

INDEX SEMINUM

GOTHENBURG BOTANICAL GARDEN
SWEDEN

2019



Ranzania japonica T.Ito

INDEX SEMINUM 2019

Gothenburg Botanical Garden, Sweden

Material from the Index Seminum are not for sale, but are available on an exchange basis exclusively for scientific, educational and nature conservation purposes.

Orders can be placed until **March 31, 2019**. Orders posted online will be prioritized, but the desiderata found in the end of this catalogue can also be used and sent by e-mail or mail (reaching us by March 31 at the latest). The orders will be dispatched according to the availability of seeds/tubers.

Index Seminum online: botaniska.indexseminum.org

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The catalogue

- The family classification follows APG IV.
- All seeds were collected in 2018.
- Indicated provenance is for seeds/tubers.
- Index of collectors' initials can be found in the end of the catalogue.

The garden

- Latitude/longitude: 57.6805/11.9549
- Altitude: 27–120 m a.s.l.
- Mean temperature (past 10 years): 9.0 °C (0.6 °C for February, 18.4 °C for July)
- Mean annual precipitation (past 10 years): 948 mm

Amaryllidaceae

- 1 ***Allium acuminatum* Hook.**
Acc: 2016-1078, lpen: US-0-GB-2016-1078, CollNo: J.NIL 16-2, USA: Colorado, Elk River Road, Steamboat, Routt County. 2016-06-24. Prov: Garden - wild origin.
- 2 ***Allium hookeri* var. *muliense* Airy Shaw**
Acc: 1991-0889, CollNo: CLD 1205, CHN: Yunnan, Lijiang, Yulong Shan, Xie Ren Ji valley, above Mu Zhou Go, 3000 m. Prov: Garden - wild origin.
- 3 ***Allium kunthianum* Vved.**
Acc: 2011-1685, lpen: RU-0-GB-2011-1685, CollNo: NCE032, RUS: Stavropol'skiy Kray, Mt. Beshtau, 1000-1400 m, 44.05 N | 43.01 E. 2011-09-03. Prov: Garden - wild origin.
- 4 ***Allium nigrum* L.**
Acc: 2001-3193, lpen: GR-0-GB-2001-3193, CollNo: Strid & al. 87-67, GRC: Island of Lesvos, cultivated field between Polichnitos and Vrisa, 39° 04' N | 26° 12' E. 1987-05-01. Prov: Garden - wild origin.
- 5 ***Allium prattii* C.H.Wright**
Acc: 1994-0126, lpen: CN-0-GB-1994-0126, CollNo: KGB 126, CHN: Yunnan, Da Xue Shan, near the pass, 4400 m. 1993-09-17. Prov: Garden - wild origin.
- 6 ***Allium schoenoprasum* var. *alvareense* Hyl.**
Acc: 2011-0131, lpen: SE-0-GB-2011-0131, SWE: Öland, Triberga, Stora Alvaret. 2010-07-17. Collected by Klara Strandå. Prov: Garden - wild origin.
- 7 ***Narcissus viridiflorus* Schousb.**
Acc: 1974-0018, lpen: ES-0-GB-1974-0018, ESP: Los Bareios, Cadiz. Prov: Garden - wild origin.
- 8 ***Nectaroscordum siculum* (Ucria) Lindl.**
Acc: 2005-1854, lpen: GR-0-GB-2005-1854, CollNo: AS 55702, GRC: Evrou, Soufliou, Hill 552, NW of the village of Lefkimi, by the road 0-1.5 km before the summit, 450-550 m, 41°06' N | 26°07' E. 2005-06-16. Prov: Garden - wild origin.

Apiaceae

- 9 ***Astrantia major* L.**
Acc: 2011-1732, lpen: RU-0-GB-2011-1732, CollNo: NCE081, RUS: Karachayevo-Cherkessiya, Bermamyt Plateau, 1200 m, 43.42 N | 42.26 E. 2011-09-05. Prov: Garden - wild origin.
- 10 ***Astrantia minor* L.**
Acc: 1992-1016, lpen: FR-0-GB-1992-1016, CollNo: J&JA 221.002, FRA: Alpes-Maritimes, Vallon de laGordolasque, 1700 m. Prov: Garden - wild origin.
- 11 ***Athamanta turbith* subsp. *hungarica* (Borbás) Tutin**
Acc: 2007-0566, ROU: Mehedinti, Cheile Tesnei. 2005. Collected by G. Groza. Prov: Garden - wild origin.
- 12 ***Bupleurum angulosum* L.**
Acc: 1992-1017, lpen: FR-0-GB-1992-1017, CollNo: J&JA 245.001, FRA: Hautes-Pyrenees, Valle d'Ossoue, 1500 m. Prov: Garden - wild origin.
- 13 ***Eryngium maritimum* L.**
Acc: 2018-1096, lpen: SE-0-GB-2018-1096, SWE: Bohuslän, Sydkoster, Kilesand, 58,878038 | 11,048813. 2018-10-09. Collected by L. Karnfält. Prov: Wild.
- 14 ***Ferula ovina* (Boiss.) Boiss.**
Acc: 2005-0797, KGZ: Tian-Shan, Fergana Bergkette zum Pass Kok-Bel, 1000 m, 41°43'53 N | 72°53'58 E. 2003. Prov: Garden - wild origin.

- 15 ***Molopospermum peloponnesiacum* W.D.J.Koch**
Acc: 2005-0850, CHE: Gondo/Wallis. Prov: Garden - wild origin.
- 16 ***Molopospermum peloponnesiacum* subsp. *bauhinii* I.Ullmann**
Acc: 2007-1248, ITA: Matajur. 2006. Prov: Garden - wild origin.
- 17 ***Olymposciadium caespitosum* (Sm.) H.Wolff**
Acc: 1987-0396, TUR. Prov: Garden - wild origin.
- 18 ***Seseli gracile* Waldst. & Kit.**
Acc: 2010-0486, ROU: Valcea, Valea Calinesti. Collected by M. Puscas & T. Ursu. Prov: Garden - wild origin.
- 19 ***Seseli malyi* A.Kern.**
Acc: 2016-0044, SVN: Snezik. Collected by J. Bavcon. Prov: Garden - wild origin.

Apocynaceae

- 20 ***Amsonia hubrichtii* Woodson**
Acc: 2008-0351, USA: AR, Montgomery, Watachaw Mt, Woodson. Prov: Garden - wild origin.

Araceae

- 21 ***Amorphophallus albus* Liu & Wei**
Tubers. Acc: 2010-2817. Plant source: Botanischer Garten der Universität Hamburg (no. BG 00276).
Prov: Garden - wild origin.
- 22 ***Amorphophallus impressus* Ittenb.**
Tubers. Acc: 2009-1820, MWI: South of Chitipa. 2003. Collected by Wrinkle. Plant source: Botanischer Garten der Universität Hamburg (no. H.AM 1381). Prov: Garden - wild origin.
- 23 ***Amorphophallus thaiensis* S-Y.Hu**
Tubers. Acc: 2010-1659, THA. 1997. Collected by Sizemore. Plant source: Botanischer Garten der Universität Hamburg (no. 2017-G-137). Prov: Garden - wild origin.
- 24 ***Amorphophallus variabilis* Blume**
Tubers. Acc: 2010-1649, IDN: Java, Bogor. Collected by Hambali & Suchy. Plant source: Botanischer Garten der Universität Hamburg (no. 2007-G-141). Prov: Garden - wild origin.
- 25 ***Arisaema consanguineum* Schott.**
Acc: 2008-2391, Ipen: CN-0-GB-2008-2391, CollNo: HeHeHe 010, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 1180 m. Prov: Garden - wild origin.
- 26 ***Arisaema sachalinense* (Miyabe & Kudô) J.Murata**
Acc: 2010-1412. Prov: Garden.
- 27 ***Arum purpureospathum* P.C.Boyce**
Acc: 1991-1541, CollNo: Boyce 51, GRC: Crete, Agia Roumeli. 1985-04-10. Prov: Garden - wild origin.

Araliaceae

- 28 ***Aralia hispida* Vent.**
Acc: 1983-0469, Ipen: CA-0-GB-1983-0469, CAN: New Brunswick. Prov: Garden - wild origin.

Asparagaceae

- 29 ***Anthericum liliago* L.**
Acc: 1984-0614, Ipen: SE-0-GB-1984-0614, SWE: Skåne. Prov: Garden - wild origin.

