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REDAKTOR: JIŘÍ ČEJKA

JINDŘICH CHRTEK and BLANKA SKOČDOPOLOVÁ

National Museum (Natural History), Prague

WALDSTEIN'S COLLECTION IN HERBARIUM OF THE NATIONAL MUSEUM IN PRAGUE

Many specimens of type material, which are of great importance for studies of plant taxonomy, are preserved in the herbarium of the Department of Botany in the National Museum in Prague.

One of the significant collections is the Waldstein's herbarium that was the basis for the famous work of Waldstein and Kitaibel known as the *Descriptiones et icones plantarum rariorum Hungariae* (1799—1812), further only *Icones*. The content and history of this Prague collection was discussed in a manuscript by the late I. Klášterský which was prepared for printing but has never been published. This manuscript, which I. Klášterský committed to our care near the end of his life, will be simultaneously published in journal *Preslia*.

The preservation of Waldstein's material in the herbarium of the Department of Botany of the National Museum in Prague (PR) is a fact not very well-known to the botanists. In botanical circles it has been assumed that they are deposited in the herbarium of the National Museum in Budapest (BP), where a list of all materials was made by JÁVORKA (1926—1945, 1957). No such list has been made as yet for specimens in National Museum in Prague.

The Waldstein collection includes the material which as a whole was used in the elaboration of the *Icones*. After Waldstein's death, his sincere friend, K. Sternberg, with whom he had often inspected the above-mentioned herbarium material, pointed out its importance in the elaboration of the *Icones*. The immediate relation of Waldstein's material to the *Icones* is proven by numerous and detailed labels with descriptions, species names and table numbers, which agree with the descriptions and table numbers in the book. These labels really represent a kind of rough

copy of the original manuscript. In most other sheets the labels with name of species (in most cases the abbreviation N. Sp. is added) and with the locality are present; the locality is usually mentioned in the Icones sometimes in a generalized form. Sternberg also provided the majority of the herbarium sheets annotated with note: "Aus Graf Waldsteins Herbarium".

Waldstein's immediate influence in compiling the scientific text is shown by data in his correspondence to Kitaibel that is preserved in the National Museum in Budapest, and which we had the opportunity to examine. It is evident from this correspondence that Waldstein designated frequently the species content and the sequence of species in individual copies, suggested the names of individual taxa, and asked for remarks and further suggestions from Kitaibel, which he either accepted or refused. From the letters and from the studies of the herbarium materials it appears that Waldstein was not only a generous patron of science, who sponsored financially the edition of the book, but also a qualified botanist, organizer and active participant in the writing of the text.

Furthermore, there must not be omitted his contact with painters, which probably was very complicated. Waldstein suggested, arranged, and definitely approved the plates (tables). In his letters much space is also devoted to the financial questions connected with the edition and drawing of illustrations.

If Waldstein's and Kitaibel's herbaria are compared, some differences are to be found. Kitaibel's herbarium contains — in comparison with Waldstein's herbarium — his whole life's collections, only a part of which is related immediately to the Icones.

Only four species pictured in the Icones are missing in both herbaria. They are *Allium fuscum*, *Digitalis fuscescens*, *Rosa reversa* and *Sedum spathulatum*.

Of the total amount of species published in the Icones it has been found in the herbarium (PR) altogether 136 items. The plants are in a good condition, some of them are even of excellent quality regarding leaf and flower coloration, but some of them are only fragmentary. A special remark we made in the text only if the plant is extraordinarily well or very poorly prepared and preserved. It is probable that the incomplete plants were not well collected, only the upper parts of stems were taken, or the plants were collected in an unfavourable period. Some sheets bear individuals probably grown from seeds in gardens, since such plants are more or less different from those collected in the nature, and their identification is often very difficult or even impossible. Less frequently plants from remote parts of the distribution area of the species (e. g. from Siberia) are admixed.

When comparing the plants on the sheets with the respective illustrations we found that they did not always correspond. The illustrations are in all cases convenienalized (different numbers of leaves, stems, flowers, etc.). The morphological features on the plates characterizing the individual species conform, in most cases to the specimens (differences between the plants and illustrations are mainly in the indumentum).

Where more serious discrepancies have been found, we are recording them in the text dealing with pertinent species. Analogously, as in Waldstein's herbarium, Kitaibel's herbarium contains no plants which would correspond exactly to the plants pictured in the Icones.

In our descriptions of individual species the following process is observed. The order of species is principally according to the numbering of tables in the work (1—280). An alphabetical index has been added for better orientation.

In the Waldstein's and Kitaibel's work as a whole, these groups of species we can distinguish, viz.:

1) Species described by Waldstein and Kitaibel and published having priority from Icones and occurring in our collections (e. g. *Achillea setacea*, *Plantago arenaria*).

2) Species described by Waldstein and Kitaibel in the Icones, and occurring in our collections, but published earlier with priority in other works, first of all in *Species plantarum* by Willdenow (1797—1806), to whom Waldstein used to send his duplicate materials (e. g. *Saxifraga hieracifolia*, *Symphytum cordatum*).

3) Species described by other authors and published only as remarkable or rare in the Icones (e. g. *Nymphaea lotus* L.). In such cases we only mention the species name.

4) Species described by Waldstein and Kitaibel in the Icones, but not found in Waldstein's collection. In such cases we have added the following remarks to the text: The type is not deposited in PR.

In the evaluation of individual items we consider the following points:

a) Name of species, part, page, table, and year of publication of the Icones [year of issue according Jávorka 1957].

b) Registration and inventory numbers; if there exist more sheets with same species, they are designated a, b, c, . . . etc.

c) Very brief description of plants on the sheets and description or transliteration of labels. The quotations are written exactly, even with occasional gramatical and orthographic errors.

d) Brief description of accessible morphological features including all plants of the same species. Only in cases where the specimens are heterogenous, we describe each plant separately.

e) Identification of materials based upon recent taxonomical knowledge.

For simplification we have divided the labels into several groups:

1) Large labels written by Waldstein, including the detailed description of the plant, its name and table number in the Icones. The description in the label is identical with the description in the Icones. In our text they are specified as follow: Large Waldstein label with full description.

2) Smaller labels written by Waldstein with a slightly different and reduced description in comparison with the description given in the book. This type of label we have specified as follow: Waldstein label with limited description.

3) Small labels written by Waldstein (various shapes) with the plant name, the abbreviation N. Sp. mostly, and as a rule with locality. This type of label is specified: Small Waldstein label.

4) Sternberg's label, hand-written, on a form with preprinted headings (Nro. Gattung, Nro. Art, Namen der Pflanze, Beschreibung — siehe, Wohnort, Blüthe, Saamenreife Vermehrung, Gebrauch, Anmerkungen). In most cases the first five columns and the "Anmerkungen" (remarks) are filled in. In column "remarks" there is always written: "Aus Graf Waldsteins Herbarium"; sometimes are other remarks. The size of these labels is very variable. The original forms were of the size of herbarium envelopes in which the plants were enclosed. Later on, they were clipped and adapted. In these labels a synonym written by C. B. Presl's hand is very often added to the plant name; less frequently the whole label is written by C. B. Presl. This type of labels is specified: Sternberg standard label with locality.

5) Small labels written in pencil (probably Kitaibel's handwriting) are of two types: white or blue, and cut from herbarium paper, bear the plant name, and marked N. Sp. or mihi.

6) Labels of various sizes, with the plant name; sometimes with brief description and locality, but written by an author unknown to us.

It is interesting that in the archives of the Department of Botany the illustrations are preserved which were probably prepared for reproduction in the Icones (supposedly tables 280—300) but were not printed.

In conclusion, we assume that in the Prague herbarium the type materials of lectotype character (unless other conclusions were made before in previous publications) are present. If the material of any Waldstein's and Kitaibel's taxon is not present in the herbarium PR, then the lectotype can be expected in herbarium BP.

This assumption is founded on the facts that Waldstein was not only a Maecenas, but also a scientist and organizer of the flora, that his herbarium material is related exclusively to the Icones, that he produced detailed labels corresponding to the descriptions in the work, and looked after the creation of the illustrations, etc.

It is our desire to contribute with the present article to the knowledge of the fund of the herbarium of the Department of Botany of the National Museum in Prague and to point out the value of the materials that are preserved there.

LIST OF SPECIES

1. *Lactuca sagittata* Waldst. et Kit., Icon. Pl. Rar. 1:1, tab. 1, 1799. — The type is not deposited in PR.

2. *Achillea lingulata* Waldst. et Kit., Icon Pl. Rar. 1:2, tab. 2, 1799. — PR 26248/725. Plate 1.

One leafy simple, erect stem (31 cm) with 5 capitula; two only with remains of involucre. Small bag with fragments of inflorescences. Large Waldstein label with full description and small label, written by L. Čelakovský: "Herb. Com. a Waldstein".

Stem densely long pubescent, especially under the leaves; cauline leaves sessile, spatulate, 3,0—4,5 × 0,6—0,8 cm, brownish pubescent; involucre 6 mm in diameter, bracts lanceolate to ovate, pubescent, with a dark brown margin, ligules white (3,0—4,5 mm long).

= *Achillea lingulata* WALDST. et KIT.

3. *Tilia alba* Waldst. et Kit., Icon. Pl. Rar. 1:2, tab. 3, 1799. — PR 155822/10053. Two short twigs (6 and 7,5 cm), each with leaves, buds, and flowers, three separate leaves. Large Waldstein label with full description. Plants well preserved.

Young twigs tomentose; leaves suborbicular, cordate (7,0—8,0 × 7,0—7,5 cm), asymmetrical at base, white tomentose with stellate hairs beneath; petiole 3,5—4,0 cm; bracts subsessile, oblong-lanceolate (6,0—7,3 × 1,2—1,4 cm), glabrescens above, and tomentose beneath; flowers in cymes of 6—8, calyx tomentose.

= *Tilia tomentosa* MOENCH

4. **Lepidium crassifolium** Waldst. et Kit., Icon. Pl. Rar. 1:4, tab. 4, 1799. — PR 155800/773.

Three perennial plants (17, 25, and 28 cm) with many more or less ripened fruits; one plant leafless, and others with basal and cauline leaves. Waldstein label with limited description and name "*Lepidium crassifolium* N. Sp.", localities: "Crescit ad Stagna Salsa in Comitatu Albensi versus St. Ivan et versus Jázbereny". Sternberg standard label with localities "Aus salzigen Steggen in Sibirien und Hungarn", and further note by C. B. Presl "Quoque ex herbario Meyeri".

Stems glabrous or glabrescent; basal leaves long petiolate (2—3 cm), lamina elliptical, 1,7—2,7 cm long and ca. 1 cm wide, cauline leaves sessile with auriculate-sagittate base, 3,0—3,5 × 1 cm, entire, glabrous; pedicels 4—6 mm long, patent, short hairy; silicula ovate, 2,5—3,0 × 3,0 mm, glabrous, distinctly reticulate-alveolate when ripe; style short (0,2—0,4 mm).

= *Lepidium cartilagineum* [J. MAYER] THELL. subsp. *crassifolium* [WALDST. et KIT.] THELL.

5. **Scabiosa longifolia** Waldst. et Kit., Icon. Pl. Rar. 1:4, tab. 5, 1799. — The type is not deposited in PR. In herbarium we found only large Waldstein label with full description and original illustration (tab. 5), but darker than in Icones; no plant.

6. **Alyssum murale** Waldst. et Kit., Icon. Pl. Rar. 1:5, tab. 6, 1799. — PR 495746/791 a, b, c.

a) Three stems: one simple, leafy (31 cm) with richly branched inflorescence, flowers and fruits; one stem (30 cm), leafless with many repla; and one, sterile, leafy stem (18 cm). Large Waldstein label with full description. This specimen selected as lectotype.

b) Three stems (20, 27, and 31 cm) with many cauline leaves and rich compound, many-flowered racemes. Also one simple leafless stem (32 cm) with many repla. Small bag with fragments, determined by T. R. Dudley as "Fragmenta of *A. petraeum* Ard. in packet, Dudley, Febr. 1968". Sternberg standard label with locality (Hungarn), and with further note: "Varietas prioris secundum Willdenovium credat, luderis apello!"

c) One sterile, branched, leafy stem (25 cm) and one simple, leafless stem (31 cm) with many repla. Both determined by T. R. Dudley (Febr. 1968) as "*A. murale* W. et K.". Also three leafy stems with laxe inflorescences, many flowers and fruits; determined by Dudley as *A. petraeum* Ard. All plants well preserved. No label.

All plants of *A. murale* [*A. petraeum* is very different species) have cauline leaves lanceolate to oblanceolate, 2,5—3,0 × 0,5—0,7 cm, grey-green above and whitish beneath with hairs; flowers are small, petals ca. 3 mm, entire; silicula 3—4 × 2—3 mm, with stellate hairs and short style (ca. 0,5 mm long).

= *Alyssum murale* WALDST. et KIT.

7. **Symphytum cordatum** Waldst. et Kit., Icon. Pl. Rar. 1:6, tab. 7, 1799. — PR 155772/10382. Plate 2.

One simple stem (25 cm) with five leaves and poorly flowered inflorescence. Large Waldstein label with full description.

Stem sparsely hairy; lower leaf long petiolate (6,5 cm), lamina cordate (9,0 × 9,3 cm), upper leaves shortly petiolate, rounded at the base; inflorescence with 12 flowers, calyx deeply lobed, corolla absent and nutlets undeveloped.

= *Symphytum cordatum* WALDST. et KIT. ex WILLD.

8. **Silene longiflora** Ehrh.

