

SUPPLEMENTARY DATA

TABLE S1. Sampled taxa, their genome sizes, GC contents, seed masses, stomatal lengths, flowering phenology and duration of their growing season

Species	Genome size 2C [Mbp]	CV genome size [%]	GC content [%]	Standard used	Ratio PI	Ratio DAPI	Seed mass [mg]	Stomatal length [μ m]	Flowers from [month]	Flowers to [month]	Growing season duration [months]	EIV-light	EIV-temperature	EIV-continentiality	EIV-moisture	EIV-soil pH	EIV-nitrogen	Sample origin
<i>Acanthus mollis</i>	1910	0.35	40.47	<i>Carex acutiformis</i>	2.388	1.954		42.08	3	6		7	8	4	3	5	4	43° 8'33.44"N, 5°55'3.71"E
<i>Acorus calamus</i>	1114	0.18	39.85	<i>Solanum lycopersicum</i>	0.657	0.620			5	6	8	8	6	5	10	7	7	Botanical garden Masaryk Univ. Brno
<i>Adoxa moschatellina</i>	40213	1.04	37.57	<i>Leucosium aestivum</i>	0.653	0.835		68.36	3	5	2	5	4	5	6	7	8	49° 6'57.67"N, 16°38'1.69"E
<i>Aetheorhiza bulbosa</i>	1303	0.76	37.48	<i>Solanum lycopersicum</i>	0.768	0.817		23.67	3	6		7	8	4	3	5	3	43°20'54.50"N, 4°47'22.30"E
<i>Allium ampeloprasum</i>	62558	1.04	36.84	<i>Vicia faba</i>	2.688	3.342			4	6		7	7	5	3	6	5	40°33.742"N, 14°53.850"E
<i>Allium cirrhosum</i>	35452	1.66	39.70	<i>Vicia faba</i>	1.523	1.643			7	9	5	7	6	4	3	6	4	43°30'30.37"N, 6°53'34.14"E
<i>Allium flavum</i>	23938	0.97	41.17	<i>Pisum sativum</i>	3.053	3.152	1.08	32.84	6	8	5	8	5	5	3	5	3	49°13'6.433"N, 16°40'34.659"E
<i>Allium chamaemoly</i>	28181	0.75	38.47	<i>Vicia faba</i>	1.211	1.390			2	4		8	10	4	2	4	2	41°51.753"N, 16°02.396"E
<i>Allium nigrum</i>	51315	0.56	38.42	<i>Vicia faba</i>	2.205	2.536			4	5		10	9	4	3	6	4	39°21.120"N, 16°11.009"E
<i>Allium oleraceum</i>	56611	0.23	40.04	<i>Vicia faba</i>	2.432	2.577		31.89	7	9	6	7	8	5	3	5	5	49°53'0.627"N, 14°6'35.737"E
<i>Allium orientale</i>	36350	1.31	38.97	<i>Vicia faba</i>	1.562	1.748	1.90	27.62	3	4								37°35'58.88"N, 30°51'37.82"E
<i>Allium pendulinum</i>	36992	0.72	44.52	<i>Vicia faba</i>	1.590	1.320			4	6		6	9	4	4	6	8	39°19.900"N, 16°04.084"E
<i>Allium senescens ssp. montanum</i>	42754	0.82	39.82	<i>Vicia faba</i>	1.837	1.968		28.87	6	7	7							48°53'41.536"N, 15°49'8.379"E
<i>Allium siculum</i>	59962	1.97	37.61	<i>Vicia faba</i>	2.576	3.084		36.69	5	6		5	7	4	3	4	6	Botanical garden Masaryk Univ. Brno
<i>Allium subhirsutum</i>	27502	0.71	37.93	<i>Vicia faba</i>	1.182	1.393	1.16		3	5		8	9	4	2	4	2	43° 8'51.69"N, 5°55'37.42"E
<i>Allium triquetrum</i>	33447	0.58	39.12	<i>Vicia faba</i>	1.437	1.596	5.32		2	4		6	9	4	4	4	7	43°28.447"N, 10°19.847"E
<i>Allium ursinum</i>	56501	1.14	35.75	<i>Vicia faba</i>	2.428	3.178			4	5	3	2		5	6	7	8	Botanical garden Masaryk Univ. Brno
<i>Allium vineale</i>	38285	0.69	39.15	<i>Vicia faba</i>	1.645	1.824		24.41	5	7	6	8	7	5	4		7	49°53'0.627"N, 14°6'35.737"E
<i>Androcymbium palaestinum</i>	5671	0.80	46.30	<i>Epipremnum aureum</i>	0.726	0.591		39.06										31° 49' 27.5"N, 35° 23' 59.4"E
<i>Anemone apennina</i>	26454	0.63	42.22	<i>Vicia faba</i>	1.137	1.073			3	5	3	5	5	6	4	5	5	39°17.614"N, 16°06.712"E
<i>Anemone coronaria</i>	21874	1.06	40.08	<i>Epipremnum aureum</i>	2.799	3.219	0.76		1	3	3	8	8	4	4	4	3	38°53'7.84"N, 16°37'57.32"E
<i>Anemone hortensis</i>	23495	0.11	41.96	<i>Epipremnum aureum</i>	3.006	3.131			1	4	3	8	8	5	4	4	3	40°22.623"N, 15°00.494"E
<i>Anemone narcissiflora</i>	17551	0.19	41.57	<i>Epipremnum aureum</i>	2.246	2.388		39.48	5	7		8	2	7	5	7	4	Botanical garden Masaryk Univ. Brno
<i>Anemone nemorosa</i>	37017	1.25	44.25	<i>Vicia faba</i>	1.591	1.341		58.99	2	5	3			4		5		49°13'13.725"N, 16°40'37.638"E
<i>Anemone ranunculoides</i>	32473	1.48	43.96	<i>Vicia faba</i>	1.395	1.196	2.90	51.75	2	5	3	3	6	4	6	8	8	49°13'22.715"N, 16°40'38.535"E
<i>Anthericum ramosum</i>	5519	0.44	43.52	<i>Epipremnum aureum</i>	0.706	0.675	4.62	27.07	5	7	5	6	5	4	4	7	4	Botanical garden Masaryk Univ. Brno