- 30 *Anthericum ramosum* L.**
Acc: 2010-1772, Ipen: SE-0-GB-2010-1772, CollNo: EF 10-09, SWE: Gotland, close to Sjaustru, Östergarnslandet, 57 38,53 N | 18 77,96 E. 2010-07-08. Prov: Garden - wild origin.
- 31 *Bellevalia forniculata* (Fomin) Delaunay**
Acc: 1988-0864, Ipen: TR-0-GB-1988-0864, CollNo: OS 1130, TUR: Erzurum, 2200 m. Prov: Garden - wild origin.
- 32 *Hosta venusta* F.Maek.**
Acc: 1992-1845, Ipen: XX-0-GB-1992-1845. Prov: Garden.
- 33 *Muscari armeniacum* Leichtlin ex Baker**
Acc: 2011-1707, Ipen: RU-0-GB-2011-1707, CollNo: NCE054, RUS: Stavropol'skiy Kray, Mt. Beshtau, 1000-1400 m, 44.05 N | 43.01 E. 2011-09-03. Prov: Garden - wild origin.
- 34 *Muscari botryoides* (L.) Mill.**
Acc: 1985-0757, Ipen: YU-0-GB-1985-0757, CollNo: HZ 85-10, YUG: Montenegro, Cakor Pass. Prov: Garden - wild origin.
- 35 *Muscari commutatum* Guss.**
Acc: 2007-1795, Ipen: IQ-0-GB-2007-1795, CollNo: EGO.IQ 146, IRQ: Kurdistan Region, Erbil to Sulimanya, ca 20 km SE of Erbil, Botanical garden site. 2007-04-30. Prov: Garden - wild origin.
- 36 *Muscari cycladicum* P.H.Davis & D.C.Stuart**
Acc: 2009-0255, CollNo: Raus 10473, GRC: Ägäis, Nomos Kikladon, Satorin, Profitis Ilias. Prov: Garden - wild origin.
- 37 *Muscari kerkis* T.Karlén**
Acc: 2003-1290, Ipen: GR-0-GB-2003-1290, CollNo: AS 54666, GRC: Samos, Mt Kerki, summit area, 1200-1430 m, 37° 44' N | 26° 37' E. 2003-06-03. Prov: Garden - wild origin.
- 38 *Muscari neglectum* Guss. ex Ten.**
Acc: 2006-1902, Ipen: GR-0-GB-2006-1902, CollNo: AS 56076, GRC: Island of Rodos, Mt Ataviros just W of the summit, 1000-1100 m, 36°13' N | 27°52' E. 2006-05-10. Prov: Garden - wild origin.
- 39 *Muscari pulchellum* Heldr. & Sart. subsp. *pulchellum***
Acc: 2009-0258, GRC: Peloponessos, Nomos Arkadias, Mts Menalon, Ostrakina, 1600 m. Collected by Beurton/Matthäs. Prov: Garden - wild origin.

Asphodelaceae

- 40 *Eremurus altaicus* (Pall.) Steven**
Acc: 2005-0662, CHN: Xinjiang, Tian Shan, Tian Chi near temple Wang Mu Miao, 1950 m, 43°53'50 N | 88°70'55 E. 2003-10-02. Collected by P. Sekerka, E. Chvosta & L. Prokopova. Prov: Garden - wild origin.
- 41 *Eremurus soogdianus* (Regel) Benth. & Hook.f.**
Acc: 2011-0254, KGZ: Jalah Abad, Fergana Range, Arslambob, oberhalb Djerada, 1400 m. 2009-07-05. Collected by P. Borchart. Prov: Garden - wild origin.
- 42 *Eremurus tianschanicus* Pazij & Vved. ex Pavlov**
Acc: 1997-0286, CollNo: GH 9621, KAZ: Talasskiy Alatau range, Koksay canyon on Kazakhstan/Kirghizia border, 1700 m. Prov: Garden - wild origin.

Asteraceae

- 43 *Aetheopappus caucasicus* Sosn.**
Acc: 2011-1744, Ipen: RU-0-GB-2011-1744, CollNo: NCE095, RUS: Karachayevo-Cherkessiya, Bermamyt Plateau, 2500 m, 43.42 N | 42.26 E. 2011-09-05. Prov: Garden - wild origin.

- 44 *Anaphalis hancockii* Maxim.**
Acc: 2008-2499, Ipen: CN-0-GB-2008-2499, CollNo: HeHeHe 114, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 2800-2760 m. 2008-09-20. Prov: Garden - wild origin.
- 45 *Aster amellus* L.**
Acc: 2007-1244, SVN: Ob Soci pri Idrskem. 2006. Prov: Garden - wild origin.
- 46 *Centaurea abbreviata* (K.Koch) Hand.-Mazz.**
Acc: 2011-1674, Ipen: RU-0-GB-2011-1674, CollNo: NCE021, RUS: Stavropol'skiy Kray, Mt. Beshtau, 600-900 m, 44.07 N | 43.02 E. 2011-09-03. Prov: Garden - wild origin.
- 47 *Galatella dracunculoides* Nees**
Acc: 2011-2140, Ipen: RU-0-GB-2011-2140, CollNo: NCE334, RUS: Stavropol'skiy Kray, Mount Strizament, 500 m, 44.50 N | 41.57 E. 2011-09-14. Prov: Garden - wild origin.
- 48 *Hymenoxys hoopesii* (A.Gray) Bierner**
Acc: 2016-0693, USA: CO, Routt Co., Wildflower Ranch, 2499 m. 2014-07-01. Collected by Mike Kintgen. Prov: Garden - wild origin.
- 49 *Inula hirta* L.**
Acc: 1998-0895, CZE: Breclav, Pagus Novy Prerov. Prov: Garden - wild origin.
- 50 *Inula magnifica* Lipsky**
Acc: 1924-0014. Prov: Garden.
- 51 *Leontopodium japonicum* Miq. var. *japonicum***
Acc: 2008-2585, Ipen: CN-0-GB-2008-2585, CollNo: HeHeHe 198, CHN: Shaanxi, Daba Shan above Langao, 1900 m. 2008-09-23. Prov: Garden - wild origin.
- 52 *Leontopodium nivale* (Ten.) A.Huet ex Hand.-Mazz.**
Acc: 2016-0633, Ipen: XX-0-HAL-5998. Prov: Garden - wild origin.
- 53 *Parasenecio hastatus* (L.) H.Koyama**
Acc: 2008-2581, Ipen: CN-0-GB-2008-2581, CollNo: HeHeHe 195, CHN: Shaanxi, Daba Shan above Langao, 1900 m. 2008-09-23. Prov: Garden - wild origin.
- 54 *Saussurea iodostegia* Hance**
Acc: 2013-0162, Ipen: CN-0-GB-2008-2432, CollNo: HeHeHe 050, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 3400 m. 2008-09-19. Prov: Garden - wild origin.
- 55 *Wyethia helianthoides* Nutt.**
Acc: 1992-1484, Ipen: US-0-GB-1992-1484, CollNo: P.&Z. 92-104, USA: Idaho, Blaine Co., 12 miles N of Ketchum. Meadow., 1900 m. 1992-07-06. Prov: Garden - wild origin.
- 56 *Wyethia mollis* A.Gray**
Acc: 1993-0747, USA: California, Placer Ct., Sierra Nevada above Squaw Valley. Prov: Garden - wild origin.

Berberidaceae

- 57 *Gymnospermium albertii* (Regel) Takht.**
Acc: 1987-0585, Ipen: XX-0-GB-1987-0585. Prov: Garden - wild origin.
- 58 *Gymnospermium odessanum* (Dc) Takht.**
Acc: 1959-0051. Prov: Garden - wild origin.
- 59 *Podophyllum hexandrum* Royle**
Acc: 1984-0580, Ipen: PK-0-GB-1984-0580, CollNo: SEP 526, PAK: Gilgit, Naltar valley, above Naltar Resthouse, 2870 m. Prov: Garden - wild origin.
- 60 *Ranzania japonica* T.Ito**
Acc: 1994-2325, Ipen: XX-0-GB-1980-0097. Prov: Garden.

Boraginaceae

61 *Arnebia pulchra* (Willd. ex Roemer & Schultes) J.Edmondson

Acc: 2011-2014, Ipen: RU-0-GB-2011-2014, CollNo: NCE302, RUS: Karachayevo-Cherkessiya, Arkhyz, path to Sofia lakes, 2100-2700 m, 43.27 N | 41.14 E. 2011-09-11. Prov: Garden - wild origin.