9. **Vinca herbacea** Waldst. et Kit., Icon. Pl. Rar. 1:8, tab. 9, 1799. — PR 155820/934 a, b. Plate 3.

a) Two creeping, simple leafy stems (13 and 34 cm) with flowers. Large Waldstein label with full description. This specimen is selected as lectotype.

b) Four creeping, leafy stems (21, 25, 25, and 26 cm) with flowers. Small bag with fragments. Sternberg standard label with locality (Hungarn). Plants very well preserved.

Cauline leaves elliptical or lanceolate, the lowermost sometimes obovate, 3,5—4,0 ×

0,8—1,2 cm, glabrous with margins minutely ciliate; flowers solitary, axillary, long pedicelate, ca. 3 cm, calyx lobes very narrowly triangular, ca. 4 mm long, corolla tube 10—12 mm long.

= *Vinca herbacea* WALDST. et KIT.

10. *Ranunculus crenatus* Waldst. et Kit., Icon. Pl. Rar. 1:9, tab. 10, 1799. — PR 155780/763. Plate 4.

Three plants (3, 4, and 5 cm), two of them with flowers, and one separate basal leaf. Large Waldstein label with full description, and small Waldstein label with note: "Ranunculus crenatus Waldstein et Kitaibel auf den Petrosen Alpen am Schnee. — R. foliis cordato subrotundis, integris, crenatis, caule unifloro, calyce erecto, petaliis apice crenata".

Plants glabrous, basal leaves petiolate (1,5—2,0 cm long), lamina suborbiculare, weakly cordate, crenate, obscurely veined, cauline leaves 1—2, lanceolate to bract-like; flowers solitary, 16—23 mm in diameter, petals broadly obovate (8—11 mm long, and up to 13 mm wide).

= *Ranunculus crenatus* WALDST. et KIT.

11. *Carduus radiatus* Waldst. et Kit., Icon. Pl. Rar. 1:9, tab. 11, 1800. — PR 155745/719 a, b, c, d.

a) Two leafy, erect stems (34, and 38 cm) with a few capitula. Small bag with fragments. No label. This specimen is selected as lectotype.

b) Three upper parts of stems. Two of them branched with leaves, and capitula. Sternberg standard label with locality (Hungarn).

c) One lower part of stem (23 cm), and one young plant (36 cm), both leafy, without inflorescences. Large Waldstein label with full description.

d) One young, leafy plant (38 cm), two separate leaves. No label.

All plants well preserved.

Stems scabrid; leaves deeply pinnatifid, cauline leaves up to 17 cm long and 3,5—5,0 cm wide, lobes entire or irregularly dentate, appressed hairy; capitula campanulate, outer involucre bracts usually floccose, abruptly contracted into short rigid spines, inner bracts weakly floccose-glabrescent, hooked, spiny.

= *Serratula radiata* (WALDST. et KIT.) BIEB.

12. *Scabiosa banatica* Waldst. et Kit., Icon. Pl. Rar. 1:10, tab. 12, 1800. — PR 155777/761.

Two upper parts of stems, leafy, branched (ca. 40 cm), together with five inflorescences in different stages of development. One part of leaf. Small label, with name "*Scabiosa banatica* N. Sp.", probably written by Kitaibel. Some morphological features do not correspond with illustration.

Both plants have stems and leaves dispersely hispid, leaves pinnatisect. First plant with two capitula, one of them well developed, 12,5 mm in diameter, calyx setae absent. = *Scabiosa triandra* L. — Second plant with 3 young capitula, calyx setae developed shorter than corona. Identification is very difficult; probably it is *S. triandra* too, with longer calyx setae or it belongs to *S. columbaria* L. group.

13. *Scabiosa corniculata* Waldst. et Kit., Icon. Pl. Rar. 1:11, tab. 13, 1800. — PR 155776/760.

One middle part of stem, without leaves and flowers; one complete, separate leaf, and one divided into two parts. Small bag with fragments. Large Waldstein label with full description. Plant very badly preserved.

Leaf pinnatisect, 23 × 6 cm, with 4 pairs of entire lobes, oblong lateral, dispersely appressed hairy. The identification of this specimen is very difficult; it is probably *Cephalaria uralensis* (MURRAY) ROEM. et SCHULT.

14. *Phyteuma canescens* Waldst. et Kit., Icon. Pl. Rar. 1:12, tab. 14, 1800. — PR 155788/10062 a, b, c.

a) Two erect, simple, densely leafy stem (32 and 38 cm) with inflorescences. Large Waldstein label with full description. This specimen is selected as lectotype.

b) Three parts of plants: one upper part of densely leafy stem (23 cm) with inflorescence and lower and middle parts of stems. Small bag with fragments. Sternberg standard label with locality (Hungarn) and note: "Aus Graf Waldsteins Herbario 1802", and additional note, written by C. B. Presl: "Cultum in horto botanico Březinensi 1827".

c) Two upper parts of stems (32 and 34 cm), densely leafy with inflorescences. No label.

Stems pubescent or glabrous; leaves shortly petiolate or sessile, 3.0—4.5 × 1.1—1.5 cm, glabrous or pubescent (especially in lower parts of leaves), crenato-serrate; inflorescences 5—30 cm long, sometimes branched; calyx shortly pubescent, ca. 5 mm long, with teeth 2—3 mm long.

= *Asyneuma canescens* (WALDST. et KIT.) GRISEB. et SCHENK

15. *Nymphaea lotus* L.

16. *Cineraria sibirica* L.

17. *Allium atropurpureum* Waldst. et Kit., Icon. Pl. Rar. 1:16, tab. 17, 1800. — PR 495736/740.

One plant (ca. 68 cm) without bulb. Large Waldstein label with full description, and small Waldstein label with note: "Allium atropurpureum N. Sp. in Syrmischen Grünsärten".

Stem thick (below up to 7 mm in diameter), with remains of leaves (up to 1 cm wide); inflorescence (6 cm in diameter), many flowered, pedicels 1.6—2.0 cm long (some flowers very short pedicelate or sessile), perigon ca. 6 mm long, dark, perigon segments oblong-linear; fruits not developed.

= *Allium atropurpureum* WALDST. et KIT.

18. *Saxifraga hieracifolia* Waldst. et Kit., Icon. Pl. Rar. 1:17, tab. 18, 1800. — PR 155834/790 a, b.

a) One plant (32 cm), with roots, leaves and inflorescence. Sternberg standard label.

b) One plant (32 cm) with leaves and flowers in panicle. Large Waldstein label with full description. Plants well preserved.

Leaves up to 9 cm long and up to 3.2 cm wide, obovate oblong, irregularly dentate, more or less pubescent, margins ciliate; scape 5 mm in diameter, densely glandular pubescent, bearing congested panicle of numerous sessile flowers; bracts lanceolate, leaflike sepals deflexed in fruit.

= *Saxifraga hieracifolia* WALDST. et KIT. ex WILLD.

19. *Crepis rigida* Waldst. et Kit., Icon. Pl. Rar. 1:18, tab. 19, 1800. — PR 502328/729.

One leafy, simple stem (49 cm) in upper part destroyed. Small bag with fragments of capitula. Sternberg standard label with localities (Hungary, Taurien) and small Waldstein label with following text: "Crepis rigida Waldstein; Bey Ofen in Ungarn". Plant not well preserved.

Basal leaf (up to 15 cm long and 5.5 cm wide) narrowed into a long winged petiole, with glandular and eglandular hairs, middle cauline leaves sessile or sessile, with rounded auricles; capitula 8—11 × 7—10 mm, outer involucre bracts linear lanceolate, up to 1/2 as long as inner, tomentose with light margins.

= *Crepis pannonica* (JACQ.) C. KOCH

20. *Peucedanum arenarium* Waldst. et Kit., Icon. Pl. Rar. 1:18, tab. 20, 1800. — PR 155787/10066 a, b.

a) One plant (68 cm), leafless, in upper part branched, with three umbels with flowers and young fruits. Large Waldstein label with full description. This plant selected as lectotype.

b) Two leaves (10 and 24 cm long) and one separate umbel. Small bag with fragments. Sternberg standard label with locality (Hungary). In BP-herbarium there is only a label with short description, without plant.

Stems terete above; leaves 3—4 pinnate, divided into linear, mucronate, entire lobes, upper cauline leaves reduced to inflated petioles; rays of umbels unequal, 8—9 (on sheet a) and 18 (on sheet b); bracts 0—1, lanceolate, bracteoles several, linear-lanceolate; fruits elliptical with conspicuous dorsal ridges.

= *Peucedanum arenarium* WALDST. et KIT.

21. *Glycyrrhiza glandulifera* Waldst. et Kit., Icon. Pl. Rar. 1:20, tab. 21, 1800. — The type is not deposited in PR.

22. *Cerastium anomalum* Waldst. et Kit., Icon. Pl. Rar. 1:21, tab. 22, 1800. — PR 155747/727.

Four upper parts of stems (12—14 cm), with 1—2 pairs of leaves and flowers. Large Waldstein label with full description.

Stems minutely glandular viscid; leaves 14—17 × 1.2 mm; flowers white, calyx lobes with scarious margins, corolla 5—6 mm (a little longer than calyx), styles three.

= *Cerastium dubium* (BAST.) O. SCHWARZ

23. *Smyrniium perfoliatum* L.

24. *Senecio vernalis* Waldst. et Kit., Icon. Pl. Rar. 1: 23, tab. 24, 1800 — PR 26250/796.
One shortly branched, densely leafy plant (18 cm) with many roots and five leafy, simple stems (14—27 cm); all plants with inflorescences. Large Waldstein label with full description. Plants well preserved.

Stems and leaves more or less glabrescent; young leaves and stems arachnoid lanate, basal leaves pinnatifid, 4,5—5,0 cm long, with wide dentate rhachis, upper cauline leaves with dentate auricles; capitula in terminal inflorescences; involucre bracts ca. 7 mm long, glabrous, with small supplementary bracts; ligules yellow, ca. 10 mm long; achenes 2 mm long, subcylindrical, appressed hairy (hairs whitish).

= *Senecio vernalis* WALDST. et KIT.

25. *Trifolium striatum* L.

26. *Trifolium macrorrhizum* Waldst. et Kit., Icon. Pl. Rar. 1: 24, tab. 26, 1800. — PR 495669/800.

Two parts of stems (21 and 26 cm) with young fruits and one middle part of stem (30 cm) without fruits. Small bag with fragments of inflorescences and leaves. Large Waldstein label with full description, and note by L. Čelakovský: "scripsit comes a Waldstein". Smaller label written by Čelakovský: "Trifolium macrorrhizum W. Kit., specim. originarium Waldsteinii, in locis subsalsis subhumidis Hungariae plandoris, leg. com. Waldstein". Plants not well preserved.

Leaflets serrate; stipules subulato-setaceous, sparsely dentate; flowers small (3—4 mm); legume not ripe, without distinct sculpture, glabrous.

JÁVORKA (1957) identified plants in BP-herbarium from Icones as *Melilotus dentatus* Thuill. var. *macrorrhizus* (Waldst. et Kit.) Pers. Plants in PR-collection have legumes glabrous, as *M. dentata*. Glabrous fruits are also in the illustration (tab. 26).

= *Melilotus dentata* (WALDST. et KIT.) PERS.

27. *Trifolium angulatum* Waldst. et Kit., Icon. Pl. Rar. 1: 26, tab. 27, 1800. — PR 495671/799.

One annual, branched, leafy plant (15 cm) with root and flowers, and one solitary upper part of stem. Large Waldstein label with full description, and Sternberg standard label with locality (auf salzigen Stellen in Ungarn). Plants well preserved.

Leaves petiolate (up to 6 cm); leaflets obovate, fine dentate, 10—15 × 8—10 mm, very shortly petiolulate; stipules ovate, long acuminate; peduncles shorter than leaves (2,0—3,3 cm), heads 10—15 mm in diameter; flowers shortly pedicelate, deflexed after anthesis. calyx up to 4 mm, with long linear-filiform teeth, longer than the tube; corolla ca. 6 mm long.

= *Trifolium angulatum* EHRH.

28. *Brassica elongata* Ehrh.

29. *Silene dichotoma* Ehrh.

30. *Aster canus* Waldst. et Kit., Icon. Pl. Rar. 1: 28, tab. 30, 1800. — PR 495743/723 a, b.

a) Two, leafy, simple stems (21 and 30 cm) with inflorescences. Bag with fragments. Large Waldstein label with full description. This specimen selected as lectotype.

b) Two stems (33 and 34 cm) with leaves and inflorescences are identical with plants on former sheet (a). Further, there is one plant (25 cm), differing from the other with darker and narrower leaves and larger capitula, uppermost leaves distinctly one-veined. It belongs probably to the group of *A. sedifolius* L. This sheet is without label.

Stems pubescent with dispersely glandular hairs; cauline leaves grey tomentose on both sides, sessile, lanceolate to elliptic, 2,5—3,0 × 0,6—0,7 cm, distinctly three-veined, scabrid at margin; inflorescence with many capitula, involucre bracts in three rows, pubescent; pappus hairs unequal, yellowish; achenes densely hairy.

= *Aster canus* WALDST. et KIT.

31. *Kitaibela vitifolia* Willd.

32. *Vaillantia glabra* L.

33. *Vaillantia pedemontana* Bell.

34. *Achillea ochroleuca* Waldst. et Kit., Icon. Pl. Rar. 1: 33, tab. 34, 1800. — PR 26249/530 a, b. Plate 6.

a) Three leafy plants (20, 22 and 24 cm) with inflorescences, and one plant, including roots, with two flowered stems (12 and 14 cm). Large Waldstein label with full description; to the original name *A. ochroleuca* there is added "*A. pectinata*", too. Small label, written with a handwriting unknown to us: "*Achillea pectinata* — In arenosis, Waldsteins Herbar". This specimen selected as lectotype.

b) Six leafy simple stems with inflorescences (22–25 cm), No label.