<i>Arisaema flavum</i>	9919	0.30	47.93	<i>Ruscus aculeatus</i>	0.493	0.357												Praha-Trója Botanical Garden
<i>Arisarum simorrhinum</i>	29289	0.26	46.66	<i>Ruscus aculeatus</i>	1.454	1.138		55.39	1	3								Praha-Trója Botanical Garden
<i>Arisarum vulgare</i>	28533	0.57	46.42	<i>Vicia faba</i>	1.226	0.911		61.90	10	5		6	8	4	4	4	4	40°13.271"N, 14°58.534"E
<i>Aristolochia rotunda</i>	582	0.12	39.61	<i>Carex acutiformis</i>	0.728	0.623		28.95	4	6		6	7	5	4	6	3	38°52.553"N, 16°37.956"E
<i>Arum concinatum</i>	23445	0.27	44.97	<i>Epipremnum aureum</i>	3.000	2.640		52.92										Praha-Trója Botanical Garden
<i>Arum cylindraceum</i>	8871	1.53	46.51	<i>Vicia faba</i>	0.381	0.282			4	5	2							48°50'30.72"N, 17°34'49.575"E
<i>Arum dioscoridis var. cyprinum</i>	20751	0.73	45.42	<i>Epipremnum aureum</i>	2.655	2.277		54.84										Praha-Trója Botanical Garden
<i>Arum hygrophilum</i>	20443	0.07	42.51	<i>Epipremnum aureum</i>	2.616	2.643		56.28	2	5								Praha-Trója Botanical Garden
<i>Arum italicum</i>	24763	0.64	46.10	<i>Pisum sativum</i>	3.158	2.473		56.90	3	5		6	8	4	4	5	5	40°49'44.73"N, 14°23'42.41"E
<i>Asparagus acutifolius</i>	5192	1.55	41.55	<i>Solanum lycopersicum</i>	0.662	2.357		29.59	8	9		6	9	4	2	5	5	40°49'31.00"N, 14°23'37.16"E
<i>Asparagus densiflorus</i>	4278	1.28	40.50	<i>Solanum lycopersicum</i>	2.521	2.301												Cultivated plants of unknown origin
<i>Asparagus officinalis</i>	6541	1.21	40.35	<i>Solanum lycopersicum</i>	3.855	3.547			5	6	6	8	8	5	5	5	5	49°12'41.772"N, 16°35'50.199"E
<i>Asparagus tenuifolius</i>	3007	0.22	42.19	<i>Solanum lycopersicum</i>	1.772	1.479			5	6		6	7	6	4	6	5	Praha-Trója Botanical Garden
<i>Asphodeline lutea</i>	7109	1.84	46.74	<i>Vicia faba</i>	0.305	0.223	14.30		4	5		11	6	6	2	6	3	41°47.466"N, 15°58.756"E
<i>Asphodelus microcarpus</i>	6553	1.18	42.34	<i>Epipremnum aureum</i>	0.839	0.855			3	5		10	9	4	2	3	5	42°11.139"N, 11°47.226"E

<i>Begonia grandis</i>	1086	0.15	40.31	<i>Solanum lycopersicum</i>	0.640	0.590		47.22											Praha-Trója Botanical Garden
<i>Bellevalia desertorum</i>	48002	4.50	43.13	<i>Ruscus aculeatus</i>	2.384	2.287		37.25											31° 49' 27.5"N, 35° 23' 59.4"E
<i>Bellevalia pycnantha</i>	21910	4.92	44.42	<i>Epipremnum aureum</i>	2.803	2.547		54.00											Cultivated plants of unknown origin
<i>Bellevalia romana</i>	18763	0.00	46.65	<i>Epipremnum aureum</i>	2.401	1.914			3	5	8	7	5	3	6	4			40°22.695'N, 15°00.497'E
<i>Bellis sylvestris</i>	3991	1.23	39.18	<i>Epipremnum aureum</i>	0.511	0.615		39.46	9	6	5	8	4	3	3	3			32° 45' 17.5"N, 35° 1' 43.1"E
<i>Biarum olivieri</i>	6688	0.54	45.53	<i>Epipremnum aureum</i>	0.856	0.729		40.40											31° 49' 27.5"N, 35° 23' 59.4"E
<i>Biarum tenuifolium</i>	6755	0.90	45.45	<i>Epipremnum aureum</i>	0.864	0.740		36.46	10	6	6	7	3	4	4	3			39°42.982'N, 16°05.102'E
<i>Botrychium lunaria</i>	23715	0.98	45.49	<i>Epipremnum aureum</i>	3.034	2.591		41.37	6	8	7	3	6	4		2			49°22'57.063"N, 16°28'16.107"E
<i>Bowiea volubilis</i>	3617	0.69	45.95	<i>Epipremnum aureum</i>	0.463	0.385	2.88	40.44											Cultivated plants of unknown origin
<i>Bryonia alba</i>	5827	0.55	41.76	<i>Pisum sativum</i>	0.743	0.744			5	7	7	8	7	6	5	8	4		49°13'45.141"N, 16°35'45.492"E
<i>Bryonia dioica</i>	5522	1.82	39.98	<i>Pisum sativum</i>	0.704	0.774	13.03		4	5	7	8	7	5	5	8	6		49°12'19.709"N, 16°35'39.109"E
<i>Bryonia verrucosa</i>	4504	1.37	42.50	<i>Pisum sativum</i>	0.574	0.552	36.09	28.01	5	9									www.rareplants.de
<i>Camassia quamash</i>	4258	1.09	42.27	<i>Epipremnum aureum</i>	0.545	0.558		29.09											Cultivated plants of unknown origin
<i>Cephalanthera damasonium</i>	33422	2.36	44.46	<i>Vicia faba</i>	1.436	1.197		40.18	5	7	5	2	5	4	4	7	4		49°17'17.179"N, 16°33'27.302"E