Brassicaceae

62 *Draba polytricha* Ledeb.

Acc: 1989-0617, Ipen: TR-0-GB-1989-0617, CollNo: J&JA 421.501, TUR: Trabzon, Soganli Da, 2300 m. Prov: Garden - wild origin.

63 *Iberis aurosica* Chaix

Acc: 1992-0959, FRA: Hautes Alpes, Massif de l'Aurouze. Prov: Garden - wild origin.

64 *Iberis sempervirens* L.

Acc: 2001-1143, Ipen: BG-0-GB-2001-1143, CollNo: S,KT&V 51137, BGR: W. Rodhopi, between Trigrad and the lakes Chairite, 1300-1400 m, 41° 36' N | 24° 26' E. 2000-10-11. Prov: Garden - wild origin.

65 *Pachyphragma macrophyllum* (Hoffm.) N.Busch

Acc: 2011-1673, Ipen: RU-0-GB-2011-1673, CollNo: NCE020, RUS: Stavropol'skiy Kray, Mt. Beshtau, 600-900 m, 44.07 N | 43.02 E. 2011-09-03. Prov: Garden - wild origin.

Campanulaceae

66 *Campanula betulifolia* K.Koch

Acc: 1987-0249, Ipen: TR-0-GB-1987-0249, CollNo: J&JA 252.005, TUR: Trabzon, 2200 m. Prov: Garden - wild origin.

67 *Campanula fenestrellata* Feer

Acc: 1985-0525, Ipen: YU-0-GB-1985-0525, YUG: Javlanac, 550 m. Prov: Garden - wild origin.

68 *Campanula komarovii* Maleev

Acc: 2017-0692, Ipen: RU-0-GB-2011-2137, CollNo: NCE331, RUS: Stavropol'skiy Kray, Mount Strizament, 800 m, 44.46 N | 42.02 E. 2011-09-14. Prov: Garden - wild origin.

69 *Campanula lactiflora* M.Bieb.

Acc: 2011-1849, Ipen: RU-0-GB-2011-1849, CollNo: NCE183, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2200-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.

70 *Campanula moravica* (Spitzner) Kovanda

Acc: 1994-1682, SVK: Kovanda, Zobor. Prov: Garden - wild origin.

71 *Campanula portenschlagiana* Schult.

Acc: 1991-0276, Ipen: HR-0-GB-1991-0276, CollNo: J&JA 260.800, HRV: Above Mala Duba SE of Makarska, 50 m. Prov: Garden - wild origin.

72 *Campanula rotundifolia* subsp. *groenlandica* (Berlin) Á.Löve & D.Löve

Acc: 2018-1105, Ipen: NO-0-GB-2018-1105, CollNo: J.NIL 18-3, NOR: Jotunheimen, 15 km W of Randsverk, 61°40'43.4"N | 8°47'44.4"E. Prov: Wild.

73 *Campanula sarmatica* Ker Gawl.

Acc: 2011-1700, Ipen: RU-0-GB-2011-1700, CollNo: NCE047, RUS: Stavropol'skiy Kray, Mt. Beshtau, 1000-1400 m, 44.05 N | 43.01 E. 2011-09-03. Prov: Garden - wild origin.

74 *Campanula versicolor* Andrews

Acc: 2012-2318, CollNo: Kit Tan & G. Vold 31123a, GRC: Ilias, road to plateau of Astras, 1150 m. Prov: Garden - wild origin.

- 75** *Campanula woronowii* Kharadze
Acc: 2011-1896, Ipen: RU-0-GB-2011-1896, CollNo: NCE227, RUS: Karachayevo-Cherkessiya, Chumka waterfall, 1500 m, 43.24 N | 41.44 E. 2011-09-08. Prov: Garden - wild origin.
- 76** *Codonopsis pilosula* (Franch.) Nannf.
Acc: 2008-2608, Ipen: CN-0-GB-2008-2608, CollNo: HeHeHe 221, CHN: Shaanxi, Nan Gong Shan, 2100 m. 2008-09-24. Prov: Garden - wild origin.

Caprifoliaceae

- 77** *Lonicera pyrenaica* L.
Acc: 2013-0152, Ipen: FR-0-GB-1987-0973, CollNo: HZ 87-50, FRA: C Pyrenees, Lac d'Oo. Prov: Garden - wild origin.
- 78** *Patrinia heterophylla* Bunge
Acc: 2008-2694, Ipen: CN-0-GB-2008-2694, CollNo: HeHeHe 298, CHN: Shaanxi, Qin Ling mountains, Kaizeping, 1820 m. 2008-10-02. Prov: Garden - wild origin.
- 79** *Valeriana alliariifolia*
Acc: 2011-1919, Ipen: RU-0-GB-2011-1919, CollNo: NCE248, RUS: Karachayevo-Cherkessiya, Arkhyz, slopes W of the village, 1600 m, 43.34 N | 41.17 E. 2011-09-09. Prov: Garden - wild origin.
- 80** *Valeriana montana* L.
Acc: 2010-1238, AUT: Kärnten, Karnische Alpen, Hermagor, W Zottachkopf, entlang des Abstieges von der Rattendorfer Schneid zur Rattendorfer Alm., 1800 m, 46°34'24" N | 13°11'55" E. Collected by G. Riegler & H. Riegler-Hager. Prov: Garden - wild origin.
- 81** *Valeriana tiliifolia* Troitsky
Acc: 2011-1895, Ipen: RU-0-GB-2011-1895, CollNo: NCE226, RUS: Karachayevo-Cherkessiya, Chumka waterfall, 1500 m, 43.24 N | 41.44 E. 2011-09-08. Prov: Garden - wild origin.

Caryophyllaceae

- 82** *Arenaria pseudacantholimon* Bornm.
Acc: 2015-0877, TUR: Palandok, 2300 m. 2010. Collected by V. Holubec. Prov: Garden - wild origin.
- 83** *Dianthus arenarius* L.
Acc: 2010-1098, SWE: Skåne, Vitemölla. Prov: Garden - wild origin.
- 84** *Dianthus borbassii* Vandas
Acc: 2013-0814, RUS: Stavropol, Mt Mashuk, 650 m. 2012-07-22. Prov: Garden - wild origin.
- 85** *Dianthus caucaseus* Sm.
Acc: 2011-1676, Ipen: RU-0-GB-2011-1676, CollNo: NCE023, RUS: Stavropol'skiy Kray, Mt. Beshtau, 1000-1400 m, 44.05 N | 43.01 E. 2011-09-03. Prov: Garden - wild origin.
- 86** *Dianthus giganteus* d'Urv.
Acc: 2007-1281, ROU: Cluj, Cheile Turzi. Collected by G. Groza. Prov: Garden - wild origin.
- 87** *Eremogone dianthoides* (Sm.) Ikonn.
Acc: 2011-1806, CollNo: NCE153, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2500-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.
- 88** *Minuartia circassica* (Albov) Woronow ex Grossh.
Acc: 1982-0401, Ipen: GE-0-GB-1982-0401, CollNo: HZ 82-88, RUS: Kaukasus, Tscheget, 2500 m. Prov: Garden - wild origin.
- 89** *Saponaria pumila* Janch.
Acc: 2012-0473, AUT: Steiermark, Lavantaler Alpen, Seetaler Alpen, Zirbitzkogelgebiet: Ost-Aufstieg zum Zirbitzkogel von der Waldheimtte, 1850-2350 m. Prov: Garden - wild origin.

Colchicaceae

90 *Colchicum szovitsii* Fisch. & Meyer

Acc: 1984-0305, lpen: AM-0-GB-1978-0042, ARM: Daralaghez, between Martiros and Sevs. 1978-04-14. Collected by N. Gabrielian. Prov: Garden - wild origin.

Crassulaceae

91 *Phedimus selskianus* (Regel & Maack) 't Hart

Acc: 2009-0788, RUS: Sibirien, Primorskii Krai, near village of Turi Rog. 2007. Prov: Garden - wild origin.

92 *Sedum populifolium* Pall.

Acc: 1964-3883. Prov: Garden.

Diapensiaceae

93 *Schizocodon ilicifolius* Maxim.

Acc: 1984-0509, lpen: XX-0-GB-1984-0509. Prov: Garden.