Stems tomentose; leaves up to 3 cm, lanceolate in outline, pectinate-pinnatisect, more or less pubescent with glandular punctate hairs beneath; leaves of sterile shoots divided only in distal half, the lower part linear, entire; capitula 2,5–3,0 mm long, peduncles up to 5 mm; involucre bracts hairy, ca. 1,5 mm long; ligules 1,0–1,5 mm, whitish.

= *Achillea ochroleuca* EHRH.

35. *Beta trigyna* Waldst. et Kit., Icon. Pl. Rar. 1 : 34, tab. 35, 1800 — PR 495741/712 a, b.

a) One upper part of stem (39 cm) with leaves and inflorescences, and one middle part (24 cm) with four leaves. Large Waldstein label with full description and small Waldstein label: "*Beta trigynia* N. Sp. Wald. et Kitaib., in Syrmien... und am Ufer der Donau". This specimen selected as lectotype.

b) Two branches (28 and 32 cm) with leaves and inflorescences. Bag with fruits. No label.

Stems glabrous, in upper parts pubescent; cauline leaves glabrous, pilose only on the veins, petiolate, lamina more or less triangular, 8–12 × 5–7 cm, entire. Plants not so hairy as in picture (tab. 35.).

= *Beta trigyna* WALDST. et KIT.

36. *Trifolium pallidum* Waldst. et Kit., Icon. Pl. Rar. 1 : 35, tab. 36, 1800. — PR 495670/793 a, b.

a) Five parts of stems (13–27 cm) with leaves and flowers. Large Waldstein label with full description and Sternberg standard label with locality (Hungarn). This specimen is selected as lectotype.

b) Six parts of branched stems (13–37 cm) with leaves and flowers. Small bag with fragments. No label.

Stems dispersely hairy; leaflets obovate-cuneate, 14–20 × 7–12 mm; stipules abruptly contracted into a filiform arista; heads ca. 16 mm wide, globose to ovoid, sessile; calyx with evident veins, teeth setaceous, longer than tube; corolla 9–12 mm long, longer than calyx.

= *Trifolium pallidum* WALDST. et KIT.

37. *Trifolium strictum* Jusl.

38. *Dianthus collinus* Waldst. et Kit., Icon. Pl. Rar. 1 : 36, tab. 38, 1800. — PR 155761/755.

Four short upper parts of stems (2–17 cm) with leaves and flowers, and four middle parts of stems (5–12 cm) with leaves only. Large Waldstein label with full description.

Upper parts of stems sparsely to densely pubescent; leaves glabrescent to densely pubescent, linear-lanceolate, 35–47 × 3–4 mm with fine veins, midrib distinctly prominent; flowers in 2–4 heads with green bracts shorter than half the calyx; calyx about 12 mm long, distinctly ribed, calyx teeth ciliate; petal limb 5–8 × 4–7 mm.

= *Dianthus collinus* WALDST. et KIT.

39. *Plantago tenuiflora* Waldst. et Kit., Icon. Pl. Rar. 1 : 37, tab. 39, 1800. — PR 254051/10214.

One annual plant (13 cm) with basal rosette of leaves and five inflorescences. Sternberg standard label with locality (Hungarn; auf feuchten salzigen Stellen).

Leaves linear, up to 9 cm long and 1 mm wide, glabrous or sparsely hairy; scapes usually longer than leaves, hairy, terete; spices about half of scapes, lax, interrupted at base; bracts 2 mm long, ovate-lanceolate, ciliate; sepals 1,5–2,0 mm long, subequal, glabrous with scarious margin; capsule 3 mm long.

= *Plantago tenuiflora* WALDST. et KIT.

There is also, on same sheet, one perennial plant (13 cm) with stout stock, which probably belongs to *Plantago maritima* group. The scape is twice as long as basal leaves, and inflorescence is destroyed.

40. *Astragalus albidus* Waldst. et Kit., Icon. Pl. Rar. 1 : 39, tab. 40, 1800. — PR 495738/705 a, b.

a) Three plants (8, 9 and 13 cm) with leaves and flowers in full flower. Large Waldstein label with full description and one smaller label with description of *Astragalus venustus* and note: "an vesicarius? Allioni fl. pedem." written by Waldstein as well. Both these descriptions are very similar, they do not differ essentially. This specimen selected as lectotype.

Stems densely hairy with appressed hairs; leaves 2,5—4,0 cm long; leaflets 4—5 pairs, oblong—elliptical, 6,5—8,0 × 2,0—3,0 mm, densely hairy; peduncles 2 times as long as leaves (up to 8,5 cm), inflorescences dense, rounded; calyx 8—10 mm long, with patent or ascending white hairs, standard 1,5—1,7 cm long, glabrous.

= *Astragalus albidus* WALDST. et KIT.

b) Two plants with inflorescences and one unidentified shoot. Small bag with fragments of leaves. Sternberg standard label with locality (Hungarn). First plant with leafless stem (6,5 cm), and 21 cm long peduncle with inflorescence of 8 flowers. Plant is identical with *A. albidus*. Second plant is part of a tuft, with two long leafy stems (ca. 35 cm), leaves with 7—9 pairs of leaflets, leaflets in the lower part 15—16 × 3 mm. Four inflorescences, one in full flower; inflorescence 15 cm long, pedicels 6,5 cm; calyx ca. 1 cm long, standard 1,5 cm long. This plant belongs to *Astragalus varius* GMEL.

41. *Gypsophila arenaria* Waldst. et Kit., Icon. Pl. Rar. 1:40, tab. 41, 1800. — PR 155809/778 a, b, c.

a) Five flowering and fruiting branches of stems (29—34 cm). No label.

b) Three flowering branches (31—35 cm) and one middle part of stem (21 cm) with broken branches and without inflorescences. Small Waldstein label: "Gypsophila arenaria N. Sp. Wald., foliis linearibus subcarnosis glabris planis, caule corymboso, petalis integris. Habitat in arenosis Hungariae, a G. struthium differt: folia angustiora, linearia ... et petala integra"; it is also added: "Auth. a Com. Waldstein" in unknown handwriting.

c) Five branches (30—40 cm) with inflorescences. Large Waldstein label with full description. This specimen is selected as lectotype.

Stems rounded, glabrous, internodia longer than leaves, leaves in middle part of stem linear-lanceolate, 22—30 × 1—2 mm, one-veined, glabrescent; branches of inflorescences glandular-pubescent; bracts lanceolate-ovate, subhyaline, with dark green midrib, acute, glabrous; inflorescence many-flowered, rather dense, pedicels glabrous to glandular-pubescent, 2—3 mm long; calyx ca. 2 mm long, glabrous with dark green midrib, corolla 5 mm long; capsula about 4 mm, globose, seeds brownish, 1,2 × 1 mm, with long conical tubercles, at apex usually slightly recurved.

= *Gypsophila arenaria* WALDST. et KIT.

42. *Trifolium dentatum* Waldst. et Kit., Icon. Pl. Rar. 1:41, tab. 42, 1800. — PR 495724/10078 a, b.

a) Two upper parts of leafy stems (27 and 38 cm) with flowers and one middle part of leafy stem (29 cm) with many fruits. Small bag with fragments of leaves. The second part of Sternberg standard label with locality (Banat) and note by L. Čelakovský: "Trifolium dentatum Waldst. Kit. Original exemplar!" This specimen selected as lectotype.

b) One leafy, branched plant (ca. 60 cm), divided into two parts with flowers and fruits. Bag with fragments. The first part of Sternberg standard label.

Leaflets oblong-elliptical to lanceolate-ovate, 2,2—4,6 × 0,7—1,7 cm, serrate; stipules dentate at base; racemes many-flowered, corolla ca. 4 mm; legume not ripe, up to 6 mm long, glabrous.

= *Melilotus dentata* (WALDST. et KIT.) PERS.

43. *Crepis hispida* Waldst. et Kit., Icon. Pl. Rar. 1:42, tab. 43, 1800. — PR 502327/728. One leafy, branched plant (35 cm) with root and inflorescence. Small bag with fragments and small Waldstein label: "Crepis hispida Waldstein, in Hungarn, auf Acker...". Well preserved plant does not quite correspond with illustration.

Basal leaves hispida with yellowish hairs, denticulate to pinnatisect, narrowed below; cauline leaves auriculate-amplexicaule, lanceolate; involucre bracts hispida with yellowish hairs thickened at their base, outer bracts up to 1/2 as long as inner; ligules yellowish, ca. 7 mm long.

= probably *Crepis setosa* HALL. fil.

44. *Saxifraga cuneifolia* L.

45. *Ranunculus polyphyllus* Waldst. et Kit., Icon. Pl. Rar. 1:44, tab. 45, 1800. — PR 155779/762.

Two plants [3—4 cm] with leaves, flowers and roots. Large Waldstein label with full description.

Stems branched, basal aerial leaves long petiolate, lamina 3—4 × 1—1,5 mm, glabrescent, cauline leaves small, lanceolate; flowers 3—4 mm in diameter, petals up to 3 mm long and 1 mm wide; achenes numerous, minutely papillose.

= *Ranunculus polyphyllus* WALDST. et KIT. ex WILLD.

46. *Astragalus eriocephalus* Waldst. et Kit., Icon. Pl. Rar. 1:45, tab. 46, 1800. — PR 495737/704.

One stem (17 cm) with three leaves and four inflorescences (one of them very young). Large Waldstein label with full description.

Stem densely long hairy, hairs patent, pale brown; leaves 23—25 cm long, with up to 15 pairs of leaflets, leaflets ovate, elliptical-lanceolate, 18—23 × 6—10 mm, on both sides hairy; peduncles 12—16 cm, racemes short, dense; calyx 11—12 mm long, densely hairy, corolla yellowish, standard 17—20 mm long, hairy.

= *Astragalus dasyanthus* PALLAS

47. *Alcea pallida* Waldst. et Kit., Icon. Pl. Rar. 1:46, tab. 47, 1800. — PR 155740/748 a, b and 539544/749.

155740/748 a) One simple stem (ca. 58 cm) with flowers. Sternberg standard label with locality (Hungarn) and colour: "blas rosen Farb".

155740/748 b) One simple stem with a few flowers and one leaf. Two bags with fragments of leaves and flowers. Small Waldstein label: "Alcea pallida Waldst.; Hungarn, in flachen Land bis in der Gebirge...".

539544/749 One upper leafy part of stem (30 cm) with flowers, top of stem lacking, one leaf mounted separately. Large Waldstein label with full description. This plant selected as lectotype.

All material is homogenous, well preserved, especially the colour of flowers and leaves.

Stems pubescent; leaves cordate-orbicular to rhombic-dentate, 5,5—9,0 × 5,0—6,5 cm, crenate, divided in 3- or 5 obtuse lobes, greyish tomentose, especially beneath; epicalyx segments triangular, sepals more or less equaling, petals pale pink, 3,5—4,0 cm long, deeply emarginate.

= *Alcea pallida* (WILLD.) WALDST. et KIT.

48. *Lactuca stricta* Waldst. et Kit., Icon. Pl. Rar. 1:47, tab. 48, 1800. — The type is not deposited in PR.

49. *Hyoseris foetida* L.

50. *Trifolium diffusum* Ehrh.

51. *Plantago arenaria* Waldst. et Kit., Icon. Pl. Rar. 1:51, tab. 51, 1801. — PR 155784/766. Plate 7.

One annual, simple, leafy plant (12 cm) with root. Large Waldstein label with full description.

Stem erect, glandular-pubescent; leaves linear 40—60 × 1—1,5 mm, glandular-pubescent; peduncles 1,5—2,6 cm long, erect, spikes semiglobose, about 6 mm in diameter, lower bracts 5—6 mm with scarios margins; corolla lobes glabrous, ca. 2 mm long.

= *Plantago arenaria* WALDST. et KIT.

52. *Carduus nitidus* Waldst. et Kit., Icon. Pl. Rar. 1:52, tab. 52, 1801. — PR 502338/717 a, b.

a) One upper part of stem (45 cm) with four leaves and one capitula, and one leafy stem (32 cm) with very young inflorescence. Large Waldstein label with full description and small Waldstein label: "Carduus nitidus, bei Pallota". This specimen is selected as lectotype.

b) One plant (47 cm) with basal leaves, remains of roots and one empty capitulum, and two uppermost parts of stem with inflorescences; two separate leaves. Small bag with fragments. No label.

Stems and leaves dispersely hairy, cauline leaves deeply pinnatifid, with linear mucronate lobes, upper leaves simple, linear — in uppermost parts of stem absent; involucre about 2 cm in diameter, outer involucre bracts mucronate, inner chartaceous.

= *Serratula lycopifolia* (VILL.) A. KERNER

53. *Scabiosa canescens* Waldst. et Kit., Icon. Pl. Rar. 1:53, tab. 53, 1801. — PR 155775/759 a, b.

a) Two leafy plants (18 and 29 cm), each with three inflorescences; one in full flower. Large Waldstein label with full description. This specimen is selected as lectotype.

b) Two leafy plants (34 and 36 cm), each with three inflorescences, one in full flower; two separate basal leaves. No label.

Stems shortly densely pubescent; basal leaves oblanceolate, ca. 6×1 cm, glabrescent, entire; cauline leaves pinnatifid or pinnatisect, with linear segments, dispersely pubescent above; capitula 15–20 mm in diameter, involucrel bracts more or less 5 mm long, ovate-lanceolate, densely pubescent; corolla of marginal florets ca. 11 mm long, densely pubescent.