<i>Cephalanthera longifolia</i>	31534	1.04	43.09	<i>Ruscus aculeatus</i>	1.566	1.491		45.42	4	6	5	4	5	5	3	8	3		49°15'0.436"N, 17°40'35.107"E
<i>Cephalanthera rubra</i>	30984	0.36	44.86	<i>Ruscus aculeatus</i>	1.539	1.339		42.27	5	7	5	3	5	5	4	8	3		49°22'58.071"N, 16°28'3.104"E
<i>Colchicum arenarium</i>	4756	1.26	44.95	<i>Pisum sativum</i>	0.607	0.508		45.53	9	9	3	9	8	7	2	9	1		47°46'15.40"N, 18°31'11.53"E
<i>Colchicum autumnale</i>	5833	0.53	46.71	<i>Pisum sativum</i>	0.744	0.562	8.49	41.47	8	9	3	5	5	5	6	7			49°11'30.368"N, 17°31'0.638"E
<i>Colchicum cupanii</i>	8754	0.85	43.01	<i>Epipremnum aureum</i>	1.120	1.101		31.65	9	11		8	4	3	3	4	4		39°52.550'N, 16°09.758'E
<i>Colchicum speciosum</i>	5108	0.66	45.21	<i>Pisum sativum</i>	0.651	0.538			9	10									Botanical garden Masaryk Univ. Brno
<i>Convallaria majalis</i>	33292	0.91	44.86	<i>Vicia faba</i>	1.431	1.165	25.65	34.28	5	6	5	5		4	4		4		49°13'16.688"N, 16°40'17.529"E
<i>Corydalis cava</i>	1870	0.48	41.50	<i>Carex acutiformis</i>	2.337	1.812	5.69	24.45	3	5	2	3	6	4	6	8	8		49° 6'57.67"N, 16°38'1.69"E
<i>Corydalis intermedia</i>	1395	0.49	41.36	<i>Carex acutiformis</i>	1.743	1.362		29.42	4	6	2	3	5	4	5	5	6		49°31'32.347"N, 16°22'59.755"E
<i>Corydalis pumila</i>	1173	0.45	40.90	<i>Carex acutiformis</i>	1.467	1.174	1.65	18.31	4	5	2	3	4	5	5	5	6		48°56'0.15"N, 15°47'54.44"E
<i>Corydalis solida</i>	1191	0.93	40.33	<i>Carex acutiformis</i>	1.488	1.227			4	5	2	3	6	5	5	7	7		49° 6'57.67"N, 16°38'1.69"E
<i>Crinum asiaticum</i>	40471	0.98	40.49	<i>Vicia faba</i>	1.739	1.800		39.05											Botanical garden Masaryk Univ. Brno
<i>Crinum moorei</i>	54051	1.49	38.36	<i>Vicia faba</i>	2.323	2.680													Praha-Trója Botanical Garden
<i>Crocus pallasii</i>	5836	0.38	45.23	<i>Pisum sativum</i>	0.744	0.614			7	9									36°54'56.98"N, 30°3'31.48"E
<i>Cyclamen coum</i>	13297	0.65	41.14	<i>Pisum sativum</i>	0.577	0.605			3	5									33° 13' 21.5"N, 35° 44' 59.9"E
<i>Cyclamen graecum</i> ssp. <i>anatolicum</i>	4521	1.29	40.87	<i>Pisum sativum</i>	0.577	0.605	8.24		7	9									36°34'24.54"N, 30°19'28.41"E
<i>Cyclamen hederifolium</i>	4730	1.07	41.78	<i>Epipremnum aureum</i>	0.605	0.636	7.16	29.88	8	10	10	4	8	5	5	5	5		42°53.433'N, 11°05.306'E
<i>Cyclamen purpurascens</i>	5658	0.45	42.03	<i>Epipremnum aureum</i>	0.724	0.751		28.84	8	9	10	4	6	4	5	9	5		49°13'21.80"N, 16°40'30.40"E
<i>Cypripedium calceolus</i>	68313	3.35	43.29	<i>Vicia faba</i>	2.935	2.613		55.43	5	6		5	4	6	4	8	6		49°11'24.57"N 16°30'11.05"E
<i>Cypripedium flavum</i>	71359	0.90	43.19	<i>Crinum asiaticum</i>	1.763	1.525		61.70											Praha-Trója Botanical Garden
<i>Danaë racemosa</i>	10625	1.23	41.72	<i>Pisum sativum</i>	1.355	1.359	88.32	26.95											Cultivated plants of unknown origin
<i>Datura innoxia</i>	4443	0.76	42.96	<i>Pisum sativum</i>	0.567	0.531		26.13	6	9		7	9	5	3	5	7		Cultivated plants of unknown origin
<i>Dentaria bulbifera</i>	3685	0.77	38.74	<i>Epipremnum aureum</i>	0.472	0.581		35.65	4	6	3	3	5	4	5	7	6		49°11'40.602"N, 16°33'20.368"E
<i>Dentaria enneaphyllos</i>	2484	0.55	41.06	<i>Epipremnum aureum</i>	0.318	0.347		18.50	3	5	3	4	4	6	5	7	7		49°11'39.578"N, 16°33'23.041"E
<i>Dentaria glandulosa</i>	1487	0.25	39.47	<i>Solanum lycopersicum</i>	0.877	0.844		30.32	4	5	3	4	4	6	6	5	7		49°35'25.426"N, 18°46'58.009"E
<i>Dentaria heptaphylla</i>	2133	0.50	41.84	<i>Solanum lycopersicum</i>	1.257	1.069		26.71	4	6	3	3	5	4	5	8	6		46°25'55.80"N, 6°10'18.20"E
<i>Dicentra spectabilis</i>	1174	0.09	41.85	<i>Carex acutiformis</i>	1.467	1.116		32.69	4	5	2								Botanical garden Masaryk Univ. Brno
<i>Dietes bicolor</i>	14441	0.69	42.06	<i>Epipremnum aureum</i>	1.848	1.914		15.84											Cultivated plants of unknown origin
<i>Dioscorea tokoro</i>	871	1.49	41.98	<i>Ipomoea quamoclit</i>	0.703	0.590		25.94											Praha-Trója Botanical Garden