Dioscoreaceae

94 *Dioscorea balcanica* Košanin

Acc: 2004-2222, CollNo: KT 27830, SRB: Vojvodina, SE Banat Prov., cultivated in Bot. Garden "Jevremovac". 2004-09-08. Prov: Garden - wild origin.

Ericaceae

95 *Elliottia bracteata* (Maxim.) Benth. & Hook.f.

Acc: 1955-0011, lpen: JP-0-GB-1955-0011, CollNo: Murai 080, JPN: Honshu, Mt Hakkoda, 1000 m. Prov: Garden - wild origin.

96 *Rhododendron camtschaticum* Pall. f. *album*

Acc: 1983-0260, lpen: XX-0-GB-1983-0260, CollNo: JHF 44. Prov: Garden - wild origin.

Fabaceae

97 *Anthyllis montana* L.

Acc: 2011-0306, FRA: Var, Ste-Baume. Prov: Garden - wild origin.

98 *Caragana brevispina* Benth

Acc: 1955-0013, lpen: NP-0-GB-1955-0013, NPL. Prov: Garden - wild origin.

99 *Cytisophyllum sessilifolium* Lang

Acc: 1998-0281, FRA: Alpes Maritimes. Prov: Garden - wild origin.

100 *Cytisus battandieri* Maire

Acc: 1993-10007, lpen: MA-0-GB-1991-1191, CollNo: EAC 057, MAR: Taza, Moyen Atlas, Jebel Tazzeke, 1940-1980 m. 1990-10-07. Prov: Garden - wild origin.

101 *Hedysarum caucasicum* M.Bieb.

Acc: 2011-1926, lpen: RU-0-GB-2011-1926, CollNo: NCE253, RUS: Karachayevo-Cherkessiya, Arkhyz, path to Sofia Glacier, 2000-2200 m, 43.27 N | 41.16 E. 2011-09-10. Prov: Garden - wild origin.

102 *Lathyrus aureus* (Stev.) D.Brandza

Acc: 2007-0914, CollNo: AG&WL 209-1, GEO: Ratscha, between Paracheti and M'Tiscalta, near Paracheti, 1800 m, 42°30' N | 43°21' E. 2002-08-16. Prov: Garden - wild origin.

- 103 *Sophora stenophylla* A.Gray**
Acc: 1989-0595, Ipen: US-0-GB-1989-0595, USA: Utah, LN. Utah, Kane Co. Prov: Garden - wild origin.
- 104 *Thermopsis rhombifolia* (Nutt. ex Pursh) Richardson**
Acc: 1986-1220, Ipen: US-0-GB-1986-1220, CollNo: HZ 86-78, USA: New Mexico. Prov: Garden - wild origin.
- 105 *Trifolium trichocephalum* M.Bieb.**
Acc: 2002-0845. Prov: Garden.
- 106 *Vicia amurensis* Oett.**
Acc: 2002-1020, RUS: Primorsky, Russky Island. Prov: Garden - wild origin.

Gentianaceae

- 107 *Gentiana asclepiadea* L.**
Acc: 1991-1005, AUT: Salzburg, Osterhorngruppe, Genneralm, 1360 m. Prov: Garden - wild origin.

Geraniaceae

- 108 *Geranium asphodeloides* Burm.f.**
Acc: 2007-2267, Ipen: GR-0-GB-2007-2267, CollNo: AS 56339, GRC: Messinias, Kalamon, Taigetos, Langada pass, road to Pagadia, 1450 m, 37°04' N | 22°15' E. 2007-11-15. Prov: Garden - wild origin.
- 109 *Geranium gymnocaulon* DC.**
Acc: 2011-1803, Ipen: RU-0-GB-2011-1803, CollNo: NCE159, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2200-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.
- 110 *Geranium renardii* Trautv.**
Acc: 2011-1812, Ipen: RU-0-GB-2011-1812, CollNo: NCE168, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2200-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.
- 111 *Geranium versicolor* L.**
Acc: 2007-2268, Ipen: GR-0-GB-2007-2268, CollNo: AS 56338, GRC: Messinias, Kalamon, Taigetos, Langada pass, road to Pagadia, 1450 m, 37°04' N | 22°15' E. 2007-11-15. Prov: Garden - wild origin.

Hydrangeaceae

- 112 *Jamesia americana* Torr. & A.Gray**
Acc: 1989-0579, Ipen: US-0-GB-1989-0579, USA: Arizona, Pima, 1950-3900 m. Prov: Garden - wild origin.

Hypericaceae

- 113 *Hypericum orientale* L.**
Acc: 2014-0392, CollNo: Gröger & al. 154-49, GEO: Svanetien, Mestia-Ushguli, 1500 m, 43°02'46" N | 42°48'39" E. 2009-08-07. Prov: Garden - wild origin.
- 114 *Hypericum pseudohenryi* N.Robson**
Acc: 1994-0008, Ipen: CN-0-GB-1994-0008, CollNo: KGB 008, CHN: Yunnan, Lijiang, S of Jian Chuan, 2520 m. 1993-09-14. Prov: Garden - wild origin.

Iridaceae

- 115 *Crocus adanensis* Bayt. & Math.**
Acc: 1990-1752, Ipen: TR-0-GB-1990-1752, CollNo: KPPZ 90-093, TUR: Seyhan, Amanus, above Haruniye, Kurt Kalesi, 1000-1050 m. 1990-04-06. Prov: Garden - wild origin.
- 116 *Crocus aeri*us Herb.**
Acc: 1992-2120, Ipen: TR-0-GB-1992-2120, CollNo: OS 547, TUR: 17 km S of Hamisiköy, Zigana pass, 2050 m. 1978-04-26. Prov: Garden - wild origin.
- 117 *Crocus alatavicus* Regel & Semenow**
Acc: 1992-1996, Ipen: KZ-0-GB-1992-1996, KAZ: Karatau Mts, Saja-Su valley. Prov: Garden - wild origin.
- 118 *Crocus danfordiae* Maw**
Acc: 1990-1921, Ipen: TR-0-GB-1990-1921, CollNo: KPPZ 90-249, TUR: Sivas, 90 km before Sivas from Kizildag, 1650 m. 1990-04-13. Prov: Garden - wild origin.
- 119 *Crocus gilanicus* B.Mathew**
Acc: 2006-0617, Ipen: XX-0-GB-1987-0931. Prov: Garden.
- 120 *Crocus kerndorffiorum* E.Pasche**
Acc: 1992-1840, Ipen: TR-0-GB-1992-1840, CollNo: HKEP 9010, TUR: Taurus Mts. Prov: Garden - wild origin.
- 121 *Crocus oreocreticus* B.L.Burt f. *albus***
Acc: 1986-0751, CollNo: B&M 10124, GRC: Crete, 1100-1900 m. Prov: Garden - wild origin.
- 122 *Crocus paschei* Kerndorff**
Acc: 1994-2613, Ipen: TR-0-GB-1991-1504, CollNo: HKEP 9034, TUR: Taurus Mts. Prov: Garden - wild origin.
- 123 *Crocus pulchellus* Herb.**
Acc: 2009-1763, Ipen: GR-0-GB-2009-1763, CollNo: AS 56513, GRC: Chios, Mt. Pelineo, between the chapel of Zoodochos Pigi and the summit, 1050-1250 m, 38°33' N | 26°00' E. 2009-04-16. Prov: Garden - wild origin.
- 124 *Crocus thomasii* Ten.**
Acc: 1986-0814, Ipen: YU-0-GB-1986-0814, CollNo: BM 7589, YUG: S, Near Zadar, at foot of Halan Malu Pass. Prov: Garden - wild origin.
- 125 *Iris paradoxa* Steven**
Acc: 1990-1139. Prov: Garden.
- 126 *Iris sanguinea* Donn ex Hornem.**
Acc: 1988-0801, PRK: S.Hwange, 900 m. Prov: Garden - wild origin.

Lamiaceae

- 127 *Clinopodium dalmaticum* (Benth.) Bräuchler & Heubl**
Acc: 2001-1134, Ipen: BG-0-GB-2001-1134, CollNo: S,KT&V 51098, BGR: W. Rodhopi, 2 km S of the village of Trigrad, 1250 m, 41° 35' N | 24° 23' E. 2000-10-11. Prov: Garden - wild origin.
- 128 *Dracocephalum austriacum* L.**
Acc: 2011-1857, Ipen: RU-0-GB-2011-1857, CollNo: NCE188, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2200-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.
- 129 *Dracocephalum ruyschiana* L.**
Acc: 2011-1705, Ipen: RU-0-GB-2011-1705, CollNo: NCE052, RUS: Stavropol'skiy Kray, Mt. Beshtau, 1000-1400 m, 44.05 N | 43.01 E. 2011-09-03. Prov: Garden - wild origin.