= *Scabiosa canescens* WALDST. et KIT.

54. *Euphorbia lucida* Waldst. et Kit., Icon. Pl. Rar. 1: 54, tab. 54, 1801. — PR 155814/781.

One upper part of stem (30 cm), densely leafy, shortly axillary branched, with inflorescences; one separate top of axillary leafy branch. Large Waldstein label with full description and with additional note by Čelakovský: "Waldsteins Original exemplar!"

Stem robust, glabrous; leaves sessile, lanceolate to ovate-oblanceolate, $8,0\text{--}9,0 \times 1,5\text{--}1,8$ cm, obtuse at apex, entire; rays 8, ray-leaves oblong-ovate, up to $1,8 \times 1,1$ mm, raylet-leaves ca. 1 cm long, suborbicular-dentate.

= *Euphorbia lucida* WALDST. et KIT.

55. *Euphorbia salicifolia* HOST

56. *Cucubalus multiflorus* Ehrh.

57. *Iris arenaria* Waldst. et Kit., Icon. Pl. Rar. 1: 57, tab. 57, 1801. — PR 155802/10059 a, b.

a) Two small tufts (11 and 18 cm) with rhizoms and flowers; three stems (9–12 cm) with flowers and leaves, and two sterile shoots (9 and 14 cm). Small bag with fragments. Large Waldstein label with full description. This specimen is selected as lectotype.

b) Three flowering stems (11–12 cm) and four separate leaves. Sternberg standard label with locality (Hungarn) and note: "Aus Graf Waldsteins Herbarium 1802; blüht in meinen Garten 1814".

Stems slender; basal leaves $70\text{--}130 \times 2,5\text{--}5,5$ mm; flowers solitary or 2, pedicels ca. 6 mm long.

= *Iris humilis* GEORGI s. l.

58. *Chrysocoma villosa* L.

59. *Turritis patula* Ehrh.

60. *Peucedanum sibiricum* Waldst. et Kit., Icon. Pl. Rar. 1: 60, tab. 60, 1801. — PR 155786/10067 a, b.

a) One upper part of stem (27 cm) with umbels, two broken umbels and two separate parts of leaves. Small Waldstein label: "Peucedanum sibiricum Wald. Ungarn, bey Pest".

b) One leafy plant (69 cm) with one umbel, the other are broken. Small bag with fragments. Large Waldstein label with full description. Plant selected as lectotype.

Stems robust, terete, glabrous, smooth; leaves finally divided with conspicuous sheathing bases, lobes linear up to 2,5 mm wide, entire, scabrid; umbels with 9–12 rays, partial umbels with 9–13 flowers; bracts and bracteoles 0–1 (–2), elliptical; fruits ca. 7 mm long and 3 mm wide, strongly dorsally compressed, with thin lateral wings closely appressed to one another, slightly carinate.

= *Ferula sadleriana* LEDEB.

61. *Crataegus nigra* Waldst. et Kit., Icon. Pl. Rar. 1: 62, tab. 61, 1801. — PR 502331/743. Plate 8.

One twig (ca. 30 cm) without spines, with short branches, when young densely tomentose. Large Waldstein label with full description. There are some differences between illustration and plant, especially in morphology of leaves (lobes, veins, etc.).

Leaves ovate, $4,5\text{--}5,5 \times 3,5\text{--}5,0$ cm, whitish tomentose beneath and sparsely tomentose above, lateral veins ending in apices of lobes and very rarely in sinuses; lobes up to 9, irregularly serrate, not quite extending $1/2$ way to midrib; stipules wide serrate; petioles up to 2 cm, densely tomentose; corymbs few flowered; petals $5 \times 4,5$ mm, peduncle tomentose, receptaculum densely tomentose, top of ovary glabrous; styles 5.

= *Crataegus nigra* WALDST. et KIT.

62. *Salvia nutans* L.

63. *Camphorosma ovata* Waldst. et Kit., Icon. Pl. Rar. 1: 64, tab. 63, 1801. — PR 155748/742 a, b.

a) One branched leafy plant (25 cm) with flowers. Sternberg standard label with locality (Hungary).

b) Seven leafy plants (2–5 cm) with roots, five of them with flowers, and six parts of stems (3,5–15,5 cm) with leaves and flowers. Large Waldstein label with full description. This specimen selected as lectotype.

Stems glabrescent; leaves linear, glabrescent to pubescent.

= *Camphorosma annua* PALLAS

64. *Campanula lingulata* Waldst. et Kit., Icon. Pl. Rar. 1: 65, tab. 64, 1801. — PR 155749/741 a, b, c.

a) One branched inflorescence (31 cm), with many flowers, separate four leaves. No label.

b) Four parts of stems (17–36 cm) and one stem (35 cm) with terminal inflorescence. Large Waldstein label with full description. Plant with inflorescence selected as lectotype.

c) Two upper parts of stems (31 and 33 cm) with many flowers. Sternberg standard label with locality (Hungary) and note "Aus Graf Waldsteins Herbarium; aus meinen Garten 1814". It is probable that tall conspicuously branched plants on sheets a) and c) originated from cultivation.

Plants hispid; basal leaves oblong spatulate, petiolate, upper cauline leaves sessile; inflorescence terminal capitate (sheet b), flowers sessile; calyx teeth oblong obtuse, appendages ovate, corolla 1,7–2,2 cm.

= *Campanula lingulata* WALDST. et KIT.

65. *Artemisia scoparia* Waldst. et Kit., Icon. Pl. Rar. 1: 66, tab. 65, 1801. — PR 495745/716 a, b.

a) One middle part of stem (31 cm), leafy, branched, with broken top and one separate branch. Small bag with fragments. Large Waldstein label with full description. Plant selected as lectotype.

b) Two upper parts of stems (37 and 39 cm), leafy, branched; all plants with many capitula. Small bag with fragments. No label.

Plants glabrescent, often hairy on the basis of leaves; capitula small, young, involucre bracts glabrous.

= *Artemisia scoparia* WALDST. et KIT.

66. *Achillea crithmifolia* Waldst. et Kit., Icon. Pl. Rar. 1: 68, tab. 66, 1801. — PR 495739/531. Plate 9.

Three upper parts of stems (18, 19 and 24) with rich inflorescences, two of them leafy. Large Waldstein label with full description.

Leaves pinnatisect, more or less pubescent; pedicels tomentose; involucre ca. 4 × 2 mm, bracts glabrescent.

= *Achillea crithmifolia* WALDST. et KIT.

67. *Polygonum arenarium* Waldst. et Kit., Icon. Pl. Rar. 1: 69, tab. 67, 1801. — PR 155783/1329 a, b.

a) Five flowering, branched parts of stem (23–37 cm), with a few leaves, and one small leafy sterile plant (9 cm). Sternberg standard label with locality (Hungary) and small Waldstein label: "Polygonum arenarium Wald. In Sand bey Pesth...". Small label written by Waldstein with name and locality (Hungary) is mounted on small sterile plant.

b) Three stems (23–37 cm) with flowers and leaves and one many branched plant (ca. 40 cm). Small bag with fragments. Large Waldstein label with full description. This specimen selected as lectotype.

Stems ribed, glabrous, branched; leaves linear lanceolate, 17–27 × 2–3 mm, glabrous ochrea whitish; perianth whitish, with patent segments; nuts 2 × 1 mm, dark brown, glabrous.

= *Polygonum arenarium* WALDST. et KIT.

68. *Allium setaceum* Waldst. et Kit., Icon. Pl. Rar. 1: 70, tab. 68, 1801. — PR 155737/726.

The type of this plant is not deposited in PR. Probably by mistake one plant of *Allium ochroleucum* is mounted together with large Waldstein label of *Allium setaceum*.

Plant on sheet has leaves 20–25 cm long and 1–2 mm wide; stem (33 cm) rounded, ribed, with one dense hemispherical umbel, 2,5 cm in diameter; pedicels 0,7–

1,1 cm long, perianth segments 4—5 mm long, yellowish, filaments up to twice long as perigon; some ripe fruits are developed. This specimen seems to be *A. ochroleucum* WALDST. et KIT., as it is also written by I. Klášterský on the small revision label. We were not able to find any specimen of *A. setaceum* from Waldstein's collection in PR-herbarium.

69. *Teucrium laxmanni* L.

70. *Crepis hieracioides* Waldst. et Kit., Icon. Pl. Rar. 1: 71, tab. 70, 1801. — The type is not deposited in PR.

71. *Thymus montanus* Waldst. et Kit., Icon. Pl. Rar. 1: 72, tab. 71, 1801. — PR 212922/10076 a, b and 495667/950.

212922 a) Four plants (12—16 cm) with leaves and inflorescences. Small Waldstein label: "Thymus a montano diversus floribus capitatis caulibus repentibus; hirsutia major in monte Merzin, Plisziviza et Velebich". Two revision labels by P. Schmidt, XI. 1972: "1 [obere 3 Zweige]: Syntypes, *Thymus montanus* W. K. nom. illeg. non CRANTZ nec WILLD. ! = *Thymus pulegioides* L. subsp. *montanus* RONN. det. P. Schmidt". Besides specimens of *T. pulegioides* there is also one unidentified plant.

212922 b) Three leafy plants (20—24 cm) with inflorescences and one plant (23 cm) only with leaves. Large Waldstein label with full description and revision label by P. Schmidt, XI. 1972: "1 [oberster Zweig links]: Syntypes, *Thymus pulegioides* L. ssp. *montanus* RONN. [*T. montanus* W. K. nom. illeg. non CRANTZ nec WILLD.]". There are also two unidentified plants on sheet.

495667) Three leafy plants (17—33 cm) with inflorescences. Sternberg standard label with illegible locality. Revision label (P. Schmidt XI. 1972): 1. *Thymus pulegioides* L. ssp. *montanus* RONN., 2. *Th. pulegioides* L. × *Th. pannonicus* ALL."

Stems 4 angled, sometimes branched, hairy on angles only; leaves up to 15 mm long and up to 7 mm wide, more or less equal, ovate or oblong lanceolate, ciliate at base, petiolate, marginal veins present, distinct; calyx campanulate, ca. 3 mm long, usually ciliate.

72. *Pimpinella glauca* Waldst. et Kit., Icon. Pl. Rar. 1: 73, tab. 72, 1801. The type is not deposited in PR.

73. *Scrophularia vernalis* L.

74. *Digitalis lanata* Ehrh.

75. *Artemisia monogyna* Waldst. et Kit., Icon. Pl. Rar. 1: 77, tab. 75, 1801. — PR 495744/711 a, b, c.

a) Three branched leafy plants (31, 37 and 38 cm), one of them probably originated from Ungarn, the others from Sibirien. Sternberg standard label with localities (Hungarn, Sibirien).

b) Three branched, leafy stems (35, 35 and 38 cm) and one young sterile stem (22 cm). Small bag with fragments. Small label, written probably by Kitaibel: "Artemisia monogyna mihi". This specimen selected as lectotype.

c) Three upper parts of leafy stems (28, 40 and 39 cm) with flowers, one young stem (29 cm) and two parts of stems (18 and 24 cm) only with leaves. No label.

Stems woody below, more or less tomentose; lower cauline leaves petiolate, 2—3(—4) pinnatisect, more or less tomentose; upper cauline leaves entire, linear; involucre bracts glabrous to glabrescent, scarious on margin, 3—4 mm long.

= *Artemisia monogyna* WALDST. et KIT.

76. *Epilobium angustissimum* WEB.

77. *Waldsteinia geoides* WILLD.

78. *Salsola arenaria* WALDST. et KIT., Icon. Pl. Rar. 1: 80, tab. 78, 1801. — PR 155830/940 a, b, c.

a) One branched, leafy, flowering plant (60 cm), and one leafy branch (37 cm). Small bag with fragments. No label.

b) One branched, leafy, flowering plant (31 cm) with roots. Waldstein label with limited description. This plant is selected as lectotype.

c) One leafy, branched plant (34 cm) with flowers. Sternberg standard label and small Waldstein label: "Salsola arenaria WALD. — auf dem Hügeln bey Pest, Raab...".

Stems procumbent to erect; leaves filiform, up to 15 mm.

= *Kochia laniflora* (GMELIN) BORBÁS

79. Verbascum floccosum Waldst. et Kit., Icon. Pl. Rar. 1:81, tab. 79, 1801. — PR 155819/10230 a, b, c.

a) One branch (37 cm) with one big leaf 12 × 10 cm and many flowered inflorescence. Sternberg standard label only with name: "Verbascum floccosum Waldstein" and small Waldstein label: "Verbascum lanatum N. Sp.? — V. phlomoides? in Vesprimer Comitatus".

b) Two basal leaves 51 × 12 cm and 35 × 12,5 cm. No label.

c) One upper leafy stem (104 cm) with branched inflorescence. No label. This plant correspond well to illustration and description and therefore it is selected as lectotype.

More or less densely tomentose plants (sheet b) or white floccose (sheet c); basal leaves oblong to lanceolate, subentire; inflorescence branched (sheet c) or only with two branches (sheet a).

Material is heterogenous.

= *Verbascum pulverulentum* VILL. complex

80. Achillea setacea Waldst. et Kit., Icon. Pl. Rar. 1:82, tab. 80, 1801. — PR 26251/724. Plate 10.

Five leafy plants (13—25 cm), four of them with inflorescences. Small label, probably written by Kitaibel: "Achillea setacea mihi".

Middle cauline leaves lanceolate in outline, up to 2,2 cm long and ca. 3 mm wide, 3 pinnatisect, pubescent; capitula 3 × 1,5 mm, bracts pubescent.

= *Achillea setacea* WALDST. et KIT.

