Krahulec F., Krahulcová A., Urfus T. & Doležal J. (2020) Populations of *Pilosella* species in ruderal habitats in the city of Prague: consequences of the spread of *P. aurantiaca* and *P. rothiana*. Preslia 92: 167–190.

Electronic appendix 1. – Individual plants recorded and their taxonomic, karyological and reproductive attributes. Locality codes: 1 – Háje; 2 – Hrnčíře; 3 – Řepy. Taxonomic determination was done by F. Krahulec and J. Chrtek; in questionable cases, the plants were revised/determined by Siegfried Bräutigam (Dresden, Germany). Methods used for determination of the reproductive system (RS): A – emasculation/open pollination experiment; B – FCSS analysis of seed doublets; C – FCSS analysis of pooled seed samples (six to ten seeds per sample) detecting the ploidal diversity among embryos; D – Chromosome number screening of germinating seeds detecting the karyological diversity among progeny. Using the method B, C, and D, the number of analysed seeds originating from open-pollinated maternal plants is given in parentheses. For description of the methods used for determination of RS, see Material and Methods section. Symbol M behind the chromosome number signifies the presence of a long hemizygous "marker" chromosome in the karyotype.

Taxonomic identity	**Combination**	**Plant individual**	**Locality code**	**Year of collection**	**DNA-ploidy level**	**Chromosome number**	**RS**	**Determination of RS**	**Ploidy/chromosome number of embryos**	**Remark**
Basic species										
P. aurantiaca		1489	1	2008	2*n*~4*x*		apomictic	C (50)	4*x*, 2*x*	rare dihaploid embryos (2*x*)
		1604	1	2009	2*n*~4*x*					
		1606	1	2009	2*n*~4*x*					
		1874	1	2010	2*n*~4*x*		apomictic	B (20)	4*x*	
		2030A	1	2012	2*n*~4*x*					
		2141	2	2013	2*n*~4*x*		apomictic	B (18)	4*x*	
P. bauhini subsp. *bauhini*		1481A	1	2008	2*n*~5*x*					
		1481B	1	2008	2*n*~5*x*		apomictic	C (50)	5*x*	
		1481C	1	2008	2*n*~5*x*					
		1603	1	2009	2*n*~5*x*		apomictic	C (26)	5*x*, ca 2.2*x*, ca 2.8*x*	polyhaploid embryos (ploidy corresponding to ca 2.2*x* and 2.8*x*)
		1873	1	2010	2*n*~5*x*		apomictic	A, B (14)	5*x*	
		1484	1	2008	2*n*~6*x*		apomictic	C (50)	6*x*, 3*x*	rare trihaploid embryos (3*x*)
		1876	1	2010	2*n*~6*x*		apomictic	A, B (16)	6*x*	
		2130	2	2013	2*n*~5*x*		apomictic	B (10)	5*x*, ca 2.7*x*	a single polyhaploid embryo (ploidy

										corresponding to ca 2,7*x*)
		2137	2	2013	2*n*~5*x*					
		2144	2	2013	2*n*~5*x*					
		2145	2	2013	2*n*~5*x*					
		2233	2	2018		2*n*= 6*x*= 54, M	apomictic	A		
		2236	2	2018		2*n*= 6*x*= 54, M				
P. bauhini subsp. *magyarica*		2240	2	2019		2*n*= 6*x*= 54				
P. caespitosa		1486A	1	2008	2*n*~4*x*		apomictic	B (49)	4*x*	
		1486B	1	2008	2*n*~4*x*					
		1487	1	2008	2*n*~4*x*		apomictic	B (40)	4*x*	
		1602	1	2009	2*n*~4*x*		apomictic	A		
		1605	1	2009	2*n*~4*x*					
		1877A	1	2010	2*n*~4*x*					
		1877B	1	2010	2*n*~4*x*					
		2029	1	2012	2*n*~4*x*	2*n*=4*x*=36, M				
		2127	2	2013	2*n*~4*x*					
		2128	2	2013	2*n*~4*x*					
		2134	2	2013	2*n*~4*x*		apomictic	B (10)	4*x*	
		2138	2	2013	2*n*~4*x*					
		2140	2	2013	2*n*~4*x*					
		2143	2	2013	2*n*~4*x*					
		2181	2	2014	2*n*~4*x*					
		2225	2	2017		2*n*=4*x*=36, M	apomictic	A		
		2133	2	2013	2*n*~5*x*					
		2136	2	2013	2*n*~5*x*					
P. officinarum		1488A	1	2008	2*n*~4*x*		sexual	A		
		1488B	1	2008	2*n*~4*x*		sexual	A		