<i>Dipcadi serotinum</i>	6297	0.63	45.20	<i>Pisum sativum</i>	0.803	0.663	2.05	31.62	4	6		11	8	3	1	4	2		37° 1'29.90"N, 8°56'46.08"W
<i>Disporum smithii</i>	5411	0.52	46.10	<i>Epipremnum aureum</i>	0.692	0.570		35.96											Praha-Trója Botanical Garden
<i>Disporum uniflorum</i>	49032	0.68	45.98	<i>Vicia faba</i>	2.107	1.608		64.94											Praha-Trója Botanical Garden
<i>Dodecatheon media</i>	5461	0.51	39.96	<i>Epipremnum aureum</i>	0.699	0.809		40.68	4	5									Cultivated plants of unknown origin
<i>Doronicum hungaricum</i>	7525	0.61	40.87	<i>Vicia faba</i>	0.323	0.328			5	7	4	6	5	5	6	6	5		Cultivated plants of unknown origin
<i>Dracaena deremensis</i>	2470	0.97	44.05	<i>Pisum sativum</i>	0.315	0.278		26.19											Cultivated plants of unknown origin
<i>Dracunculus vulgaris</i>	10343	0.47	44.06	<i>Epipremnum aureum</i>	1.323	1.227		41.63	4	5		6	8	4	4	5	5		39°51'31.85"N, 26°19'16.61"E
<i>Drosera menziesii</i>	936	0.73	41.31	<i>Solanum lycopersicum</i>	0.552	0.482		16.01											Cultivated plants of unknown origin
<i>Drosera peltata</i>	787	2.49	44.15	<i>Solanum lycopersicum</i>	0.464	0.347		24.71											Cultivated plants of unknown origin
<i>Ecballium elaterium</i>	2442	0.76	40.67	<i>Pisum sativum</i>	0.311	0.330			5	10		7	8	5	3	5	3		Botanical garden Masaryk Univ. Brno
<i>Eranthis cilicica</i>	22145	2.45	42.91	<i>Pisum sativum</i>	2.824	2.655	3.13	66.82	2	3	3								Botanical garden Masaryk Univ. Brno

<i>Eranthis hyemalis</i>	22034	0.37	42.76	<i>Pisum sativum</i>	2.810	2.662	2.37	53.08	2	3	3	4	5	5	4	6	8	Botanical garden Masaryk Univ. Brno
<i>Erythronium dens-canis</i>	51850	0.48	44.37	<i>Vicia faba</i>	2.228	1.867			3	4	2	5	5	6	3	6	8	45°18.364'N, 11°41.949'E
<i>Eucharis amazonica</i>	23968	2.13	40.48	<i>Pisum sativum</i>	3.057	3.272		42.20										Botanical garden Masaryk Univ. Brno
<i>Ferraria crispa</i>	20262	1.00	37.87	<i>Epipremnum aureum</i>	2.593	3.334		18.44										Cultivated plants of unknown origin
<i>Ficaria calthifolia</i>	12636	0.82	40.39	<i>Epipremnum aureum</i>	1.617	1.829		49.55	9	3	3	4	5	5	6	7	7	48°50'59.607"N, 17°31'57.52"E
<i>Ficaria verna</i> ssp. <i>bulbifera</i>	28434	1.19	42.28	<i>Vicia faba</i>	1.222	1.150		60.99	9	3	3	4	5	5	6	7	7	49°12'38.014"N, 16°34'43.779"E
<i>Fritillaria tubaeformis</i>	96717	0.45	37.32	<i>Galanthus nivalis</i>	1.583	2.133		66.91	6	7		8	4	4	3	6	4	43°42'24.29"N, 6°51'40.11"E
<i>Gagea bohemica</i>	15309	1.61	46.19	<i>Vicia faba</i>	0.658	0.496		42.71	3	4	1	9	8	5	2	8	1	48°50'16.288"N, 16°7'24.534"E
<i>Gagea chrysantha</i>	17773	0.34	45.08	<i>Vicia faba</i>	0.764	0.614			3	4		9	4	3	3	4	3	41°46.151'N, 15°58.735'E
<i>Gagea lutea</i>	38757	0.60	45.98	<i>Vicia faba</i>	1.665	1.271	4.09	79.76	3	5	1	2	4	4	6	7	7	49°13'1.824"N, 16°40'51.547"E
<i>Gagea pusilla</i>	12201	0.36	46.96	<i>Vicia faba</i>	0.524	0.377		44.43	3	4	1	4	4	4	3	4	4	48°50'16.288"N, 16°7'24.534"E
<i>Galanthus elwesii</i>	47456	0.96	41.72	<i>Vicia faba</i>	2.039	1.978		61.67	3	4	2							Cultivated plants of unknown origin
<i>Galanthus nivalis</i>	61089	0.30	43.07	<i>Vicia faba</i>	2.625	2.366		44.97	3	4	2	5	7	4		7	7	Botanical garden Masaryk Univ. Brno
<i>Galtonia candicans</i>	12038	0.60	41.77	<i>Epipremnum aureum</i>	1.540	1.620	7.24	60.81										Cultivated plants of unknown origin
<i>Geranium tuberosum</i>	2424	0.52	41.90	<i>Solanum lycopersicum</i>	1.429	1.211			2	5		7	7	6	3	3	3	36°54'56.98"N, 30° 3'31.48"E
<i>Gloriosa superba</i>	8773	0.38	46.31	<i>Vicia faba</i>	0.377	0.282		42.04										Cultivated plants of unknown origin
<i>Hacquetia epipactis</i>	2692	0.53	39.39	<i>Epipremnum aureum</i>	0.344	0.410		23.91	3	5	7	4	4	7	4	7	4	49°15'1.645"N, 17°39'56.842"E