81. Delphinium fissum Waldst. et Kit., Icon. Pl. Rar. 1:83, tab. 81, 1801. — PR 155764/732.

Three simple stems (37, 63 and 60 cm) with fruits and remains of leaves. Small Waldstein label: "Delphinium digitatum N. Sp., D. molle; bey Metudia auf dem Berg Domugleth gegen der Wallachia". There is added "Delphinium fissum" in unknown handwriting. Plants not well preserved.

Stems erect, hairy; cauline leaves petiolate (6—10 cm), lamina divided with narrow, linear segments hairy or glabrous; follicules young, ca. 6 mm long, glabrous or densely pubescent with long styles (up to 3 mm).

In PR-herbarium no other Waldstein's species is designated as *Delphinium fissum*, but this specimen of *D. digitatum* (this name was not published) is identical with *D. fissum* WALDST. et KIT.

82. Allium ampeloprasum Waldst. et Kit., Icon. Pl. Rar. 1:84, tab. 82, 1801. — The type is not deposited in PR.

83. Carduus candicans Waldst. et Kit., Icon. Pl. Rar. 1:85, tab. 83, 1801. — The type is not deposited in PR.

84. Genista ovata Waldst. et Kit., Icon. Pl. Rar. 1:86, tab. 84, 1801. — PR 155808/777.

One leafy plant (30 cm) with fruits. Small bag with a few seeds and one legume. Small Waldstein label: "Genista ovata N. Sp. — Banat".

Stem hairy; cauline leaves simple, ovate, ca. 30 × 11—12 mm, hairy, with conspicuous lateral veins; inflorescence in short racemes; legumes 27—32 × 4—5 mm long, hairy.

= *Genista ovata* WALDST. et KIT.

85. Hieracium echioides Lumn.

86. Melampyrum barbatum Waldst. et Kit., Icon. Pl. Rar. 1:89, tab. 86, 1801. — PR 155796/771.

Three upper parts of stems (28,33 and 33 cm), branched, leafy and with inflorescences. Sternberg standard label with locality (Hungary) and small Waldstein label: "Melampyrum barbatum Wald. — Ungarn auf Acker".

Internodes in middle part of stem 2,5—4 cm, pubescent; leaves lanceolate triangular, 3,0—3,3 × 4,7 cm, entire; spike cylindrical, bracts ovate-lanceolate, with long narrow teeth and long entire acuminate apex; calyx with long hairs, corolla ca. 20 mm long.

= *Melampyrum barbatum* WALDST. et KIT.

87. Arenaria pendula Waldst. et Kit., Icon. Pl. Rar. 1:90, tab. 87, 1801. — PR 155738/710 a, b.

a) Three branched, leafy stems (12—17 cm) with flowers and three small fragments. Sternberg standard label with locality (Hungary) and small label, probably written by Kitaibel: "Arenaria pendula N. Sp.". This specimen selected as lectotype.

b) Nine various leafy parts of stems (4—21 cm), two of them with flowers. No label.

Stems filiform, pubescent; leaves linear-acuminate, [10—] 15–23 × 1–2 mm, three-nerved, glabrescent; flowers solitary or in 2–3 flowered cymes; petals longer than glabrous sepals. There are only one-veined leaves on the original illustration.

= *Moehringia pendula* (WALDST. et KIT.) FENZL.

88. *Saxifraga cymosa* Waldst. et Kit., Icon. Pl. Rar. 1: 91, tab. 88, 1801. — PR 155833/789.

One densely leafy rosette with one broken stem (3 cm). Small Waldstein label: "*Saxifraga cymosa* mihi; *S. pedemontana* Lam. et Dec. Pers. Syn. All. ped. mon.; *S. caespitosa* Wulff. in Jacq. — In albus Marmaroscensibus". Not well preserved.

Stem densely glandular pubescent; leaves cuneate to semicircular in outline, palmately irregularly divided into ca. 5 segments; one isolated flower with corolla much longer than hypanthium; hypanthium 2 mm long, sepals 3,5–4 mm, petals ca. 11 mm long.

= *Saxifraga cymosa* WALDST. et KIT.

89. *Seseli leucospermum* Waldst. et Kit., Icon. Pl. Rar. 1: 92, tab. 89, 1801. — PR 155829/941 a, b.

a) One upper branched stem (37 cm) with umbels and one bunch of basal leaves. Small label (unknown handwriting): "*Seseli leucospermum* N. Sp."

b) One plant (34 cm) with basal leaves and two umbels (broken umbels in a separate bag), and one upper part of stem (35 cm) without leaves and with young umbels. Sternberg standard label with locality (Hungary). This specimen selected as lectotype.

Stems terete, ribbed, glabrous, only in uppermost part of stem pubescent; basal leaves 4- to 5-pinnate, with long linear setaceous lobes, glabrous; rays of umbels 7–12, up to 11 mm long, puberulent, bracts 0–3; bracteoles connate at the base; fruits young.

= *Seseli leucospermum* WALDST. et KIT.

90. *Brassica polymorpha* Murr.

91. *Alyssum tortuosum* Waldst. et Kit., Icon. Pl. Rar. 1: 94, tab. 91, 1802. — PR 502369/795.

Four simple, leafy, flowering stems (7,5–11,5 cm) and one branched, leafy stem (5 cm) with fruits. Small bag with flowers. Small label probably written by Kitaibel: "*Alyssum tortuosum* N. Sp." and revision label by T. R. Dudley from Febr. 1968: "*A. tortuosum* Willd. Sp. pl. 3 (1), 1800 not Waldst. et Kit. 1802".

Stems and leaves densely whitish appressed tomentose, with stellate hairs; leaves obovate, 8 × 2 mm; flowers small, fruits 2,5–3,0 × 1,5 mm, elliptical, densely greyish pubescent also with stellate hairs; styles 0,5–1 mm long, glabrescent.

= *Alyssum tortuosum* WALDST. et KIT. ex WILLD.

92. *Alyssum edentulum* Waldst. et Kit., Icon. Pl. Rar. 1: 95, tab. 92, 1802. — PR 502368/794.

Seven leafy, branched stems (25–38 cm) with flowers and fruits. Small bag with fragments. Small label, probably written by Kitaibel: "*Alyssum edentulum* N. Sp."; and added by L. Čelakovský "Herb. Waldstein". According to revision label (Dudley 1968) plants correspond with *Alyssum petraeum* Ard.

Cauline leaves up to 2,5 cm long and 0,4 cm wide, long and stellate hairy, on upper part green and grey-whitish below; flowers very small; silicula 3,5 × 2,5 mm, obovate, valves inflated, but with narrow flattened margin, glabrous; style short, ca. 1 mm long, glabrous.

= *Alyssum petraeum* ARD.

93. *Euphorbia villosa* Waldst. et Kit., Icon. Pl. Rar. 1: 96, tab. 93, 1802. — PR 155813/10056.

One upper, simple, leafy part of stem (23 cm) with young inflorescences. Small Waldstein label: "*Euphorbia villosa* mihi N. Sp.? Ungarn...".

Stem glabrous with elliptical, oblong-lanceolate leaves, up to 3,4 cm long and 9–11 mm wide, entire or serrulate in apical part of leaf, hairy at the both sides.

= *Euphorbia villosa* WALDST. et KIT.

94. *Chrysanthemum macrophyllum* Waldst. et Kit., Icon. Pl. Rar. 1: 97, tab. 94, 1802. — PR 155752/734.

Two upper, leafy, simple stems (31 and 32 cm) with inflorescences. Small Waldstein label: "*Pyrethrum macrophyllum*, *Chrysanthemum* — /macrophyllum/, *Achillea* — /macrophylla/; in Banat, Croatia".

Leaves pinnatopartite, up to 14 cm long, glabrous above, densely hairy beneath; capitula in very dense inflorescences (7,0–7,5 cm in diameter), involucrel bracts 4–5 mm; ligulate flowers short (up to 2 mm); achenes 5-ribbed, pappus a denticulate corona.

= *Tanacetum macrophyllum* (WALDST. et KIT.) SCHULTZ BIP.

95. *Anthericum sulphureum* Waldst. et Kit., Icon. Pl. Rar. 1:98, tab. 95, 1802. — The type is not deposited in PR.

96. *Cerastium manticum* L.

97. *Cerastium sylvaticum* Waldst. et Kit., Icon. Pl. Rar. 1:100, tab. 97, 1802. — PR 502329/746. Plate 11.

One leafy plant (21 cm) with flowers, two upper parts of stems (20 and 22 cm) with leaves and flowers, and rooting basal branches with one broken stem (20 cm) without flowers. Small label, probably written by Kitaibel: "*Cerastium sylvaticum* N. Sp." with added name "Waldstein" by unknown author. Sternberg standard label with locality (Hungarn).

Stems hirsute; lower cauline leaves petiolate, oblanceolate, hairy (also with glandular hairs), upper cauline leaves sessile, elliptic-lanceolate, 3,5–4,3 × 1,0–1,8 cm; bracts usually with scarious margin; petals longer than calyx, sepals hairy, 4–6 mm long, with scarious margin; anthers ciliate at the base.

= *Cerastium sylvaticum* WALDST. et KIT.

98. *Erysimum angustifolium* Ehrh.

99. *Hieracium grandiflorum* All.

100. *Myosotis obtusa* Waldst. et Kit., Icon. Pl. Rar. 1:103, tab. 100, 1802. — PR 155795/770.

Two upper, leafy parts of stems (27 and 37 cm) with inflorescences; separate one small part of inflorescence (4 cm). Large Waldstein label with full description; the original name on label was *Myosotis repens* N. Sp., later *M. acuta* (both names were accossed) and finally designated *Myosotis obtusa*.

Stems hispid, with patent tubercle based hairs; cauline leaves sessile, oblong-lanceolate, 5,5–7,0 × 0,8–1,2 cm, densely appressed or patent hairy; calyx 2,5–3,5 cm long, with long appressed hairs, divided up to 2/3, corolla with short tube.

= *Anchusa barrelieri* (ALL.) VITMAN

101. *Helleborus purpurascens* Waldst. et Kit., Icon. Pl. Rar. 2:105, tab. 101, 1802. — The type is not deposited in PR.

102. *Veronica foliosa* Waldst. et Kit., Icon. Pl. Rar. 2:106, tab. 102, 1802. — PR 155817/797 a, b.

One densely leafy plant (21 cm) with branched inflorescences. Small bag with fragments. Small Waldstein label: "*Veronica brevifolia* N. Sp. Wald., bey Debrezin in sandischen Waldungen auch bey Ofend"; later was named: "*V. foliosa* W. K." (unknown handwriting). This plant selected as lectotype.

b) Two leafy stems (21 and 25 cm) with branched inflorescences (top of both plants is broken). Sternberg standard label with locality (Hungarn).

Stems and leaves glabrescent, middle cauline leaves ovate, short petiolate, 3,5–5 × 1,4–2 cm, cuneate at the base, margine serrate; inflorescence with pedicels 2–3 mm long, usually longer than linear-filiform bracts, short hairy.

= *Veronica foliosa* WALDST. et KIT.

103. *Atriplex acuminata* Waldst. et Kit., Icon. Pl. Rar. 2:107, tab. 103, 1802. — PR 155739/706.

One branched, leafy upper part of stem (38 cm) with inflorescences. One separate leaf. Sternberg standard label with locality (Hungarn) and note: "Aus meinen Garten und Graf Waldsteins Herbarium". Plant well preserved, inclusive colour.

Leaves hastate-triangular, irregularly lobed, 6–7 × 3,5–6 cm, glabrous above, farinose beneath; inflorescence young, bracteoles oblong-cordate, with entire margin.

= *Atriplex nitens* SCHKUHR

104. *Sedum spathulatum* Waldst. et Kit., Icon. Pl. Rar. 2:108, tab. 104, 1802. — The type is not deposited in PR, nor in BP.

105. *Linum nervosum* Waldst. et Kit., Icon. Pl. Rar. 2:109, tab. 105, 1802. — PR 155799/772.

One perennial plant with simple, leafy stem (36 cm) and inflorescence. Sternberg standard label with locality (Hungarn).

Stem striate, glabrous; middle cauline leaves lanceolate-acuminate, 2,1—2,8 × 0,3—0,4 cm, three-veined, with scabrid margin; sepals 6—7 mm long, ovate-lanceolate, narrowly acuminate with narrow ciliate membranaceous margins; capsule subglobose, 3,5 mm long, shorter than calyx.

= *Linum nervosum* WALDST. et KIT.

106. *Salsola cinerea* Waldst. et Kit., Icon. Pl. Rar. 2:110, tab. 106, 1802. — The type is not deposited in PR.

107. *Bunias cochlearioides* Waldst. et Kit., Icon. Pl. Rar. 2:111, tab. 107, 1802. — The type is not deposited in PR.

108. *Ranunculus pedatus* Waldst. et Kit., Icon. Pl. Rar. 2:112, tab. 108, 1802. — The type is not deposited in PR.

109. *Aster punctatus* Waldst. et Kit., Icon. Pl. Rar. 2:113, tab. 109, 1802. — PR 502361/722 a, b, c.

a) Four leafy, upper parts of stems (24, 28, 32 and 37 cm) with branched many-flowered inflorescences. Small Waldstein label: "Aster punctatus — vel vimineus N. Sp.; auf Salzplätzen bey Segedin". This specimen selected as lectotype.

b) One leafy stem (29 cm) with many-flowered branched inflorescences. Small bag with fragments. Sternberg standard label with locality (Hungarn) and small Waldstein label: "Aster punctatus Waldstein, bey Szegedin auf Salzplätze".

c) Three leafy stems (21, 22 and 30 cm) with branched many-flowered inflorescences. Small bag with fragments. No label.