- 130 *Lavandula angustifolia* Mill. subsp. *pyrenaica* (DC.) Guinea**
Acc: 1990-1030, FRA: Pyrénées-Orientales, Vallée de Llo. Prov: Garden - wild origin.
- 131 *Monarda fistulosa* var. *menthifolia* (Graham) Fernald**
Acc: 2010-2344, CAN: BC, Barriere. 2009. Collected by Bodil Leamy. Prov: Garden - wild origin.
- 132 *Salvia canescens* C.A.Mey.**
Acc: 2015-0980, RUS: Kabardino-Balkarian Rep., the Elbrusskiy ditrict, Bilim village, 1200 m. 2014-08-30. Prov: Garden - wild origin.
- 133 *Salvia transsylvanica* (Schur ex Griseb.) Schur**
Acc: 2013-0800, ROU: Cluj, Borsa. Collected by S. Muncaciu & M. Barbos. Prov: Garden - wild origin.
- 134 *Salvia verticillata* L.**
Acc: 2011-1683, Ipen: RU-0-GB-2011-1683, CollNo: NCE030, RUS: Stavropol'skiy Kray, Mt. Beshtau, 1000-1400 m, 44.05 N | 43.01 E. 2011-09-03. Prov: Garden - wild origin.
- 135 *Satureja parnassica* subsp. *athoa* (K.Maly) Baden**
Acc: 1993-2230, CollNo: PA 158, GRC: Mt Athos. Prov: Garden - wild origin.
- 136 *Stachys macrantha* (K.Koch) Stearn**
Acc: 2011-1807, Ipen: RU-0-GB-2011-1807, CollNo: NCE163, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2200-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.
- 137 *Thymus nummularius* M.Bieb.**
Acc: 2011-1763, Ipen: RU-0-GB-2011-1763, CollNo: NCE116, RUS: Karachayevo-Cherkessiya, Bermamyt Plateau, 2500 m, 43.42 N | 42.26 E. 2011-09-05. Prov: Garden - wild origin.
- 138 *Thymus tiflisiensis* Klokov & Des.-Shost.**
Acc: 2014-0155, CollNo: Gröger & Loblin 301-3, GEO: Kartli, between Tiflis and Didgori, near Tiflis, 1400-1600 m, 41°43.266' N | 44°27.427' E. Prov: Garden - wild origin.

Liliaceae

- 139 *Fritillaria affinis* (Schultes) Sealy var. *affinis***
Acc: 2010-2347, CollNo: T&AW 09-30, CAN: BC, Nanaimo Regional District C, Harewood Plain. 2009. Prov: Garden - wild origin.
- 140 *Fritillaria aurea* Schott × *fleischeriana* Steud. & Hochst. ex Schult. & Schult.f.**
Acc: 1984-0503, Ipen: TR-0-GB-1984-0503, CollNo: Rix 1601, TUR: Kayseri-Maltya. Natural hybrid. Prov: Garden - wild origin.
- 141 *Fritillaria bithynica* Baker**
Acc: 1987-0498, Ipen: GR-0-GB-1987-0498, GRC: Samos. Prov: Garden - wild origin.
- 142 *Fritillaria bucharica* Regel.**
Acc: 1984-0714, SUN: Uzbekistan, Hissara. Prov: Garden - wild origin.
- 143 *Fritillaria chlororhabdota* Bakhshi Khan.**
Acc: 1994-2237, Ipen: IR-0-GB-1994-2237, CollNo: GBK 066, IRN: Kordestan, 40 km E of Sanandaj, Salavatabad, 1700-1900 m. 1995-05-06. Prov: Garden - wild origin.
- 144 *Fritillaria crassifolia* subsp. *hakkarensis* Rix**
Acc: 1991-1526, Ipen: TR-0-GB-1991-1526, TUR: SE. Prov: Garden - wild origin.
- 145 *Fritillaria fleischeriana* Steud. & Hochst. ex Schult.f.**
Acc: 2006-0644, Ipen: TR-0-GB-1991-1197, TUR: 3 km S Eskisehir, 960 m. Prov: Garden - wild origin.
- 146 *Fritillaria glauca* Greene**
Acc: 1990-0362, Ipen: US-0-GB-1990-0362, CollNo: JAN 89-142, USA: California, Lake Co, Hull mtn, 2020 m. Prov: Garden - wild origin.

- 147 *Fritillaria graeca* Boiss. & Spruner**
Acc: 2010-2327, CollNo: KT & GV 30855, GRC: Nomos Achaias/Korinthias, Mt Saitas. Prov: Garden - wild origin.
- 148 *Fritillaria kotschyana* Herb.**
Acc: 1998-1871, lpen: IR-0-GB-1998-1871, CollNo: SLIZE 068, IRN: Siah Bisheh, N facing Quercus forest, rich meadows, lime-stone cliffs, 2200-2350 m. 1998-05-11. Prov: Garden - wild origin.
- 149 *Fritillaria meleagroides* Patr. ex Schult.f.**
Acc: 2005-0666, RUS: Samara Oblast, Koschkin. 2003. Collected by V.V. Korneva & al. Prov: Garden - wild origin.
- 150 *Fritillaria minima* Rix**
Acc: 1982-0350, lpen: TR-0-GB-1982-0350, CollNo: OS 824, TUR: 18 km W of road from Catak to Bahcesary, 2450 m. 1982-06-12. Prov: Garden - wild origin.
- 151 *Fritillaria minuta* Boiss. & Noë**
Acc: 1986-0853, CollNo: L&P 72-41, TUR: Between Taturan and Mus approx 62 km E of Mus, 1650 m. Prov: Garden - wild origin.
- 152 *Fritillaria montana* Hoppe**
Acc: 1998-0102, lpen: GR-0-GB-1998-0102, CollNo: Strid & al. 89-84-07, GRC: Florinis, Mt. Boutsis, central part, 1450-1550 m, 40° 39' N | 21° 08' E. 1989-05-10. Prov: Garden - wild origin.
- 153 *Fritillaria pinardii* Boiss.**
Acc: 1990-1699, lpen: TR-0-GB-1990-1699, CollNo: KPPZ 90-040, TUR: Konya, Pass Karahasan Gedigi, 50 km from Ermenek towards Hadim, 1750-1800 m. 1990-04-03. Prov: Garden - wild origin.
- 154 *Fritillaria pudica* (Pursh) Sprengel**
Acc: 1984-0504, lpen: CA-0-GB-1984-0504, CAN: S. Alberta. Prov: Garden - wild origin.
- 155 *Fritillaria raddeana* Regel**
Acc: 1994-2263, lpen: IR-0-GB-1994-2263, CollNo: GBK 048, IRN: Mazendaran, Gorgan to Bojnurd, 900-1700 m. 1994-04-28. Prov: Garden - wild origin.
- 156 *Fritillaria reuteri* Boiss.**
Acc: 1994-2266, lpen: IR-0-GB-1994-2266, CollNo: GBK 093, IRN: Esfahan, road from Khunsar to Daran, SE of Damaneh, Cheheldokhtaran Kuh, 2900 m. 1994-05-14. Prov: Garden - wild origin.
- 157 *Fritillaria ruthenica* Wikstr.**
Acc: 2012-0289, RUS: Samara, Kinel'ski, Krasnosamarskoye lesnichestvo. Collected by Kavelenova L.M., Korchikov E.S., Rozno S.A., Ruzaeva I.V., Pomoghaibin A.V. Prov: Garden - wild origin.
- 158 *Fritillaria sororum* Jimmy Persson & K.Perss.**
Acc: 1987-0702, lpen: TR-0-GB-1987-0702, CollNo: JP 87-99, TUR: The road Anamur-Ermenek, 24 km from A, 500 m. Prov: Garden - wild origin.
- 159 *Fritillaria straussii* Bornm.**
Acc: 1994-2269, lpen: IR-0-GB-1994-2269, CollNo: GBK 052, IRN: Kermanshah. Prov: Garden - wild origin.
- 160 *Fritillaria thunbergii* Miq.**
Acc: 1985-0236, lpen: XX-0-GB-1985-0236. Prov: Garden.
- 161 *Fritillaria tubiformis* subsp. *moggridgei* Rix**
Acc: 1991-0463, FRA: Alpes-Maritimes. Prov: Garden - wild origin.
- 162 *Lilium canadense* L.**
Acc: 1991-1153. Prov: Garden.
- 163 *Lilium davidii* Elwes var. *willmottiae* (E.H.Wilson) Raffill**
Acc: 2008-2638, lpen: CN-0-GB-2008-2638, CollNo: HeHeHe 245, CHN: Shaanxi, Nan Gong Shan, 2240 m. 2008-09-25. Prov: Garden - wild origin.