<i>Haemanthus albiflos</i>	57842	0.31	38.76	<i>Vicia faba</i>	2.485	2.811		63.15										Cultivated plants of unknown origin
<i>Helleborus foetidus</i>	20557	0.84	40.69	<i>Epipremnum aureum</i>	2.630	2.931	11.36	41.32	1	4	5	5	6	4	4	8	3	39°37.233'N, 15°55.297'E
<i>Helleborus lividus</i>	16628	0.86	39.23	<i>Pisum sativum</i>	2.121	2.422			1	4	5	5	6	4	4	4	6	Botanical garden Masaryk Univ. Brno
<i>Helleborus purpurascens</i>	27240	1.10	39.72	<i>Pisum sativum</i>	3.474	3.868			3	4		4	6	6	5	7	4	Botanical garden Masaryk Univ. Brno
<i>Helleborus viridis</i>	26717	0.67	39.94	<i>Vicia faba</i>	1.148	1.223	9.69		2	4	4	3	6	4	5	8	5	45°25.292'N, 11°30.902'E
<i>Hermodactylus tuberosus</i>	23351	0.65	42.92	<i>Pisum sativum</i>	2.978	2.798			2	3		7	7	5	3	5	3	39°21.120'N, 16°11.009'E
<i>Hippeastrum</i> sp.	52786	1.05	39.64	<i>Vicia faba</i>	2.268	2.453	12.70	60.06										Cultivated plants of unknown origin
<i>Hosta lancifolia</i>	18025	1.60	41.52	<i>Epipremnum aureum</i>	2.306	2.459		29.98	5	6								Botanical garden Masaryk Univ. Brno
<i>Hosta minor</i>	14901	1.03	41.82	<i>Epipremnum aureum</i>	1.907	2.000		23.01	5	6								Botanical garden Masaryk Univ. Brno
<i>Hymenocallis festalis</i>	63102	1.47	37.80	<i>Vicia faba</i>	2.711	3.217		59.49										Cultivated plants of unknown origin
<i>Impatiens omeiensis</i>	6378	0.48	39.02	<i>Pisum sativum</i>	0.813	0.939		35.66										Praha-Trója Botanical Garden
<i>Ipheion uniflorum</i>	17071	0.53	38.56	<i>Epipremnum aureum</i>	2.184	2.713	2.06	33.30	4	5								Cultivated plants of unknown origin
<i>Iris aphylla</i> ssp. <i>hungarica</i>	20120	3.22	42.02	<i>Epipremnum aureum</i>	2.574	2.671		19.38	4	5	8	7	7	6	2	4	1	48°21'33.80"N, 21°47'12.70"E
<i>Iris foetidissima</i>	14173	0.94	42.68	<i>Epipremnum aureum</i>	1.814	1.815		25.58	5	8		7	7	5	4	4	5	43°32'8.70"N, 4°38'41.90"E
<i>Iris palaestina</i>	20302	0.97	39.97	<i>Epipremnum aureum</i>	2.598	3.004		32.60										32° 45' 17.5"N, 35° 1' 43.1"E
<i>Iris pumila</i>	20845	1.09	41.70	<i>Epipremnum aureum</i>	2.667	2.817	14.23	21.62	4	5	8							49°13'6.80"N 16°40'32.10"E
<i>Iris sibirica</i>	8770	2.06	42.00	<i>Solanum lycopersicum</i>	5.169	4.358	11.86		5	6	8	7	6	5	6	4	4	Cultivated plants of unknown origin
<i>Iris variegata</i>	10889	0.82	42.78	<i>Epipremnum aureum</i>	1.393	1.387		24.40	5	6	8	7	7	6	3	5	4	49°12'59.921"N, 16°40'12.501"E
<i>Isopyrum thalictroides</i>	854	1.04	39.61	<i>Solanum lycopersicum</i>	0.503	0.481			3	4	2	5	5	5	6	6	7	49°13'40.379"N, 16°40'0.688"E
<i>Jatropha podagrica</i>	586	0.90	38.15	<i>Carex acutiformis</i>	0.733	0.675	159.85	18.03										Cultivated plants of unknown origin
<i>Jeffersonia diphylla</i>	3445	1.08	41.11	<i>Epipremnum aureum</i>	0.441	0.480		31.95										Botanical garden Masaryk Univ. Brno
<i>Jeffersonia dubia</i>	2691	0.08	42.19	<i>Epipremnum aureum</i>	0.344	0.354		30.58										Botanical garden Masaryk Univ. Brno
<i>Kedrostis africana</i>	1674	0.52	38.82	<i>Ipomoea quamoclit</i>	1.352	1.338		47.58										Botanical garden Masaryk Univ. Brno
<i>Kniphofia uvaria</i>	26912	0.34	43.30	<i>Ruscus aculeatus</i>	1.336	1.270	3.44	55.60										Cultivated plants of unknown origin
<i>Lathyrus aureus</i>	11711	0.28	42.27	<i>Pisum sativum</i>	1.494	1.454		19.44	4	5								41° 1'50.74"N, 32° 5'3.49"E
<i>Lathyrus laxiflorus</i>	16419	1.16	40.81	<i>Pisum sativum</i>	2.094	2.203		32.58	6	8		6	5	6	3	3	2	37°48'4.13"N, 30°51'36.80"E
<i>Lathyrus niger</i>	11770	0.69	40.91	<i>Pisum sativum</i>	1.501	1.572	16.95	28.26	5	6	7	5	7	4	3		3	49°13'15.757"N, 16°40'10.823"E
<i>Lathyrus tuberosus</i>	12058	0.26	41.13	<i>Pisum sativum</i>	1.538	1.591	32.05	29.26	5	6	6	7	6	6	4	8	4	49°12'46.672"N, 16°34'55.363"E
<i>Lathyrus venetus</i>	11378	0.46	41.35	<i>Pisum sativum</i>	1.451	1.484	14.97	29.54	4	5	8	4	7	6	5	7	7	41°51.801'N, 16°02.661'E