Stems green, glabrous, scabrid; leaves green, hairy, especially beneath; branches in inflorescences pubescent with some glandular hairs, involucre bracts glandular hairy; ligules 8—12 mm long.

= *Aster punctatus* WALDST. et KIT.

110. *Apartia aspera* Waldst. et Kit., Icon. Pl. Rar. 2:114, tab. 110, 1802. — The type is not deposited in PR.

111. *Hedysarum album* Waldst. et Kit., Icon. Pl. Rar. 2:115, tab. 111, 1802. — PR 155804/10057.

One stem (20 cm) with leaves and flowers and one basal part of stem (31) with two leaves, without flowers; two separate parts of plants (stem with one leaf and one inflorescence). One bag with fragments. Small Waldstein label: "Hedysarum album N. Sp.; in Banath bey Sciklowa". Further Sternberg standard label with locality (Hungarn) and revision label by G. I. Širjaev (1923): "O. alba Desv. v. typica mihi".

Stem and leaves pubescent; leaves with 8—10 pairs of leaflets, linear, 9—23 × 1,5 mm; calyx with patent hairs and long teeth (6 mm), much longer than the tube, corolla ca. 8 mm long; legumes 6—7 × ca. 4 mm, hairy, toothed, more or less orbicular, compressed, foveolate.

= *Onobrychis alba* (WALDST. et KIT.) DESV.

112. *Tragopogon floccosus* Waldst. et Kit., Icon. Pl. Rar. 2:116, tab. 112, 1802. — PR 495668/935.

Two leafy stems (35 and 39 cm), the latter branched, without inflorescences, and one below part of stem with basal rosette of leaves. Small bag with fragments (stem, capitulum). Sternberg standard label with locality (Hungarn).

Stems more or less lanate; cauline leaves linear, widened at the base, with undulate margin, basal leaves similar, linear, 9—12 cm long and up to 4 mm wide; inflorescence with unflated peduncle; involucre bracts 8, usually 3,2—3,7 mm long; achenes muriccate, 2,0—2,3 cm long, annulus shortly hairy, pappus 1,6—1,9 cm long.

= *Tragopogon floccosus* WALDST. et KIT.

113. *Bupthalmum cordifolium* Waldst. et Kit., Icon. Pl. Rar. 2:117, tab. 113, 1802. — PR 495742/718 a, b, c.

a) One big leaf, partly damaged, lamina 32 × 22,5 cm with petiolus 6 cm long and one branched stem (31 cm) with two sessile leaves and fragments of capitula. Small bag with fragments. Small Waldstein label: "Bupthalmum cordifolium N. Sp. — an *B. speciosum* Schreb. — *Micranthemum speciosum* Lerchenfeld. Crescit in Banatus, Oravitza, Montes Szancsilova, Mehadiae et Bartfeld" with later addition "Waldsteinisches Herbarium" (unknown handwriting). This plant selected as lectotype.

- b) Two leaves with lamina 23 × 19 cm and 14,5 × 12,5 cm, petiole 4,5 and 11 cm and one short branch with inflorescence in full flower (7 cm in diameter). No label.
c) Two leaves with lamina 21 × 18 cm and 27 × 22 cm with broken petioles. No label. All leaves cordate, glabrescent above and pubescent beneath, roughly crenate-serrate.
= *Telekia speciosa* (SCHREB.) BAUMG.

114. *Leontodon serotinum* Waldst. et Kit., Icon. Pl. Rar. 2:119, tab. 114, 1802. — PR 376398/3238.

Two plants (one of them partially damaged) with basal rosette of leaves and inflorescences. Small bag with fragments. Sternberg standard label with note: "Gesammelt by Wedröd in Hungarn in Gesellschaft meines Freundes Gf. Waldstein 1802".

Leaves obovate-lanceolate, up to 18 cm long and 5,5 cm wide, shallowly lobed, irregularly denticulate, thick; scapes 3–12 cm, slender, green, more or less woolly; capitula relatively small, outer involucre bracts linear with pale margin.

= *Taraxacum serotinum* (WALDST. et KIT.) POIRET in LAM.

115. *Leontodon lividum* Waldst. et Kit., Icon. Pl. Rar. 2:120, tab. 115, 1802. — PR 376399/3239.

Two basal rosette of leaves without inflorescences and one plant (partially damaged) with two inflorescences. One bag with fragments. Small Waldstein label: "Leontodon lividum, in Sümpfen bey Pesth".

Leaves linear to linear-oblongate, 8–23 cm long and 4–18 mm wide, shallowly lobed; scapes up to 16 cm, glabrous, capitulum 25 mm in diameter, outer involucre bracts ovate, broadly acuminate with very wide pale scarious margin.

= *Taraxacum lividum* (WALDST. et KIT.) PETERM.

116. *Centaurea atropurpurea* Waldst. et Kit., Icon. Pl. Rar. 2:121, tab. 116, 1802. — The type is not deposited in PR.

117. *Seseli gracile* Waldst. et Kit., Icon. Pl. Rar. 2:122, tab. 117, 1802. — PR 155828/939 a, b.

a) One leafy, branched plant (35 cm) with umbels, two separate leaves. Small Waldstein label: "Seseli lucidum (epithet 'lucidum' was crossed out and replaced by the word 'gracile') N. Sp. — Auf dem Domugleth, Trajanische Tafel in Serbien, Weteranische Höhe". This plant selected as lectotype.

b) One basal, leafy part of simple stem (35 cm) without umbel, one part of stem and four separate leaves. Small bag with fragments. Sternberg standard label with locality (Hungarn).

Stems minutely ribbed, glabrous; leaves 3-pinnate, divided in linear-setaceous segments, glabrous; rays of umbels 6–8, up to 30 mm long, glabrous, bracts 0 (–2), filiform bracteoles free; fruits 2–3 × 1,5–2 mm, ellipsoid or ovoid, glabrous, prominently ridged.

= *Seseli gracile* WALDST. et KIT.

118. *Orobus ochroleucus* Waldst. et Kit., Icon. Pl. Rar. 2:123, tab. 118, 1802. — PR 155792/769.

One leafy branched plant (53 cm) and one leafy branch (22 cm). One bag with fragments of leaves and flowers. Small Waldstein label: "Orobis ochroleucus N. Sp. Ofener Waldungen".

Stem sparsely pubescent; leaves with 6–10 pairs of leaflets, leaflets 18–21 × 5–6 mm, oblong-elliptical, in apex shortly mucronate, glabrous; flowers yellowish, 14 mm long, calyx teeth shorter than tube.

= *Vicia sparsiflora* TEN.

119. *Glechoma hirsuta* Waldst. et Kit., Icon. Pl. Rar. 2:124, tab. 119, 1802. — PR 155806/776.

There is a mixed material of two species on sheet.

1) *Glechoma hirsuta* Waldst. et Kit. (lectotype) — one more or less erect, leafy stem (21 cm) with rather long hairs; leaves long petiolate (2,6–3,6 cm), lamina 2,8–3 × 3–3,3 cm, broadly ovate, triangular-cordate, crenate-serrate; calyx 7–10 mm long, teeth of upper lip 1/2 as long as tube, linear lanceolate, acuminate, corolla 20–24 mm long. Sternberg standard label with locality (Hungarn) and note: "Aus Graf Waldsteins Herbarium und der Gl. Sieber und Gl. Lindehard Herbarium".

This plant well corresponds to original illustration.

= *Glechoma hirsuta* WALDST. et KIT.

2) *Glechoma hederacea* L. — simple leafy stem (17 cm) with flowers, stem ascending, hairy; leaves with petioles 1,0–1,5 cm long, lamina ovate-triangular, cordate, 1,5–1,7 × 1,5–1,6 cm, crenate-serrate; calyx 5–7 mm long, teeth of upper lip 1/3 as long as tube, triangular-acuminate, corolla 11–12 mm long.

120. *Arabis halleri* L.

121. *Scorzonera rosea* Waldst. et Kit., Icon. Pl. Rar. 2:127, tab. 121, 1802. — PR 495868/792.

Four plants with rootstocks, basal leaves and stems without inflorescences, one rootstock and one stem solitary. Sternberg standard label with locality (Hungarn, Kärnten, Italien. — Gesammelt in valle Greddo nächst dem Baldo 1804).

Rootstock densely fibrous at apex; basal leaves grasslike, 12–33 cm long and 1–4 mm wide, flat, glabrous, cauline leaves similar to basal; stems simple, rarely branched, broken, without flowers.

= *Scorzonera rosea* WALDST. et KIT.

122. *Scorzonera angustifolia* Waldst. et Kit., Icon. Pl. Rar. 2:128, tab. 122, 1802. — The type is not deposited in PR.

123. *Geranium divaricatum* Ehrh.

124. *Geranium umbrosum* Waldst. et Kit., Icon. Pl. Rar. 2:131, tab. 124, 1802. — PR 155805/775.

One subtile, leafy plant (25 cm) with inflorescence, separate one big rootstock with one petiolate small leaf — this part belongs to another species. Small blue label, probably written by Kitaibel: “*Geranium umbrosum* N. Sp.”.

Stem with short glandular and long eglandular hairs; leaves petiolate, lamina up to 3 cm wide, divided up to 2/3 into 3–5 shortly pinnatifid lobes; pedicels 2,0–2,3 cm long, densely pubescent; calyx 4 mm long, sepals shortly mucronate, corolla absent; mericarp with short appressed hairs.

= *Geranium pyrenaicum* BURM. FIL.

125. *Scutellaria peregrina* Waldst. et Kit., Icon. Pl. Rar. 2:132, tab. 125, 1802. — PR 155826/787.

One stem (37 cm) with three short branches, bad preserved leaves and inflorescence. Label, written by C. B. Presl with name: “*Scutellaria commutata* Guss. and *S. peregrina* W. K.” and note “Ex herbario Waldsteiniano”.

Leaves in uppermost parts ovate, 2,1–2,5 × 1,0–1,6 cm, serrate, shortly hairy, especially on veins and on margins; bracts ovate, probably shorter than flowers; calyx with a few long hairs; corolla absent.

= Some species of *Scutellaria altissima* complex.

126. *Orobus alpestris* Waldst. et Kit., Icon. Pl. Rar. 2:133, tab. 126, 1802. — PR 155791/767.

Three leafy stems (21, 28 and 32 cm), two of them with inflorescences. Small Waldstein label: “*Orobus alpestris* Wald., Croatischen Alpen, ober Türkischen Festung Bihars”, and Sternberg standard label with locality (Croatien, ober der Türkischen Festung Bihars).

Stems glabrous; leaves with 1–3 pairs of leaflets, leaflets linear to lanceolate, 30–40 × 4–6 mm; racemes 5–6 flowered, calyx teeth unequal, glabrous, corolla ca. 15 mm long.

= *Lathyrus alpestris* (WALDST. et KIT.) KIT. ex ČELAK.

127. *Hieracium lanatum* Waldst. et Kit., Icon. Pl. Rar. 2:135, tab. 127, 1802. — The type is not deposited in PR.

128. *Senecio rupestris* Waldst. et Kit., Icon. Pl. Rar. 2:136, tab. 128, 1802. — PR 155832/788 a, b. Plate 12.

a) Two branched, leafy plants (28 and 32 cm) with inflorescences. Small label, written by Kitaibel: “*Senecio rupestris* mihi”. One plant selected as lectotype.

b) Two branched, leafy stems (32 and 33 cm) with inflorescences. No label.

Young stems and leaves more or less floccose, later stems glabrescent; lower cauline leaves deeply pinnatifid with distant lobes; middle cauline leaves 7,5–8,0 cm long, upper cauline leaves more or less pinnatifid and uppermost dentate only; capitula in a last irregular corymb, involucrel bracts 7–8 mm long, lanceolate, supplementary

bracts 2 mm long; ligules ca. 11 mm; achenes subcylindrical, 3 mm long, appressed hairy, ribbed.

= *Senecio rupestris* WALDST. et KIT.

129. *Cardamine carnosa* Waldst. et Kit., Icon. Pl. Rar. 2:137, tab. 129, 1802. — PR 155754/747 a and 539545/747 b.

a) One, branched leafy plant (16 cm) with flowers and fruits. Small Waldstein label: "Cardamine carnosa Wald. — in Croatischen und Dalmatischen Alpen" and Sternberg standard label with localities (Croatien, Dalmatien). This plant selected as lectotype.

b) Three small fragments (2—4 cm), bad preserved, with a few leaves, without flowers. Small label [unknown handwriting]: "Badany" and small blue label, probably written by Kitaibel: "Cardamine carnosa N. Sp." with note added later "Coll. Waldstein".

Plants dispersely hairy; leaves pinnate with 3 pairs of entire leaflets, leaflets obovate-cuneate 4,0—5,0 × 2,5—4,0 mm; shortly petiolulate; sepals 3 mm and petals ca. 6 mm long; siliqua appressed hairy, not ripe.

= *Cardamine carnosa* WALDST. et KIT.

130. *Astragalus campestris* Waldst. et Kit., Icon. Pl. Rar. 2:138, tab. 130, 1802. — The type is not deposited in PR.

131. *Lamium orvala* L.

132. *Cytisus leucanthus* Waldst. et Kit., Icon. Pl. Rar. 2:141, tab. 132, 1803. — PR 155753/733 a, b.

Two densely leafy stems (20,5 and 31 cm) with inflorescences. Small Waldstein label: "Cytisus leucanthus N. Sp.? Im Banath. Differt ab austriacus foliis aggregatis, ternis, aut quaternis, foliolis ovato oblongis, calycibus bilabiatis, obtusis, corollis flavescenti albis". Sternberg standard label with locality (Banat). This specimen selected as lectotype.

b) Four densely stems (18—22 cm) with inflorescences and one broken branch (3 cm). No label.

