the slope N of big tank for rain water (green-labelled touristic path)	48°37'26"	20°25'10"	693	4	1	FK&AK	2008	
50	2	Rožňava/Plešivec	Plešivecká planina plain, rocks on the periphery of the sink hole (green-labelled touristic path)	48°36'51"	20°25'02"	660	1	1	FK&AK	2008	
51	2	Rožňava/Plešivec	Plešivec, slope in forest on SW slope of Plešivecká planina plain (green-labelled touristic path)	48°33'34"	20°21'32"	367	4	1	FK&AK	2008	
52	3	Rožňava/Gemerská Hôrka	Koniarska planina plain, shaded rock in wood on the southern slope above Gemerská Horka	48°32'37"	20°22'38"	341	1	1	FK&AK	2008	

53	4	Rožňava/Silica	Silická planina plain, wood margin at the red-labelled touristic path N of the Silica village	48°34'18" 20°33'19"	570	4	1	FK&AK	2009	
54	3	Rožňava/Silica	Silická planina plain, pasture at red-labelled touristic path N of the Silica village	48°34'37" 20°33'25"	562	3	1	FK&AK	2009	
55	2	Rožňava/Silica	NE part of the Silická planina plain, pasture at red-labelled touristic path N of the Silica village	48°35'57" 20°35'10"	560	3	1	FK&AK	2009	
56	2	1	Rožňava/Silica	Silická planina plain, Silica, wood at yellow-labelled touristic path to Silická Ladnica abyss	48°33'19" 20°30'14"	552	4	1	FK&AK	2009
57	7	Rožňava/Silická Brezová	Silická planina plain, <i>Prunus spinosa</i> scrub at wood margin N of the village; large population	48°32'42" 20°30'16"	491	5	1	FK&AK	2009	
58	5	Rožňava/Silická Brezová	Silická planina plain, on a small hill at red-labelled touristic path, steppic pasture with <i>Pulsatilla grandis</i> , <i>Adonis vernalis</i> , large population	48°32'33" 20°30'00"	439	2	1	FK&AK	2009	
59	3	Rožňava/Domica	wood margin SE of the cave, at red-labelled touristic path to Kečovo	48°28'40" 20°28'29"	366	4	1	FK&AK	2009	
60	7	Rožňava/Domica	100 m S of the cave, old orchard	48°28'39" 20°28'16"	340	2,4	1	FK&AK	2009	
61	2	Rožňava/Honce	Plešivecká planina plain, Gerlašské skály rocks, grassy place at beech wood margin on the top	48°39'27" 20°25'23"	752	3	1	FK&AK	2009	
62	5	2	Rožňava/Plešivec	Plešivecká planina, hazel scrub at the blue-labelled touristic path, large population	48°38'18" 20°25'05"	733	5	1	FK&AK	2009
63	4	Rožňava/Plešivec	Plešivecká planina plain, ruderalized pasture with <i>Elytrigia repens</i> , <i>Dactylis glomerata</i> , <i>Poa angustifolia</i> at big cisterna for rain water at blue-labelled touristic path	48°37'39" 20°25'05"	707	3	1	FK&AK	2009	
64	6	Trnava/Smolenice	abandoned vineyards, at present succession stage to broad-lef forest, above W part of a village, ESE slopes of the Molpír hill	48°30'23" 17°25'34"	286	4	0	MD	2009	
65	3	Martin/Vricko	scrub at the touristic path to Klak, 0.8 km befor waterfall, NW of the village	48°58'57" 18°40'05"	797	5	1	MJ	2009	
66	2	Martin/Kláštor pod Znievom	pasture at the Jeseň na Hôrkach	48°58'59" 18°47'50"	488	3	0	MJ	2009	
67	2	Martin/Kláštor pod Znievom	pasture at the Jeseň na Hôrkach	48°59'27" 18°47'51"	553	3	0	MJ	2009	
68	2	Martin/Kláštor pod Znievom	scrub at the path at the Jeseň na Hôrkach	48°58'54" 18°48'21"	491	5	0	MJ	2009	
69	4	Lučenec/Budiná-Svătošovo	Slope above the road n of Svătošovo, cca 7 km NW of Divín; abandoned grassland	48°27'57" 19°26'37"	700	3	0	FK&JH&PK	2009	
70	3	Lučenec/Polichno	<i>Robinia</i> stand on the slope above the road in SE part of the village	48°24'04" 19°30'11"	621	6	0	FK&JH&PK	2009	
71	3*	Lučenec/Luboreč	margin of the stepp on the S slope of Velký Lysec hill	48°20'57" 19°27'47"	654	2	1	FK&JH&PK	2009	