		1495A	1	2008	2*n*~4*x*		sexual	A		
		1495B	1	2008	2*n*~4*x*		sexual	A		
		2152	2	2013	2*n*~4*x*					
P. piloselloides		2126	2	2013	2*n*~5*x*		apomictic	A, B (8)	5*x*	
		2129	2	2013	2*n*~5*x*		apomictic	A		
		2135	2	2013	2*n*~5*x*		apomictic	A, B (10)	5*x*	
		2232	2	2018		2*n*=5*x*=45, M	apomictic	A		
Intermediate species										
P. densiflora	*P. bauhini–P. cymosa*	2242	2	2019		2*n*=5*x*=45, M	apomictic	B (16)	5*x*	
P. glomerata	*P. caespitosa–P. cymosa*	2228	2	2018		2*n*=5*x*=45, M	apomictic	A, B (10)	5*x*	
P. rothiana	*P. echioides* > *P. officinarum*	1480A	1	2008	2*n*~4*x*		apomictic	C (50)	4*x*	
		1493A	1	2008	2*n*~4*x*					
		1493B	1	2008	2*n*~4*x*		apomictic	A		
		2132	2	2013	2*n*~4*x*					
		2142	2	2013	2*n*~4*x*					
		2230	2	2018		2*n*=4*x*=36	apomictic	A		
P. polymastix	*P. bauhini–P caespitosa*	1491B	1	2008	2*n*~4*x*		apomictic	C (40)	4*x*	
P. bauhini–P. setigera	*P. bauhini*–[*P. cymosa–P. echioides*]	2235	2	2018	2*n*~5*x*		apomictic	B (16)	5x	
		2241	2	2019		2*n*=5*x*=45	apomictic	B (8)	5x	
P. visianii	*P. officinarum≤P. piloselloides*	2131	2	2013	2*n*~4*x*					
		2139	2	2013	2*n*~4*x*					
		2184	3	2015	2*n*~4*x*		apomictic	B (20)	4*x*	
Recent hybrids										
P. x*brachiata*	*P. bauhini≤P. officinarum*	1482A	1	2008	2*n*~4*x*		apomictic	A, C (50)	4*x*	
		1483A	1	2008	2*n*~4*x*		apomictic	C (50)	4*x*, 2*x*	a single dihaploid embryo

		1483B	1	2008	2*n*~4*x*		apomictic	C (29)	4*x*	
		1491A	1	2008	2*n*~4*x*		apomictic	C (50)	4*x*	
		1494C	1	2008	2*n*~4*x*		apomictic	A, C (50)	4*x*, 2*x*	rare dihaploid embryos (2*x*)
P. x*leptophyton*	*P. bauhini*>*P. officinarum*	1480C	1	2008	2*n*~4*x*					
		2031	1	2012	2*n*~4*x*					
P. officinarum>*P. brachiata*	*P. officinarum* × [*P. bauhini*≤*P. officinarum*]	1485A	1	2008	2*n*~4*x*		sexual	A		
		1485B	1	2008		2*n*=4*x*=36, M	sexual	A, C (7)	4*x*	
		1485C	1	2008	2*n*~4*x*		sexual	A, B (10)	3*x*, 4*x*	
		1496	1	2008	2*n*~4*x*		sexual	A		
P. aurantiaca × *P. leptophyton*	*P. aurantiaca* × [P. *bauhini*>*P. officinarum*]	1492	1	2008	2*n*~4*x*		sexual, semisterile	A, C (20)	5*x*, 6*x*, 7*x*	
		1490A	1	2008	2*n*~6*x*		sexual	A, B (12)	5*x*, 6x, 8x	a single octoploid embryo of 2*n*+*n* origin
		1490B	1	2008	2*n*~6*x*					
P. ×*bifurca*	*P. officinarum* × *P. rothiana* [*P. echioides*≤*P. officinarum*]	2231	2	2018		2*n*=6*x*=54	a low seed-set, parthenogenetic RS	A, B (10)	3x, 6x, 7x	embryos mostly trihaploid, a sigle heptaploid embryo of *n*+2*n* origin.
P. aurantiaca × *P. bifurca*	*P. aurantiaca* × *P. bifurca*	2237	2	2019		2*n*=5*x*=45	seed-sterile	A		
P. aurantiaca × *P. rothiana*	*P. aurantiaca* × *P. rothiana*	2239	2	2019		2*n*=6*x*=54				
P. ×*derubella*	*P. aurantiaca* × *P. piloselloides*	2223	2	2017		2*n*=5*x*=45	a reduced seed-set, sexual RS	A, B (6), D (13)	diverse, between 3*x* and 5*x*	common aneuploid progeny
P. ×*fuscoatra*	*P. aurantiaca* × *P. caespitosa*	2226	2	2017		2*n*=4*x*=36	sexual	D (12)	3x, 5x	progeny diverse in ploidy from a maternal plant
		2238	2	2019		2*n*=4*x*=36	apomictic	A, B (8)	4x	