Stems appressed and patent hairy; leaflets oblong-obovate, 12—20 × 4—5 mm, on both sides appressed hairy; flowers usually in terminal heads, (18—) 20—25 mm long, calyx with patent, yellowish hairs.

= *Chamaecytisus albus* (HACQ.) ROTHM.

133. *Stachys obliqua* Waldst. et Kit., Icon. Pl. Rar. 2:142, tab. 133, 1803. — The type is not deposited in PR.

134. *Vicia sordida* Waldst. et Kit., Icon. Pl. Rar. 2:143, tab. 134, 1803. — The type is not deposited in PR.

135. *Euphorbia ambigua* Waldst. et Kit., Icon. Pl. Rar. 2:144, tab. 135, 1803. — PR 155812/780.

One leafy stem (30 cm) with inflorescences. Sternberg standard label with locality (Hungarn).

Middle cauline leaves obovate to oblong, ca. 4 cm long and 12 mm wide, glabrous, entire; rays leaves like the cauline, 3,0—3,5 cm long and 10—11 mm wide, rays 5, raylet-leaves 19—20 × 9—10 mm, ovate-lanceolate, entire; capsule not ripened with some hemispherical tubercles; glands brownish, reniforme.

= *Euphorbia carniolica* JACQ.

136. *Campanula flexuosa* Waldst. et Kit., Icon. Pl. Rar. 2:145, tab. 136, 1803. — PR 155751/735.

Twenty, leafy, simple stems (6—15 cm), 15 of them with flowers. Small bag with fragments of stems and flowers. The part of Sternberg standard label with locality (Hungarn) and small label written by C. B. Presl: "Campanula flexuosa Waldst. Kit. C. Waldsteiniana Roem. Schult."

Plants glabrous; cauline leaves petiolate, elliptical to ovate, denticulate, upper cauline leaves usually sessile, 10—20 × 2—4 mm; flowers in a few flowered inflorescences; calyx teeth linear, corolla 7—10 mm long.

= *Campanula waldsteiniana* SCHULTES in ROEM. et SCHULT.

137. *Scutellaria alpina* L.

138. *Scabiosa stricta* Waldst. et Kit., Icon. Pl. Rar. 2:147, tab. 138, 1803. — The type is not deposited in PR.

139. *Dentaria trifolia* Waldst. et Kit., Icon. Pl. Rar. 2:148, tab. 139, 1803. — PR 155765/750.

Two leafy stems (15 and 24 cm) with flowers. Small blue label, probably written by Kitaibel: "*Dentaria trifolia* N. Sp." and small Waldstein label: "*Dentaria trifolia* Wald. — in subalpinis Croatiae". Sternberg standard label with localities (Hungarn und Croatien).

Basal leaves long petiolate (up to 3,2 cm), ternate; leaflets subsessile, lanceolate-acuminate, irregularly serrate, glabrous; flowers white, long pedicelate (ca. 1,5 cm), petals 11 × 9 mm.

= *Dentaria trifolia* WALDST. et KIT.

140. *Cardamine chelidonia* L.

141. *Rubus hirtus* Waldst. et Kit., Icon. Pl. Rar. 2:150, tab. 141, 1803. — The type is not deposited in PR.

142. *Trigonella monspeliaca* L.

143. *Senecio croaticus* Waldst. et Kit., Icon. Pl. Rar. 2:153, tab. 143, 1803. — PR 155831/10051 a, b, c.

a) One upper part of stem (21 cm) with leaves and inflorescences. Small Waldstein label: "*S. croaticus* — Waldungen", and label with name, localities (In Ungarn u. den Italiens Gränzgebirge), note ("Auf der Höhe der Grappen unweit Bassano gesammelt 1804") — all written by unknown author, only last note "Aus Waldsteins Herbarium" is written by Sternberg.

b) and c) On each sheet there is one upper leafy part of stem (27 and 30 cm) with inflorescences. No label.

Stems branched in inflorescences; cauline leaves shortly petiolate, lanceolate, elliptic-lanceolate, glabrescent above, dispersely hairy beneath, dentate, uppermost sessile; involucre bracts 6—7 mm long, glandular hairy, supplementary bracts 1—3, filiform, longer than involucre bracts; ligules absent.

= *Senecio cacaliaster* LAM.

144. *Arabis procurrens* Waldst. et Kit., Icon. Pl. Rar. 2:154, tab. 144, 1803. — PR 495624/715. Plate 13.

Three plants; one plant with 5 leafy sterile stolons (up to 22 cm long) and one flowering stem (30 cm), one basal rosette with a few broken leafy stems and one fruiting stem with leaves (22 cm), separate three fragments of plants. Small blue label, probably written by Kitaibel: "*Arabis procurrens* N. Sp." with later added note "Coll. Waldstein".

Stems glabrous; basal leaves up to 4 cm long and 12 mm wide, obovate to oblanceolate, entire, glabrous, only with sparsely mixed hairs on margin and veins of lower surface; cauline leaves rounded at the base; calyx 3—4 mm long, petals 8—9 mm, white.

= *Arabis procurrens* WALDST. et KIT.

145. *Hieracium foliosum* Waldst. et Kit., Icon. Pl. Rar. 2:155, tab. 145, 1803. — The type is not deposited in PR.

146. *Seseli rigidum* Waldst. et Kit., Icon. Pl. Rar. 2:156, tab. 146, 1803. — PR 155827/938 a, b.

a) One upper robust part of stem (34 cm), densely leafy and branched, with umbels, one lower part of stem with a few leaves; one separate leaf. Small Waldstein label: "*Seseli rigidum* N. Sp. — in Kalkischen Felsen des Banatus bei dem Schloss Bée, bey Saska, Mehadia, Veteranischen Höhen und Trajanischen Tabulae". This specimen selected as lectotype.

b) One leafy, branched plant (54 cm), broken into two parts, with umbels. Sternberg standard label with locality (Banat).

Stems ribbed, puberulent, leaves 2—3 (—4) pinnate with linear-acuminate lobes (up to 2 mm wide), glabrous; rays of umbels many, up to 3,5 cm long, puberulent, bracts 0—1, bracteoles ca. 19, connate at the base, flowers young.

= *Seseli rigidum* WALDST. et KIT.

147. *Thymus acicularis* Waldst. et Kit., Icon. Pl. Rar. 2:157, tab. 147, 1803. — PR 495666/893.

Three plants; two leafy, branched (6 and 10 cm) with inflorescences and one sterile,

leafy stem (10 cm). Small Waldstein label: "Thymus acicularis N. Sp. — Alp. Badany und Debelo Berdo" and Sternberg standard label with locality (Hungarn).

Stems hairy only on two opposite sides; leaves linear, 10—11 × 1 mm, glabrous, on margin dispersely ciliate; bracts purplish, ovate-triangular, 4—6 mm long, veins distinct, sparsely pubescent and ciliate; calyx purplish, with teeth up to 3 mm long, upper teeth lanceolate, distinctly ciliate.

= *Thymus striatus* VAHL.

148. *Cynoglossum umbellatum* Waldst. et Kit., Icon. Pl. Rar. 2: 158, tab. 148, 1803. — PR 155815/783.

One densely leafy, simple stem (40 cm) with inflorescence. Small Waldstein label: "Cynoglossum umbellatum N. Sp. — in Banath, zwischen Deliblat und...", with note by C. B. Presl: "Rindera umb."

Stem hirsute; cauline leaves lanceolate, 8—10 × 0,5 cm, sparsely sericeous; inflorescence subumbellate, with long pedicels; flowers and fruits bad preserved.

= *Rindera umbellata* (WALDST. et KIT.) BUNGE

149. *Pinus pumilio* Haenke

150. *Asperula longiflora* Waldst. et Kit., Icon. Pl. Rar. 2: 162, tab. 150, 1803. — PR 502370/714.

One plant (35 cm) with leaves and inflorescence. Small bag with fragments of leaves and flowers. Small Waldstein label: "Asperula longiflora Wald. — in alpinis et subalpinis Wellebich, Croatiae et Dalmatiae".

Stem ascending, internodes up to twice as long as leaves, basal leaves small, 4—5 × 1—1,5 mm, cauline leaves 4 in whorl, 2—3 cm long, and 1 mm wide, revolute, grey-green; partial inflorescence more or less spicate; flowers 5—6 mm long, tube more or less twice longer than lobes, tube without hairs.

= A species of *Asperula aristata* L. fil. complex.

151. *Plantago sericea* Waldst. et Kit., Icon. Pl. Rar. 2: 163, tab. 151, 1803. — The type is not deposited in PR.

152. *Carlina simplex* Waldst. et Kit., Icon. Pl. Rar. 2: 164, tab. 152, 1803. — The type is not deposited in PR.

153. *Genista triquetra* Waldst. et Kit., Icon. Pl. Rar. 2: 165, tab. 153, 1803. — The type is not deposited in PR.

154. *Campanula graminifolia* L.

155. *Campanula tenuifolia* Waldst. et Kit., Icon. Pl. Rar. 2: 168, tab. 155, 1803. — PR 155750/736.

One leafy plant (17 cm) with short rhizom and inflorescence. Small Waldstein label: "Campanula tenuifolia Wald. — in Croatiën in Kalkfelsen", and Sternberg standard label with locality (Croatiën).

Basal leaves in rich rosette, linear-lanceolate, up to 5 cm long and 1,0—1,5 mm wide, ciliate, cauline leaves mostly broken, 1—3 mm wide; inflorescence ca. 6 flowered, with conspicuous leaf — like bracts much longer than flowers; flowers ca. 2 cm long.

= *Edraiantus tenuifolius* (WALDST. et KIT.) A. DC. in DC.

156. *Thymus piperella* Waldst. et Kit., Icon. Pl. Rar. 2: 169, tab. 156, 1803. — The type is not deposited in PR.

157. *Scabiosa silenifolia* Waldst. et Kit., Icon. Pl. Rar. 2: 170, tab. 157, 1803. — The type is not deposited in PR.

158. *Digitalis laevigata* Waldst. et Kit., Icon. Pl. Rar. 2: 171, tab. 158, 1803. — PR 155763/731.

One simple, leafy plant (36 cm) with rhizom and inflorescence. One bag with fragments. Small Waldstein label: "Digitalis laevigata N. Sp. — Vilena Draga, Forkasics Draga".

Basal cauline leaves damaged, middle cauline leaves oblong-lanceolate, ca. 8 × 1,4 cm, entire, three-nerved, mucronate, glabrous; raceme long, laxe with young, pedicelate flowers; calyx segments with narrow scarious, glandular ciliate margin.

= *Digitalis laevigata* WALDST. et KIT.

159. *Sternbergia colchiciflora* Waldst. et Kit., Icon. Pl. Rar. 2: 172, tab. 159, 1803. — The type is not deposited in PR.

160. *Dentaria polyphylla* Waldst. et Kit., Icon. Pl. Rar. 2: 174, tab. 160, 1803. — The type is not deposited in PR.

161. *Cnicus pauciflorus* Waldst. et Kit., Icon. Pl. Rar. 2: 175, tab. 161, 1803. — The type is not deposited in PR.

162. *Euphorbia virgata* Waldst. et Kit., Icon. Pl. Rar. 2: 176, tab. 162, 1803. — PR 155811/782 a, b.

a) Two leafy stems (33 and 35 cm) with inflorescences, one of them without top. Small Waldstein label: "Euphorbia virgata — in Hungarn". This specimen selected as lectotype.

b) One plant divided into two parts (36 and 8 cm), with very young inflorescence. Bag with fragments. Small label written by L. Čelakovský: "Euphorbia virgata WK; Ex Herb. Waldsteinii".

Stems glabrous; leaves linear-lanceolate, 4,0—5,0 × 0,5—0,6 cm, appressed to stem, narrowed gradually to apex, entire; ray-leaves shorter and wider than cauline, rays of umbel 5—6, raylet-leaves broadly cordate, 5 × 7—9 mm; inflorescence young.

= *Euphorbia virgata* WALDST. et KIT.

163. *Silene saxifraga* L.

164. *Silene petraea* Waldst. et Kit., Icon. Pl. Rar. 2: 178, tab. 164, 1803. — PR 155771/10068 a, b.

a) Five leafy, branched plants (8—17 cm) with flowers, two leafy fragments and two simple short stems (6—9 cm) with leaves and flowers. Sternberg standard label with locality (Hungarn).

b) Two rosettes with many leafy, branched stems (up to 24 cm) and flowers. Bag with fragments. Two small Waldstein labels: "S. petraea N. Sp. — in Banath, Trajanischen Tafel in Serviae". This specimen selected as lectotype.

Stems numerous, slender, slightly pubescent; leaves linear, up to 25 × 1 mm; inflorescences 1—2 flowered; calyx 8—10 mm, clavate, glabrous; capsule 7—8 mm.

= *Silene petraea* WALDST. et KIT. [very closely related to *S. saxifraga* L.]

165. *Trifolium recurvum* Waldst. et Kit., Icon. Pl. Rar. 2: 179, tab. 165, 1803. — PR 376400/3240.

Three upper leafy, branched parts of stems (26, 45 and 49 cm), one of them with flowers; three fragments of stems (6—14 cm) and one separate inflorescence. One bag with fragments. Small Waldstein label: "T. recurvum Ungarn".

Leaflets elliptical-oblong or obovate, 2,5—4,5 × 0,8—1,5 cm with spinulose denticulate margin; stipules with long setaceous apices; heads ovoid 2,0—3,5 cm long, peduncles up to 10 cm; calyx tube broadly cylindrical and contracted at mouth; teeth as long as tube; standard up to 17 mm.