<i>Lathyrus vernus</i>	10268	0.48	41.30	<i>Pisum sativum</i>	1.309	1.343	16.73	33.81	4	5	8	4	4	5	4	7		49°13'6.118"N, 16°40'50.741"E
<i>Ledebouria petiolata</i>	30243	1.31	44.36	<i>Pisum sativum</i>	3.857	3.342		48.47										Cultivated plants of unknown origin
<i>Leucojum aestivum</i>	61563	0.06	42.33	<i>Vicia faba</i>	2.645	2.483	50.37	50.92	4	5	4	6	5	4	7	7	7	Botanical garden Masaryk Univ. Brno
<i>Leucojum vernum</i>	68708	0.84	42.17	<i>Vicia faba</i>	2.952	2.795	16.56	61.42	3	4	2	6	5	5	7	7	7	Botanical garden Masaryk Univ. Brno
<i>Lilium martagon</i>	76416	0.62	38.67	<i>Leucojum aestivum</i>	1.241	1.502	5.02	81.78	6	7	5	5		5	4	7	5	49°13'16.842"N, 16°40'14.753"E
<i>Limodorum abortivum</i>	38101	0.99	43.09	<i>Pisum sativum</i>	4.859	4.521		58.96	5	7	3		7	5	4	8	0	48°56'37.03"N 16°51'3.20"E
<i>Liriope muscari</i>	19927	0.57	41.12	<i>Epipremnum aureum</i>	2.550	2.777		21.02										Praha-Trója Botanical Garden
<i>Maianthemum bifolium</i>	26103	2.04	42.71	<i>Ruscus aculeatus</i>	1.296	1.273		38.65	6	7	6	3		6		3	3	49°11'39.865"N, 16°33'25.818"E

<i>Maianthemum racemosum</i>	51539	0.39	42.77	<i>Ruscus aculeatus</i>	2.559	2.504	33.31											Praha-Trója Botanical Garden
<i>Maianthemum stellatum</i>	24054	2.33	40.75	<i>Epipremnum aureum</i>	3.078	3.418	33.01	6	7									Botanical garden Masaryk Univ. Brno
<i>Mercurialis perennis</i>	6298	0.59	37.50	<i>Solanum lycopersicum</i>	3.712	3.943	32.30	4	5	6	2	5	4		7	7		49°11'36.763"N, 16°33'25.906"E
<i>Mirabilis jalapa</i>	2329	2.60	39.19	<i>Pisum sativum</i>	0.297	0.340	63.76	5	10	7	6	7	5	4				Botanical garden Masaryk Univ. Brno
<i>Muscari azureum</i>	9437	1.28	47.73	<i>Vicia faba</i>	0.405	0.278	4.15	38.38	4	5								Cultivated plants of unknown origin
<i>Muscari comosum</i>	10535	1.46	47.04	<i>Vicia faba</i>	0.453	0.324	9.11	39.91	4	6	4	7	8	5	3	7	0	49°13'16.353"N, 16°40'28.382"E
<i>Muscari tenuiflorum</i>	9730	0.61	48.13	<i>Vicia faba</i>	0.418	0.280	5.74	37.22	4	6	4	7	8	6	3	8	0	48°51'53.135"N, 16°38'35.794"E
<i>Narcissus bulbocodium</i>	24987	0.54	43.14	<i>Pisum sativum</i>	3.187	2.958		38.50	3	5								37° 1'29.90"N, 8°56'46.08"W
<i>Narcissus poëticus</i>	22792	0.17	42.18	<i>Epipremnum aureum</i>	2.916	3.001		34.98	4	5		8	4	5	5		0	41°44.360"N, 15°58.974'E
<i>Narcissus tazetta</i>	38747	0.71	43.70	<i>Vicia faba</i>	1.665	1.448	5.44		3	5		8	8	4	4	5	4	39°20.732"N, 16°09.959'E
<i>Neottia nidus-avis</i>	33933	3.07	45.81	<i>Vicia faba</i>	1.458	1.124			5	7	2	2	5	5	5	7	5	49°13'24.93"N, 16°40'25.57"E
<i>Nerine bowdenii</i>	28954	3.06	41.07	<i>Vicia faba</i>	1.244	1.249		46.90	8	10								Cultivated plants of unknown origin
<i>Ophiopogon planiscapus</i> var. <i>nigrescens</i>	10706	0.08	42.89	<i>Epipremnum aureum</i>	1.370	1.356		19.03										Praha-Trója Botanical Garden
<i>Ornithogalum exscapum</i>	20884	0.71	45.16	<i>Vicia faba</i>	0.897	0.719		41.84	2	4		11	9	5	2	6	2	39°17.168"N, 16°05.978'E
<i>Ornithogalum montanum</i>	24708	0.77	41.74	<i>Epipremnum aureum</i>	3.161	3.330		37.21	4	5		7	5	4	3	6	2	41°43.767"N, 15°56.711'E
<i>Ornithogalum pyramidale</i>	14219	0.22	42.74	<i>Epipremnum aureum</i>	1.819	1.815			4	5	4	9	8	6	2	6	2	46°38'53.60"N, 23°50'31.78"E
<i>Oxalis corymbosa</i>	719	1.12	38.87	<i>Carex acutiformis</i>	0.899	0.799		22.32	1	12								43°31'20.59"N, 6°53'52.20"E
<i>Paeonia mascula</i>	62239	0.50	36.44	<i>Vicia faba</i>	2.674	3.389			4	5		5	6	4	3	4	5	41°51.753"N, 16°02.396'E
<i>Pancratium maritimum</i>	49928	1.01	41.76	<i>Vicia faba</i>	2.145	2.077		59.39	7	9		11	10	3	1		1	40°33.742"N, 14°53.850'E
<i>Paris quadrifolia</i>	95441	0.17	42.04	<i>Leucojum aestivum</i>	1.550	1.574		67.57	6	7	5	3			6	7	6	49°9'42.023"N, 16°9'28.912"E
<i>Passiflora lutea</i>	2939	0.80	41.51	<i>Epipremnum aureum</i>	0.376	0.401		19.51										Praha-Trója Botanical Garden