- 164 *Lilium hansonii* Leichtlin ex D.T.Moore**
Acc: 1979-3730, lpen: XX-0-GB-1979-3730. Prov: Garden.
- 165 *Tricyrtis latifolia* Maxim.**
Acc: 2008-2582, lpen: CN-0-GB-2008-2582, CollNo: HeHeHe 196, CHN: Shaanxi, Daba Shan above Langao, 1900 m. 2008-09-23. Prov: Garden - wild origin.
- 166 *Tulipa armena* Boiss.**
Acc: 1992-1974, lpen: TR-0-GB-1992-1974, TUR: 2-3 km N Eskikale, through the village continuing on dirt road, scree slope, 1800 m. Prov: Garden - wild origin.
- 167 *Tulipa armena* Boiss. var. *armena***
Acc: 1986-0462, lpen: TR-0-GB-1986-0462, CollNo: J&JA 6947, TUR: Camlibel Da, 1600 m. Prov: Garden - wild origin.
- 168 *Tulipa biflora* Pall.**
Acc: 1998-1949, lpen: IR-0-GB-1998-1949, CollNo: SLIZE 278 B, IRN: Kuh Barfkhane, S Shir Kuh proper, granite cliffs, 2600-2800 m, 31.34 N | 54.08 E. 1998-05-20. Prov: Garden - wild origin.
- 169 *Tulipa ferganica* Vved.**
Acc: 2005-0831, KGZ: Tian-Shan, Fl. Urum-Baschi, NO-seite der Fergana Bergkette, 1600 m. 2003. Prov: Garden - wild origin.
- 170 *Tulipa heterophylla* (Regel) Baker**
Acc: 2005-0819, KGZ: Tian-Shan, Kirgisischer Alatau, Fl. Ala-Archa, 2300 m, 42°34'33 N | 74°28'40 E. 2003. Prov: Garden - wild origin.
- 171 *Tulipa humilis* Herb.**
Acc: 1985-0389, CollNo: Coode B 2985, TUR: Icel Prov. Prov: Garden - wild origin.
- 172 *Tulipa julia* K.Koch**
Acc: 1990-2510, lpen: TR-0-GB-1990-2510, CollNo: OS 1228, TUR: Cakmak Da, Karayazi, 2400 m. Prov: Garden - wild origin.
- 173 *Tulipa kaufmanniana* Regel**
Acc: 1997-0277, CollNo: GH 9609, KAZ: Talasskiy Alatau range, Ulken-Kaindy valley, 13 km ESE of Jabagly village and 85 km SW of Jambul, 2200 m. Prov: Garden - wild origin.
- 174 *Tulipa korshinskyi* Vved.**
Acc: 1988-0481, lpen: SU-0-GB-1988-0481, SUN: Pamir, Kalau-Chumb, 2300 m. Prov: Garden - wild origin.
- 175 *Tulipa micheliana* Hoog**
Acc: 1997-2344, lpen: IR-0-GB-1997-2344, IRN: Khorasan. Prov: Garden - wild origin.
- 176 *Tulipa orphanidea* Boiss. ex Heldr.**
Acc: 1998-2207, lpen: GR-0-GB-1998-2207, CollNo: AS 98-52-02, GRC: Achaia, Egialias, just E of the village of Pirkaki, 780 m, 38° 10' N | 22° 05' E. 1998-04-12. Prov: Garden - wild origin.
- 177 *Tulipa systola* Stapf**
Acc: 1998-1896, lpen: IR-0-GB-1998-1896, CollNo: SLIZE 147, IRN: 15 km from Polishariare to Chelgar, conglomerate and limestone cliffs. 1998-05-14. Prov: Garden - wild origin.
- 178 *Tulipa systola* Stapf**
Acc: 2007-1387, lpen: IQ-0-GB-2007-1387, CollNo: EGO.IQ 112, IRQ: Kurdistan Region, before Sakran village, 1500 m, 36°35' N | 44°54' E. 2007-04-27. Prov: Garden - wild origin.
- 179 *Tulipa turkestanica* (Regel) Regel**
Acc: 1997-0274, CollNo: GH 9601, KAZ: East Karatau range, Kuyuk pass, 30 km SW of Jambul, 900 m. Prov: Garden - wild origin.
- 180 *Tulipa vvedenskyi* Z.Botsch.**
Acc: 1986-0518, Chire-Dara, 2300 m. Prov: Garden - wild origin.

Magnoliaceae

- 181** *Magnolia wilsonii* (Finet & Gagnep.) Rehder
Acc: 1974-0002, lpen: XX-0-GB-1974-0002. Prov: Garden.

Melanthiaceae

- 182** *Melanthium virginicum* L.
Acc: 2006-0351, USA: Missouri, Phelps Co., Rosati, wet prairie remnant along Interstate 44 and railroad, 325 m, 38° 2.096 N | 91° 31.219 W. Prov: Garden - wild origin.
- 183** *Stenanthium gramineum* (Ker Gawl.) Morong
Acc: 1960-0016, lpen: XX-0-GB-1960-0016. Prov: Unrecorded.
- 184** *Trillium sulcatum* T.S.Patrick
Acc: 1975-3785, lpen: XX-0-GB-1975-3785. Prov: Garden.

Paeoniaceae

- 185** *Paeonia lactiflora* Pall.
Acc: 2003-0281, RUS: Primorsky Reg., Oktyabrsky Distr. Prov: Garden - wild origin.
- 186** *Paeonia obovata* Maxim.
Acc: 2008-2643, lpen: CN-0-GB-2008-2643, CollNo: HeHeHe 250, CHN: Shaanxi, Nan Gong Shan, 2100 m. 2008-09-25. Prov: Garden - wild origin.

Papaveraceae

- 187** *Corydalis caseana* subsp. *brandegei* (S.Watson) G.B.Ownbey
Acc: 2005-1255, lpen: US-0-GB-1991-1275, CollNo: HZ 91-023, USA: Colorado, Delta Co., Grand Mesa, above Cedaredge, 20 km N of C., along rd 65, 3300 m. Prov: Garden - wild origin.
- 188** *Corydalis cheilanthifolia* Hemsl.
Acc: 2008-2867, lpen: CN-0-GB-2008-2867, CollNo: HeHeHe 225B, CHN: Shaanxi, Nan Gong Shan, 1950 m. 2008-09-24. Prov: Garden - wild origin.
- 189** *Corydalis malkensis* Galushko
Acc: 1984-0332, lpen: XX-0-GB-1982-0072. Prov: Garden.
- 190** *Papaver atlanticum* (Ball.) Cosson.
Acc: 1991-0399, lpen: MA-0-GB-1991-0399, CollNo: EAC 156, MAR: Marrakech, Haut Atlas, Okaimeden, 2850-3100 m. 1990-10-15. Prov: Garden - wild origin.
- 191** *Pseudofumaria alba* (Mill.) Lidén
Acc: 1985-0760, lpen: YU-0-GB-1985-0760, CollNo: HZ 85-03, YUG: Montenegro, 21 km. Ö. Bioce. Prov: Garden - wild origin.
- 192** *Sanguinaria canadensis* L.
Acc: 2018-1150, lpen: US-0-GB-2018-1150, CollNo: GLUE 030, USA: Ohio, Franklin County, Immediately northwest of Jeffersonville Community Park on Clark State Road and immediately southeast of Clark State Court, ca. 2.0 air miles south of New Albany, 317 m, 40°02.70240' N | 082°47.77560' W. 2018-06-03. Prov: Wild.

Plantaginaceae

- 193** *Penstemon floridus* var. *austinii* (Eastw.) N.H.Holmgren
Acc: 2017-0156, lpen: US-0-GB-2017-0156, CollNo: NNS 101616-01, USA: California, Inyo Co., Inyo Mtns, above Joshua Flat, 1848 m. Prov: Garden - wild origin.