72	5	Velký Krtíš/Modrý Kameň	grassy slope at the local road in recreation area Drienovka, cca 1 km NEN of the castle	48°15'05"	19°20'34"	473	3	1	FK&JH&OR	2009		
73	6	Velký Krtíš/Modrý Kameň	<i>Quercus cerris</i> wood on the S slope of the Kalvárie hill on the N margin of the town	48°14'54"	19°19'52"	465	4	1	FK&JH&OR	2009		
74	2*	Lučenec/Čakanovce	scrub at the local road at sand pit at SW margin of the village	48°12'42"	19°48'20"	280	5	0	BT	2010		
75	8	Krupina/Lackov	scrub margin at the local road S of the settlement of Brezinka	48°19'49"	19°11'00"	564	5	0	FK&JH&PK	2010		
76	4	Zvolen/Bzovská Lehotka	scrub at the local road at recreation area S of the fishpond, ESE of the village	48°24'28"	19°09'05"	444	5	0	FK&JH&PK	2010		
77	4	Žilina/Fačkov	Fačkovské sedlo saddle, dry grassland	48°57'32"	18°37'02"	788	3	1	JM	2008		
78	2	Banská Štiavnica/Štiavnické Baně	beech wood, margin of local road under the Tanád hill	48°26'45"	18°51'15"	800	4	1	JM	2008		
79	14	Lučenec/Belina	dry grassland on loess under the local road E of the village	48°14'38"	19°51'28"	251	2	0	FK&JH	2008		
80	3	Lučenec/Belina	track in the loess E of the village, partly shaded	48°14'32"	19°51'37"	280	5	0	FK&JH	2008		
81	1	21	Trenčín/Drietoma	scrub along field path and scrub at field balk, 1.6 km NNW of the centre of the village	48°54'27"	17°56'56"	266	5,7	0	MD&FK	2011	
82	6	12	9	Trenčín/Trenčianske Jastrebie	steppic vegetation on limestone slopes and scrub at the base of old limestone quarry, 1.3 km NW of the centre of the village	48°48'34"	18°05'59"	326	2,5	1	MD&FK	2011
83	8	Trenčín/Horné Motešice	dry pasture with <i>Festuca rupicola</i> and sparse shrubs next to oak-hornbeam wood, 900 m WNW of the centre of the village	48°50'00"	18°10'30"	308	2	1	MD&FK	2011		
84	16	Bánovce n. B./Timoradza	side ditch with eutrophicated grassland, 1.1 km SSE of the centre of the village	48°48'12"	18°14'35"	248	7	0	MD&FK	2011		
85	19	Prievidza/Horná Ves	alluvial wood with <i>Fraxinus</i> and <i>Alnus glutinosa</i> and its margin on the contact with pasture, 1 km SE of the centre of the village	48°36'07"	18°30'07"	310	3,4	1	MD&FK	2011		
86	6	4	Žarnovica/Vel'ké Pole	Urban settlement, side ditch with mesophilous grasslands, partially shaded by shrubs	48°32'57"	18°30'44"	555	7	0	MD&FK	2011	
87	11	9	Žarnovica/Nová Baňa	forest margin and side ditch along the road to the village of Orovnice, 900 m W of the bridge across the Hron river	48°24'33"	18°38'09"	244	7	0	MD&FK	2011	
88	12	Zlaté Moravce/Němčiňany	side ditch and forest margin along road in the <i>Quercus cerris</i> forest between the villages of Nemčiňany and Kozárovce	48°18'23"	18°28'34"	266	7	0	MD&FK	2011		
89	4	Nitra/Žitavce	at border between wet scrub and grassland 500 m SSW of the crossroad N of the village	48°12'33"	18°18'12"	138	3,5	0	MD&FK	2011		
90	53	Nové Zámky/Dolný Ohaj	secondary <i>Robinia</i> forest 2.2 km SE of the centre of the village, 100 m E of the road	48°03'59"	18°16'13"	123	6	0	MD&FK	2011		
91	15	Galanta/Šintava	road ditch 1 km NE of the bridge across the river Váh	48°17'22"	17°45'39"	142	7	0	MD&FK	2011		

92	25	Hlohovec/Bojničky	road ditch, scrub along the vineyard and field balk, 2.1 km NNW of the village	48°24'31"	17°47'25"	257	5,7	0	MD&FK	2011
93	4	Trnava/Trstín	scrub at the base of old chalk quarry near the Jewish cemetery, 1.3 km NW of the centre of the village	48°32'12"	17°27'13"	232	5	1	MD&FK	2011