<i>Passiflora quadrangularis</i>	4277	0.97	44.68	<i>Pisum sativum</i>	0.545	0.464		27.19										Botanical garden Masaryk Univ. Brno
<i>Phlomis tuberosa</i>	3965	1.71	40.71	<i>Epipremnum aureum</i>	0.507	0.565			5	7	10	8	7	8	3	8	1	Botanical garden Masaryk Univ. Brno
<i>Pinellia pedatisecta</i>	2396	1.41	45.99	<i>Carex acutiformis</i>	2.996	1.805		33.93										Praha-Trója Botanical Garden
<i>Pinellia tripartita</i>	6907	1.19	45.95	<i>Epipremnum aureum</i>	0.884	0.735		42.43										Praha-Trója Botanical Garden
<i>Platanthera bifolia</i>	19494	1.11	43.16	<i>Epipremnum aureum</i>	2.494	2.433		45.39	5	7	4	6		5	5	7		49°17'17.179"N, 16°33'27.302"E
<i>Podophyllum emodi</i>	28762	0.81	42.33	<i>Vicia faba</i>	1.236	1.160	41.97	53.01										Botanical garden Masaryk Univ. Brno
<i>Polygonatum franchetii</i>	60919	0.43	39.13	<i>Vicia faba</i>	2.618	2.905		58.22										Praha-Trója Botanical Garden
<i>Polygonatum latifolium</i>	17844	1.06	44.34	<i>Vicia faba</i>	0.767	0.644	36.34	37.60	5	6	5	2	5	6	5	7	4	Botanical garden Masaryk Univ. Brno
<i>Polygonatum multiflorum</i>	16737	0.93	41.43	<i>Epipremnum aureum</i>	2.142	2.295	35.15	24.01	5	7	5	2	5	5	5	7	4	49°11'39.865"N, 16°33'25.818"E
<i>Polygonatum odoratum</i>	19643	1.19	42.91	<i>Epipremnum aureum</i>	2.513	2.484	7.88	22.72	4	6	5	7	5	5	3	7	3	49°13'17.633"N, 16°40'26.67"E
<i>Polygonatum verticillatum</i>	16541	1.27	45.27	<i>Vicia faba</i>	0.711	0.566			5	7	5	4	4	4	5	4		49°38'53.899"N, 15°57'46.45"E
<i>Puschkinia scilloides</i>	12693	0.98	45.80	<i>Epipremnum aureum</i>	1.624	1.362	3.87		4	5	2							Cultivated plants of unknown origin
<i>Ranunculus bulbosus</i>	10234	0.79	45.41	<i>Vicia faba</i>	0.440	0.347	2.59	45.32	4	6	5	8	6	5	3	7	3	49°21'4.688"N, 16°24'56.094"E
<i>Remusatia vivipara</i>	4170	0.93	44.13	<i>Epipremnum aureum</i>	0.534	0.493		28.92										Praha-Trója Botanical Garden
<i>Rohdea japonica</i>	79509	0.51	44.83	<i>Galanthus nivalis</i>	1.302	1.178		64.45										Botanical garden Masaryk Univ. Brno
<i>Ruscus aculeatus</i>	20137	0.38	42.37	<i>Vicia faba</i>	0.865	0.810	201.27	31.90	2	4	12	4	8	5	4	5	5	41°51.784"N, 16°02.371'E
<i>Ruscus hypoglossum</i>	15854	1.41	41.81	<i>Pisum sativum</i>	2.022	2.017	202.41	25.75	12	4	12	3	4	5	4	4	6	48°15'47.66"N, 17°11'58.67"E
<i>Ruscus hypophyllum</i>	16475	0.54	42.25	<i>Pisum sativum</i>	2.101	2.048		32.93										Cultivated plants of unknown origin
<i>Scilla bifolia</i>	11438	0.63	46.26	<i>Epipremnum aureum</i>	1.463	1.194		42.69	3	5	2	5	6	5	6	7	6	45°19.097"N, 11°41.419'E
<i>Scilla luciliae</i>	8850	3.25	48.22	<i>Ruscus aculeatus</i>	0.439	0.313	8.02		4	5	2							Cultivated plants of unknown origin
<i>Scilla siberica</i>	60052	1.26	46.91	<i>Vicia faba</i>	2.580	1.863	8.67	49.17	3	4	2							Cultivated plants of unknown origin
<i>Scorzonera mollis</i>	4810	1.06	39.07	<i>Epipremnum aureum</i>	0.615	0.745		17.39										36.915828, 30.058744
<i>Scrophularia nodosa</i>	1352	1.09	41.10	<i>Solanum lycopersicum</i>	0.797	0.705		22.59	6	9	6	4	5	4	6	6	7	49°11'56.229"N, 16°32'30.76"E
<i>Semele androgyna</i>	11842	0.88	41.95	<i>Pisum sativum</i>	1.510	1.496		34.63										28°33'30.60"N, 16°10'13.00"W
<i>Simethis mattiazzi</i>	7449	3.97	44.95	<i>Ruscus aculeatus</i>	0.370	0.320	0.33		4	5		8	10	2	2	3	2	43°29'41.48"N, 6°55'37.77"E
<i>Smilax aspera</i>	9340	2.89	43.92	<i>Vicia faba</i>	0.401	0.345	36.60		9	11		6	10	4	2	5	3	43°56'55.57"N, 4°31'52.52"E
<i>Smilax herbacea</i>	3000	1.08	42.17	<i>Epipremnum aureum</i>	0.384	0.395		29.96										Praha-Trója Botanical Garden
<i>Solanum tuberosum</i>	3148	0.47	38.75	<i>Solanum lycopersicum</i>	1.855	1.853		22.46	6	8		7	7		5	5		Cultivated plants of unknown origin