194 *Plantago maxima* Juss. ex Jacq.

Acc: 2015-1048, CollNo: L. Junikka 5125, RUS: Volgogradskaya oblast, Kumylahenska rayon, Zatalovskiy S., 60 m, 49°37'14" N | 42°17'40" E. 2014-08-21. Prov: Garden - wild origin.

195 *Veronica kemulariae* A.I.Kuth.

Acc: 2007-2474, Ipen: GE-0-GB-2007-2474, CollNo: BARAKA 098, GEO: N of Lajanurpheki, 650 m, 42.21.803 N | 43.00.262 E. 2007-05-11. Prov: Garden - wild origin.

Plumbaginaceae

196 *Bukiniczia cabulica* (Boiss.) Lincz.

Acc: 2001-0334, CollNo: SEP 018, PAK. Prov: Garden - wild origin.

Poaceae

197 *Stipa capillata* L.

Acc: 2011-2133, Ipen: RU-0-GB-2011-2133, CollNo: NCE327, RUS: Stavropol'skiy Kray, Mount Strizament, 800 m, 44.46 N | 42.02 E. 2011-09-14. Prov: Garden - wild origin.

Polemoniaceae

198 *Polemonium caucasicum* N.Busch

Acc: 2014-0537, RUS: Karachaevo-Cherkesskaya Rep., Zelenchukskiy district, Arkhyz, the Kizgih river, 2000 m. 2013-09-06. Collected by A. Mikheev, Z. Dutova & D. Schilnikov. Prov: Garden - wild origin.

199 *Polemonium chinense* (Brand) Brand

Acc: 2011-0181, Ipen: CN-0-GB-2008-2529, CollNo: HeHeHe 142, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 2500 m. 2008-09-20. Prov: Garden - wild origin.

Polygonaceae

200 *Pteroxygonum giraldii* Dammer & Diels

Acc: 2013-0512, Ipen: CN-0-GB-2008-2410, CollNo: HeHeHe 029, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 1350-1400 m. 2008-09-18. Prov: Garden - wild origin.

Portulacaceae

201 *Lewisia columbiana* var. *rupicola* (English) C.L.Hitchc.

Acc: 2015-0665, Ipen: US-0-GB-2015-0665, CollNo: NNS 81114-2, USA: WA, Cascade Range, Lewis Co., Lookout Mtn, 1524 m. Prov: Garden - wild origin.

202 *Lewisia tweedyi* (A.Gray) B.L.Rob.

Acc: 2015-0667, Ipen: US-0-GB-2015-0667, CollNo: NNS 7914-3, USA: WA, Wenatchee Mtns, Chelan Co., Tronsen Ridge, 1669 m. Prov: Garden - wild origin.

Primulaceae

203 *Primula ruprechtii* Kusnez.

Acc: 2011-1755, Ipen: RU-0-GB-2011-1755, CollNo: NCE106, RUS: Karachayevo-Cherkessiya, Bermamyrt Plateau, 2500 m, 43.42 N | 42.26 E. 2011-09-05. Prov: Garden - wild origin.

204 *Primula veris* subsp. *macrocalyx* (Bunge) Lüdi

Acc: 2009-0953, Ipen: GE-0-GB-2007-2485, CollNo: BARAKA 110, GEO: Sagurami, around the Monastery St. John's of Georgia, Zedazeni, 1200 m, 41.53.113 N | 44.46.762 E. 2007-05-12. Prov: Garden - wild origin.

Ranunculaceae

- 205 *Aconitum kusnezoffii* Rchb.**
Acc: 1972-0116. Prov: Garden.
- 206 *Aconitum orientale* Mill.**
Acc: 2011-1949, lpen: RU-0-GB-2011-1949, CollNo: NCE265, RUS: Karachayevo-Cherkessiya, Arkhyz, path to Sofia Glacier, 2000-2200 m, 43.27 N | 41.16 E. 2011-09-10. Prov: Garden - wild origin.
- 207 *Actaea cimicifuga* L.**
Acc: 2008-2478, lpen: CN-0-GB-2008-2478, CollNo: HeHeHe 092, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 2800-2760 m. 2008-09-20. Prov: Garden - wild origin.
- 208 *Anemone rivularis* DC.**
Acc: 2008-2490, lpen: CN-0-GB-2008-2490, CollNo: HeHeHe 105, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 2800-2760 m. 2008-09-20. Prov: Garden - wild origin.
- 209 *Aquilegia canadensis* L.**
Acc: 2018-1119, lpen: US-0-GB-2018-1119, CollNo: GLUE 036, USA: Ohio, Madison County, Immediately west of the dead end of Little Darby Road, on the south side of the road between the road and the Little Darby Creek, 289 m, 39°59.38080' N | 083°22.57860' W. 2018-06-04. Prov: Wild.
- 210 *Aquilegia canadensis* L.**
Acc: 2018-1120, lpen: US-0-GB-2018-1120, CollNo: GLUE 044, USA: Ohio, Highland County, Near Fallsville Wildlife Area; Ca. 3.0 air miles southeast of Vienna and ca. 1.25 miles east of State Route 73, on Highland County Road 289, 343 m, 39°17.51760' N | 083°39.03000' W. 2018-06-05. Prov: Wild.
- 211 *Aquilegia flavescens* S.Watson**
Acc: 2016-0036, USA: UT, Wasatch Co. Peachy pink form. Prov: Garden - wild origin.
- 212 *Aquilegia olympica* Boiss.**
Acc: 2011-2000, lpen: RU-0-GB-2011-2000, CollNo: NCE287, RUS: Karachayevo-Cherkessiya, Arkhyz, path to Sofia lakes, 2100-2700 m, 43.27 N | 41.14 E. 2011-09-11. Prov: Garden - wild origin.
- 213 *Clematis columbiana* var. *tenuiloba* (A.Gray) J.S.Pringle**
Acc: 1986-1126, lpen: US-0-GB-1986-1126, CollNo: F&Z 281, USA: Wyoming, Big Horn Nat Forest, east entrance, 1950 m. Prov: Garden - wild origin.
- 214 *Clematis pitcheri* Torr. & A.Gray**
Acc: 1991-1068, USA: Illinois, Tazewell Co. Prov: Garden - wild origin.
- 215 *Clematis potaninii* Maxim.**
Acc: 2008-2705, lpen: CN-0-GB-2008-2705, CollNo: HeHeHe 307, CHN: Shaanxi, Qin Ling mountains, Kaizeping, 2360 m. 2008-10-02. Prov: Garden - wild origin.
- 216 *Delphinium giraldii* Diels & Hand.-Mazz.**
Acc: 2014-0281, lpen: CN-0-GB-2008-2492, CollNo: HeHeHe 107, CHN: Shaanxi, Quin Ling mountains, Taibai Shan, 2800-2760 m. 2008-09-20. Prov: Garden - wild origin.
- 217 *Delphinium hesperium* subsp. *pallescens* (Ewan) F.H.Lewis & Epling**
Acc: 2017-0175, lpen: US-0-GB-2017-0175, CollNo: NNS 102216-07, USA: California, San Benito Co., S Coast Ranges, San Benito River, 753 m. Prov: Garden - wild origin.
- 218 *Eranthis cilicica* Schott & Kotschy**
Acc: 1987-0690, lpen: TR-0-GB-1987-0690, CollNo: JP 87-75, TUR: 8 km from Akseki towards Beyshehir, 1500 m. Prov: Garden - wild origin.
- 219 *Eranthis hyemalis* (L.) Salisb. 'Flore Pleno'**
Acc: 1983-0338, lpen: XX-0-GB-1983-0338. Prov: Garden.
- 220 *Glaucidium palmatum* Siebold & Zucc.**
Acc: 1976-0219, lpen: XX-0-GB-1976-0219. Prov: Garden.