P. ×*heterodoxa*	*P. piloselloides* × *P. rothiana* *P. piloselloides* × [*P. echioides*>*P. officinarum*]	2243	2	2018		2*n*=ca6*x*=53/54 (a somatic mosaic)	combined RS: parthenogenetic and potentially sexual	B (6)	3x, 4x, 6x	most of seeds damaged by insects, only six achenes available for FCSS analysis (four trihaploid embryos detected among them)
P. ×*rubra*	*P. aurantiaca*>*P. officinarum*		2	2020	2*n*~6*x*					
P. aurantiaca × *P. visianii*	*P. aurantiaca* × [*P. officinarum*≤*P. piloselloides*]	2186	3	2015	2*n*~4*x*		seed-sterile	A		

Electronic Appendix 2. – Summarized karyological and reproductive data on *Pilosella* taxa that are involved in this study irrespective of the locality. The findings are compared with author´s previous two papers that referred to these taxa of *Pilosella* coming from other ruderal habitats in the city of Prague. Items on ploidy level are based on flow cytometry and/or chromosome counting. For hybrid formulae illustrating the parental combination in both intermediate species and recent hybrids, see Table 1. Abbreviations and symbols used: n.d. – reproduction mode not determined; • – the hybrid morphotypes corresponding to either *P. brachiata* or *P. leptophyton* were not distinguished in paper by Krahulcová et al. (2009), because all the hybrids between *P. bauhini* and P. *officinarum* were evaluated as one collective category. References: [a]Krahulcová et al. 2009; [b]Křišťálová et al. 2010.

	Present data	Published data
Taxon	Ploidy level (2n), reproduction mode	Ploidy level (2n), reproduction mode[referrence]
Basic species		
P. aurantiaca	4x, apomictic	the species found but not studied[b]
P. bauhini subsp. *bauhini*	5x, apomictic; 6x, apomictic	4x, apomictic[a]; 5x, apomictic[a,b]; 6x, apomictic[b]; 6x, n.d. [a]; 7x, variable[a]
P. bauhini subsp. *magyarica*	6x, n.d.	
P. caespitosa	4x, apomictic; 5x, n.d.	4x, n.d.[b]; 5x, n.d. [b]
P. officinarum	4x, sexual	4x, sexual[a, b]; 5x, sexual[a]; 6x, sexual [b]; 7x, n.d. [b]
P. piloselloides	5x, apomictic	5x, apomictic [b]
Intermediate species		
P. densiflora	5x, apomictic	the species found but not studied[b]
P. glomerata	5x, apomictic	5x, apomictic [b]
P. rothiana	4x, apomictic	4x, apomictic [b]
P. bauhini – P. setigera	5x, apomictic	the species found but not studied[b]
P. polymastix	4x, apomictic	
P. visianii	4x, apomictic	4x, apomictic[b]
Recent hybrids		
P. aurantiaca × *P. rothiana*	6x, n.d.	
P. aurantiaca × *P. bifurca*	5x, seed-sterile	
P. aurantiaca × *P. leptophyton*	4x, sexual; 6x, sexual	
P. aurantiaca × *P. visianii*	4x, seed-sterile	
•*P. bauhini* × *P. officinarum*		4x, sexual[a]; 4x, apomictic[a]; 5x, sexual[a]; 5x, apomictic[a]; 6x, sexual[a]; 7x, apomictic[a]; 7x, variable[a]; 8x, variable[a]; aneuploids > 4x, mostly sexual[a]
P. ×*leptophyton*	4x, n.d.	5x, apomictic[b]
P. ×*brachiata*	4x, apomictic	4x, seed-sterile[b]; 4x, n.d. [b]
P. officinarum > *P. brachiata*	4x, sexual	
P. ×*bifurca*	6x, variable	
P. ×*derubella*	5x, sexual	
P. ×*fuscoatra*	4x, apomictic; 4x, sexual	
P. ×*heterodoxa*	6x, variable	

Electronic Appendix 3. – *Pilosella aurantiaca* × *P.* ×*leptophyton*, hexaploid plant..

Electronic Appendix 4. – *Pilosella bauhini* × *P. setigera*

Appendix 5. – *Pilosella ×bifurca*.

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Electronic Appendix 6. – *Pilosella ×fuscoatra*. Apomictic plant.

Electronic Appendix 7. – *Pilosella ×fuscoatra*. Sexual plant.