<i>Soldanella hungarica</i>	3088	1.46	38.82	<i>Epipremnum aureum</i>	0.395	0.485		30.22	5	6		5	4	5	6	2	2	45°24'26.93"N 22°50'24.20"E
<i>Soldanella pusilla</i>	12108	0.86	37.59	<i>Epipremnum aureum</i>	1.549	2.019		37.39	6	7		8	1	5	6	2	2	45°23'24.90"N, 22°50'40.28"E
<i>Spathicarpa sagittifolia</i>	18544	0.34	42.08	<i>Epipremnum aureum</i>	2.373	2.455		51.79										Botanical garden Masaryk Univ. Brno
<i>Sprekelia formosissima</i>	128273	0.63	38.59	<i>Leucojum aestivum</i>	2.084	2.533		76.23	3	5								Cultivated plants of unknown origin
<i>Sternbergia colchiciflora</i>	39232	1.47	41.73	<i>Vicia faba</i>	1.686	1.634		37.21	9	10	3	9	4	6	3	5	2	47°49'23.30"N, 18°38'26.20"E

<i>Sternbergia lutea</i>	46962	1.14	42.44	<i>Vicia faba</i>	2.018	1.881	47.19	9	10		6	6	3	4	5	4	Botanical garden Charles Univ. Prague	
<i>Streptopus amplexifolius</i>	11087	0.55	49.73	<i>Ruscus aculeatus</i>	0.551	0.356	43.94	6	8	5	5	4	4	5	6	5	50°38'59.269"N, 15°51'40.352"E	
<i>Symphytum tuberosum</i>	1854	1.13	37.80	<i>Carex acutiformis</i>	2.318	2.172	15.10	3	4	3	4	5	6	6	7	5	49°13'12.376"N, 16°40'48.024"E	
<i>Tamus communis</i>	1684	0.74	42.07	<i>Carex acutiformis</i>	2.105	1.582		4	5		5	7	5	5	8	6	41°51.784'N, 16°02.371'E	
<i>Tofieldia calyculata</i>	1534	3.04	45.84	<i>Oryza sativa</i>													Botanical garden Charles Univ. Prague	
<i>Tricyrtis hirta</i>	8051	1.00	40.58	'Nipponbare'	1.973	1.734		6	8		8		4	8	8	3	Prague	
<i>Tricyrtis macranthopsis</i>	7314	1.06	42.06	<i>Vicia faba</i>	0.346	0.357		8	10								Cultivated plants of unknown origin	
<i>Trientalis europaea</i>	5009	0.54	36.85	<i>Ruscus aculeatus</i>	0.363	0.369	60.43	8	10								Praha-Trója Botanical Garden	
<i>Triglochin bulbosa</i>	3453	1.69	42.50	<i>Epipremnum aureum</i>	0.641	0.866	32.02	5	7	5	5		7		3	2	49°38'53.899"N, 15°57'46.45"E	
<i>Trillium albidum</i>	92478	0.24	42.28	<i>Pisum sativum</i>	0.440	0.423	53.23	4	5		8	8	4	8	7	7	43°20'54.50"N, 4°47'22.30"E	
<i>Triteleia ixioides</i>	12592	0.44	45.54	<i>Leucojum aestivum</i>	1.502	1.506	68.18	3	4	5							Botanical garden Masaryk Univ. Brno	
<i>Urginea hesperia</i>	20610	1.97	41.13	<i>Epipremnum aureum</i>	1.611	1.372											Cultivated plants of unknown origin	
<i>Urginea maritima</i>	12895	0.24	44.84	<i>Pisum sativum</i>	2.628	2.720	51.62										28°18'0.60"N, 16°22'24.20"W	
<i>Uvularia grandiflora</i>	31397	0.57	46.95	<i>Pisum sativum</i>	1.645	1.386	3.50	50.79	9	10		11	10	3	1	4	2	41°54'2.97"N, 16° 8'22.51"E
<i>Veratrum lobelianum</i>	6471	1.80	45.64	<i>Ruscus aculeatus</i>	1.559	1.199	30.48	3	4	5							Botanical garden Masaryk Univ. Brno	
<i>Veratrum nigrum</i>	4665	1.03	43.80	<i>Epipremnum aureum</i>	0.828	0.701		6	7	5	7	4	5	3	0	6	50°38'45.519"N, 15°51'25.843"E	
<i>Carex acutiformis</i>	800	2.31	36.46	<i>Epipremnum aureum</i>	0.597	0.562	7.70	48.01	6	7	5	4	6	5	3	6	5	Botanical garden Masaryk Univ. Brno
<i>Ipomoea quamoclit</i>	1238	0.29	38.61	<i>Solanum lycopersicum</i>	0.471	0.527												Botanical garden Masaryk Univ. Brno
<i>Solanum lycopersicum</i>	1697	2.24	38.72	<i>Solanum lycopersicum</i>	0.730	0.734												www.rareplants.de
<i>Epipremnum aureum</i>	7923	0.34	43.73	<i>Oryza sativa</i>														Provided by J. Doležel lab in Olomouc
				'Nipponbare'	0.458	0.354												Cultivated plants of unknown origin
				<i>Vicia faba</i>	0.340	0.296												Cultivated plants of unknown origin

CV genome size [%] – coefficient of variation for genome size estimation

Used standard – standard used in measurements

Ratio PI – mean ratio of sample and standard peaks in measurements with Propidium iodide

Ratio DAPI – mean ratio of sample and standard peaks in measurements with DAPI

Flowering – black numbers are original; red numbers are our approximations – see Methods in the main text

EIV – Pignatti's Ecological Indicator Values