- 221 *Pulsatilla albana* Bercht. & J.Presl.**
Acc: 2011-1825, lpen: RU-0-GB-2011-1825, CollNo: NCE088, RUS: Karachayevo-Cherkessiya, Bermamyt Plateau, 2500 m, 43.42 N | 42.26 E. 2011-09-05. Prov: Garden - wild origin.
- 222 *Pulsatilla montana* (Hoppe) Rchb.**
Acc: 2007-0567, ROU: Satu-Mare, Foieni. 2005. Collected by G. Groza. Prov: Garden - wild origin.
- 223 *Ranunculus gouanii* Willd.**
Acc: 1987-0979, lpen: FR-0-GB-1987-0979, CollNo: HZ 87-08, FRA: C Pyrenees, Superbagneres, Pic de Cesire, 1800 m. Prov: Garden - wild origin.
- 224 *Trollius macropetalus* F.Schmidt**
Acc: 2001-0400, RUS: Primorskiy, Nezhinka River. Prov: Garden - wild origin.
- 225 *Trollius ranunculinus* (Sm.) Stearn**
Acc: 2011-1805, lpen: RU-0-GB-2011-1805, CollNo: NCE161, RUS: Karachayevo-Cherkessiya, Musa Acitara, top station - cable car station, 2200-2900 m, 43.17 N | 41.39 E. 2011-09-07. Prov: Garden - wild origin.
- 226 *Trollius sibiricus* Schipcz.**
Acc: 2004-2273, RUS: Altay, Teletskoye Lake, head of Kokshi River, 435 m, 51°35' N | 87°41' E. Prov: Garden - wild origin.
- 227 *Xanthorhiza simplicissima* Marshall**
Acc: 2018-1132, lpen: US-0-GB-2018-1132, CollNo: GLUE 061, USA: Tennessee, Pickett County, On the east side of State Route 154 ca. 1.6 miles north of the entrance to Pickett State Park and ca. 2.0 miles southwest of the Kentucky/Tennessee state line, 438 m, 36°34.54560' N | 084°47.72340' W. 2018-06-06. Prov: Wild.

Rhamnaceae

- 228 *Rhamnus imeretina* Booth, Petz. & G.Kirchn.**
Acc: 2007-2420, lpen: GE-0-GB-2007-2420, CollNo: BARAKA 047, GEO: Oni to Mamison pass, near village Glola, 1430 m, 42.42.090 N | 43.38.940 E. 2007-05-09. Prov: Garden - wild origin.

Rosaceae

- 229 *Drymocallis halacsyana* (Degen) Kurtto & Strid**
Acc: 1921-0008. Prov: Garden.
- 230 *Oemleria cerasiformis* (Torr. & A.Gray) J.W.Landon**
Acc: 1953-0020, lpen: XX-0-GB-1953-0020. Prov: Garden.
- 231 *Potentilla brachypetala* Fisch. & C.A.Mey. ex Lehm.**
Acc: 2011-1996, lpen: RU-0-GB-2011-1996, CollNo: NCE283, RUS: Karachayevo-Cherkessiya, Arkhyz, path to Sofia lakes, 2100-2700 m, 43.27 N | 41.14 E. 2011-09-11. Prov: Garden - wild origin.
- 232 *Potentilla thurberi* var. *atorrubens* (Rydb.) Kearney & Peebles**
Acc: 2012-2323. Prov: Garden.
- 233 *Prunus prostrata* Labill.**
Acc: 2003-0507, lpen: GR-0-GB-2003-0507, CollNo: Strid & al. 54464, GRC: Evvias, Chalkidos, Mt Dirfi S and E sides, 1300-1700 m, 38°37' N | 23°52' E. 2002-08-03. Prov: Garden - wild origin.
- 234 *Sanguisorba hakusanensis* Makino**
Acc: 1976-0168, lpen: KR-0-GB-1976-0168, CollNo: AG 408 (The Nordic Arboretum Expedition to South Korea 1976), KOR. Prov: Garden - wild origin.

Saxifragaceae

235 *Astilbe chinensis* (Maxim.) Franch. & Sav.

Acc: 2008-2593, lpen: CN-0-GB-2008-2593, CollNo: HeHeHe 206, CHN: Shaanxi, Daba Shan above Langao, 1900 m. 2008-09-23. Prov: Garden - wild origin.

236 *Bergenia stracheyi* (Hook.f. & Thomson) Engl.

Acc: 1984-0543, lpen: PK-0-GB-1984-0543, CollNo: SEP 362, PAK: Swat, Ushu Valley, Mahodan, 3500 m. Prov: Garden - wild origin.

237 *Boykinia occidentalis* Torr. & A.Gray

Acc: 2014-0623, lpen: US-0-GB-2014-0623, CollNo: NNS 91613-4, USA: OR, Lane Co., Cascade Range, Olallie Ridge, 1136 m. Prov: Garden - wild origin.

238 *Mitella diphylla* L.

Acc: 2018-1122, lpen: US-0-GB-2018-1122, CollNo: GLUE 041, USA: Ohio, Highland County, Near Fallsville Wildlife Area, ca. 3.0 air miles southeast of Vienna and ca. 1.25 miles east of State Route 73, on Highland County Road 289, 343 m, 39°17.51760' N | 083°39.03000' W. 2018-06-05. Prov: Wild.

239 *Rodgersia aesculifolia* Batalin var. *henrici* (Franch.) C.Y.Wu ex J.T.Pan

Acc: 1994-0548, lpen: CN-0-GB-1994-0548, CollNo: KGB 548, CHN: Yunnan, c 15 km SW Dêqên, not far from the Lhasa road, 3700 m. 1993-10-01. Prov: Garden - wild origin.

240 *Tiarella cordifolia* L.

Acc: 2018-1121, lpen: US-0-GB-2018-1121, CollNo: GLUE 084, USA: Georgia, Gilmer County, ca. 5.0 air miles northwest of Elijay, on the south side of Chatsworth Highway (Gilmer County Road 52/2), 143 m, 34°46.20360' N | 084°35.33880' W. 2018-06-07. Prov: Wild.

Scrophulariaceae

241 *Digitalis viridiflora* Lindl.

Acc: 2001-1082, lpen: BG-0-GB-2001-1082, CollNo: S,KT&V 51123, BGR: W. Rodhopi, between Trigrad and the lakes Chairite, 1300-1400 m, 41° 36' N | 24° 26' E. 2000-10-11. Prov: Garden - wild origin.

242 *Verbascum phoeniceum* L.

Acc: 2013-0671, ROU: Iasi, Reservatia naturala Valea Ilenei. 2012. Prov: Garden - wild origin.

243 *Verbascum rupestre* (Davidov) I.Ferg.

Acc: 2006-0550, lpen: GR-0-GB-2006-0550, CollNo: AS 55681, GRC: Evrou, Soufliou, Hill 552 NW of the village of Lefkimi, by the road 0-1.5 km before the summit, 450-500 m, 41°06' N | 26°06' E. 2005-06-16. Prov: Garden - wild origin.

Staphyleaceae

244 *Staphylea pinnata* L.

Acc: 1988-0131, YUG: Bosnien, Kanjon Miljacko, 750 m. Prov: Garden - wild origin.

Tropaeolaceae

245 *Tropaeolum speciosum* Poepp. & Endl.

Acc: 1900-0591. Prov: Garden.

Violaceae

246 *Viola alba* Besser

Acc: 1994-2308, lpen: XX-0-GB-1994-2308. Prov: Garden.

Collectors' initials

AG&WL	A. Gröger & W. Lobin	J.NIL	J. Nilson
AS	A. Strid	JP	J. Persson
B&M	C.D. Brickell & B.F. Mathew	KGB	Kunming-Gothenburg Botanical Expedition to NW Yunnan 1993
BM	B.F. Mathew	KPPZ	M. Kammerlander, E. Pasche, J. Persson & H. Zetterlund
BARAKA	Nordic Georgia Expedition 2007	KT	K. Tan
CLD	Chungtien-Lijiang-Dali 1990	KT & GV	K. Tan & G. Vold
EAC	Expedition Atlas Ceder 1990	L&P	Hans Leep & Erich Pasche
EF	Evamaria Ferm	NCE	North Caucasus Expedition 2011
EGO.IQ	Swedish Iraq Expedition 2007	NNS	R. Ratko
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GBK	G. Bakshi Khaniki	P.&Z.	J. Persson & H. Zetterlund
GH	G.H. Harper	PA	Papanicolaou
GLUE	Gothenburg-Longwood US Expedition 2018 (J. Nilson & P. Zale)	SEP	Swedish Expedition to Pakistan 1983
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HKEP	H. Kerndorff & E. Pasche	SLIZE	Swedish-Latvian-Iranian Zagros Expedition 1998 (M. Lidén, M. Popp & A. Seisums)
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J&JA	J. & J. Archibald		
JAN	J. Andrews		
JHF	J. Fox		

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