= *Trifolium vesiculosum* SAVI

166. *Cytisus biflorus* L'Herit.

167. *Uvularia amplexifolia* L.

168. *Cerastium grandiflorum* Waldst. et Kit., Icon. Pl. Rar. 2: 183, tab. 168, 1803. — PR 502339/745.

Four leafy stems (12—23 cm) with flowers and one fragment of stem (15 cm) only with leaves. One bag with fragments. Small label probably written by Kitaibel: "Cerastium grandiflorum Waldstein, Croatischen dalmatischen Alpen" with note (unknown handwriting): "authentisch". Sternberg standard label with localities (Hungarn, Croatia, Dalmatien).

Plants whitish tomentose, uppermost internodia 5,0—5,5 cm long; middle cauline leaves 2,6—4,0 cm long, linear, with strongly revolute margin; inflorescence with 3—12 flowers sepals 7—8 mm long, whitish tomentose with scarious margin, petals 1,3—1,5 cm long.

= *Cerastium grandiflorum* WALDST. et KIT.

169. *Aquilegia viscosa* Waldst. et Kit., Icon. Pl. Rar. 2: 184, tab. 169, 1803. — PR 377014/3591.

Seven various parts of plants; three lower parts of stems with basal leaves, two stems (21 and 28 cm) with some cauline leaves and fruits, one plant with basal leaves and stem (17 cm), one middle part of stem (17 cm) without leaves and fruits, one separate leaf. Small Waldstein label: "Aquilegia viscosa in Carniolia in Alpi: Debello Berdo".

Stems glandular hairy, densely above; basal leaves 2-ternate; leaflets hairy; fruits young, glandular pubescent.

= *Aquilegia kitaibelii* SCHOTT

170. *Scrophularia laciniata* Waldst. et Kit., Icon. Pl. Rar. 2: 185, tab. 170, 1803. — The type is not deposited in PR.

171. *Laserpitium verticillatum* Waldst. et Kit., Icon. Pl. Rar. 2: 186, tab. 171, 1804. — The type is not deposited in PR.

172. *Dianthus serotinus* Waldst. et Kit., Icon. Pl. Rar. 2: 188, tab. 172, 1804. — PR 495855/739. Plate 14.

One leafy branched plant (37 cm) with flowers; four leafy stems (15–26 cm), three of them with flowers. Small label probably written by Kitaibel: "*Dianthus serotinus* N. Sp."

Plants glaucous, flowering stems with 6–7 pairs of leaves; middle cauline leaves 11–25 (–35) × 1,0–1,5 mm; flowers 1 (–3), calyx 21–23 mm long and 2,5–3,0 mm wide, calyx teeth 4,5–5,0 mm, lanceolate, apiculate, epicalyx scales up to 1/3 of calyx, petal limb divided about to middle of narrow lobe.

= *Dianthus serotinus* WALDST. et KIT.

173. *Onosma stellulata* Waldst. et Kit., Icon. Pl. Rar. 2: 189, tab. 173, 1804. — PR 155790/768 a, b.

Material is heterogenous. Plants differ in many features, especially in hairiness of leaves and stems, size of leaves and flowers.

a) Two plants, one of them with two leafy stems (ca. 24 cm) and rhizom and other with simple stem (23 cm). Both with flowers. No label.

b) Two plants with leafy simple stems (15 and 23 cm), rhizoms and flowers. Sternberg standard label with localities (Hungarn, Tauricus, in valle de Soponero unweit Arguo... gesammelt 1804). Small Waldstein label: "*Onosma stellulata* Wald., in Kalkfelsen Croatiens".

Stems and leaves densely hairy; leaves up to 70 mm long and 3–6 mm wide; flowers 16–24 mm long, calyx 10–11 mm long.

All plants probably belong to *Onosma stellulata* group. Further detailed study is necessary.

174. *Thalictrum foetidum* L.

175. *Silene flavescens* Waldst. et Kit., Icon. Pl. Rar. 2: 191, tab. 175, 1804. — PR 155770/10069 a, b.

a) Two leafy branched plants (19 and 32 cm) with flowers and fruits; two parts of stem (22 and 23 cm), one of them with flower. One bag with fragments. Small label written by Waldstein: "*Silene flavescens* Wald., in Kalkfelsen, in Banath".

b) Three upper parts of stems (21, 25 and 31 cm) with fruits and a few leaves. One bag with fragments. Small Waldstein label: "*Silene flavescens* N. Sp., in Banath bey Mehadien auf Kalkfelsen". Sternberg standard label with locality (Hungarn). This specimen selected as lectotype.

Stems glandular above and densely pubescent below; basal leaves spatulate, 4,5–6,0 × 0,6–1,0 cm, hairy, cauline leaves few, linear lanceolate; flowers solitary or paired, long pedicelate (up to 4 cm); calyx hairy, ca. 12 mm long; capsule up to 1 cm long.

= *Silene flavescens* WALDST. et KIT.

176. *Ranunculus nodiflorus* L.

177. *Linum aureum* Waldst. et Kit., Icon. Pl. Rar. 2: 193, tab. 177, 1804. — PR 155798/10060.

Three annual, leafy plants (13, 26 and 29 cm) with flowers and fruits, two of them branched. Small label probably written by Kitaibel: "*Linum aureum* N. Sp.". Further one label written by C. B. Presl with name *Linum aureum* Waldst. et Kit., and note: "Communicavit Comes Waldstein".

Stems glabrous; leaves linear-lanceolate, 10–20 × 1–2 mm, entire; flowers small, sepals ca. 3 mm with glandular ciliate margins; capsule subglobose.

= *Linum gallicum* L.

178. *Centaurea stricta* Waldst. et Kit., Icon. Pl. Rar. 2: 195, tab. 178, 1804. — PR 155755/757 a, b.

a) Two leafy plants (26 and 33 cm), one of them branched. One label written probably by Waldstein: "auf Tockayer Berg war fast ausgeblüht auf Anfang Septembris" and with note (unknown author): "Waldst. herb.". This specimen selected as lectotype.

b) Two leafy plants (29 and 31 cm) with capitula, one of them branched. No label.

Leaves oblong-lanceolate, 60—80 × 10—12 mm, entire or rarely with 1—2 teeth at the base, on both surfaces densely tomentose; capitula 12—15 mm in diameter, solitary, appendages brown, fimbriae twice as long as width of dark brown margin.

According Dostál's rev. label plants belong to *Centaurea triumphetii* ALL. ssp. *stricta* WK. var. *c. perfoliata* DOSTÁL.

179. *Colchicum arenarium* Waldst. et Kit., Icon. Pl. Rar. 2:195, tab. 179, 1804. — The type is not deposited in PR.

180. *Genista procumbens* Waldst. et Kit., Icon. Pl. Rar. 2:197, tab. 180, 1804. — PR 155807/10055.

Two woody, simple, leafy stems (22 and 37 cm). One bag with fragments. Two small Waldstein labels: "Genista procumbens Wald. in Matraer Gebirge; schlechter Exemplar" and "Genista procumbens N. Sp. am Fuss des Gebirges Matra in Hungaria". Sternberg standard label with locality (in Wälder von Hungarn).

= *Corothamnus procumbens* (WALDST. et KIT. ex WILLD.) PRESL

181. *Sedum glaucum* Waldst. et Kit., Icon. Pl. Rar. 2:198, tab. 181, 1804. — PR 376407/3247 a, b.

a) Three leafy, branched plants (6,5—7,5 cm) with flowers and roots. Small Waldstein label: "Sedum arenarium N. Sp.", epithet *arenarium* is crossed out and substituted by specific name "glaucum", further is added „in den Sandhügeln bey Deliblat im Banat". This specimen selected as lectotype.

b) One leafy, branched plant (8,5 cm) with flowers and part of root. Sternberg standard label with locality (Banat).

Stems glandular hairy; leaves preserved only in upper parts of stems, linear, ca. 1 cm long, subacute; flowers numerous in unilateral cymes, with short pedicels; petals lanceolate, acuminate; follicles dispersely hairy to glabrescent.

= *Sedum hispanicum* L.

182. *Bunium alpinum* Waldst. et Kit., Icon. Pl. Rar. 2:199, tab. 182, 1804. — PR 155743/721.

One small branched flowering plant (12 cm incl. of long root) with leaves and umbels, and one leafy branched plant with fruits; globose tuber (1 cm in diameter) in separate bag. Small Waldstein label: "Bunium alpinum Welebach Alpen Segestan".

Leaves 2—3 pinnate with narrow linear lobes (3—5 mm long); rays of umbels 6—7 (10—15 mm long), bracts linear up to 3 mm long, bracteoles like bracts, but smaller; fruits 3 mm long.

= *Bunium alpinum* WALDST. et KIT.

183. *Cytisus elongatus* Waldst. et Kit., Icon. Pl. Rar. 2:200, tab. 183, 1804. — PR 155757/738 a, b.

a) Two leafy, branched stems (21 and 35 cm) with many flowers, one of them with flowers in head, the second branch arching. Sternberg standard label with locality (Hungarn). Čelakovský's label: "Cytisus elongatus W. Kit., ex herb. Comitibus ab Waldstein sine scheda orig.". This specimen selected as lectotype.

b) Two leafy branches (26 and 29 cm) with flowers in leafy racemes. No label. Woody stems densely hairy, later nearly glabrous. The material is not homogenous, there are differences in habit, hairiness, size of leaflets, flowers, etc.

= *Chamaecytisus glaber* (L. fil.) ROTHM.

184. *Cochlearia macrocarpa* Waldst. et Kit., Icon. Pl. Rar. 2:201, tab. 184, 1804. — 155758/752.

One, leafy upper part of stem (36 cm) with branched many flowered inflorescence. One part of basal leaf (16 × 6 cm) and two separate partial inflorescences. Small blue label written probably by Kitaibel: "Cochlearia macrocarpa N. Sp."

Stem and leaves glabrous, upper cauline leaves simple, lanceolate to oblanceolate, more or less 8 cm long and 0,7 cm wide, serrate; young fruits up to 4 mm long.

= *Armoracia macrocarpa* (WALDST. et KIT.) BAUMG.

185. *Arctium carduelis* L.

186. *Allium ochroleucum* Waldst. et Kit., Icon. Pl. Rar. 2:204, tab. 186, 1804. — By mistake one plant of *Allium ochroleucum* is placed under name of *Allium setaceum* Waldst. et Kit. (Tab. 68).

187. *Ranunculus scutatus* Waldst. et Kit., Icon. Pl. Rar. 2:205, tab. 187, 1804. — The type is not deposited in PR.

188. Scabiosa graminifolia L.

189. Scilla pratensis Waldst. et Kit., Icon. Pl. Rar. 2: 207, tab. 189, 1804. — PR 155825/786.

One plant (15 cm) with bulb (2,5 × 2,0 cm) and roots, three leaves and inflorescence. Small Waldstein label: "Scilla pratensis N. Sp. bey Gorenicza".

Leaves linear, 13–15 × ca. 0,4 cm, glabrous; stem 11,5 cm with inflorescence (10 flowered raceme); pedicels 5–8 mm long, bracts minutely ovate, perianth blue 3–4 mm long.

= *Scilla litardierei* BREISTR.

190. Viola ambigua Waldst. et Kit., Icon. Pl. Rar. 2: 208, tab. 190, 1804. — The type is not deposited in PR.

191. Dianthus nitidus Waldst. et Kit., Icon. Pl. Rar. 2: 209, tab. 191, 1804. — The type is not deposited in PR.

192. Laserpitium marginatum Waldst. et Kit., Icon. Pl. Rar. 2: 210, tab. 192, 1804. — The type is not deposited in PR.

193. Hieracium racemosum Waldst. et Kit., Icon. Pl. Rar. 2: 211, tab. 193, 1804. — The type is not deposited in PR.

194. Iberis carnosa Waldst. et Kit., Icon. Pl. Rar. 2: 213, tab. 194, 1804. — The type is not deposited in PR.

195. Centaurea coriacea Waldst. et Kit., Icon. Pl. Rar. 2: 214, tab. 195, 1804. — The type is not deposited in PR.

196. Alyssum utriculatum Waldst. et Kit., Icon. Pl. Rar. 2: 215, tab. 196, 1804. — The type is not deposited in PR.

197. Verbascum rubiginosum Waldst. et Kit., Icon. Pl. Rar. 2: 216, tab. 197, 1804. — PR 155818/785 a, b.

a) One leafy plant (74 cm) without basal rosette and with branched inflorescence without flowers. No label.

b) One upper leafy part of plant with inflorescence; cauline leaves 4,0 × 1,5 cm, dentate, pubescent; corolla 20 mm in diameter, colour is not possible to identify, calyx pubescent. One bag with fragments. Small Waldstein label: "Verbascum ferrugineum (this epithet was crossed out and replaced by epithet rubiginosum N. Sp.), zwischen Pusta Szilly und Akast auf Brachäcker in Pester Comitát". This plant selected as lectotype.

= Probably hybrid between *V. austriacum* SCHOTT ex ROEM. et SCHULT. and *V. phoeniceum* L.

198. Poterium polygamum Waldst. et Kit., Icon. Pl. Rar. 2: 217, tab. 198, 1804. — PR 155782/765.

Two plants differing in habit, size and shape of leaves. Small Waldstein label: "Poterium elatum N. Sp. in Syrmien und Banat". Later was added "Poterium polygamum Waldst. et Kit." probably by C. B. Presl.

One leafy plant (30 cm) with inflorescences. Stem and leaves glabrescent or rarely hairy; basal leaf 15,5 cm long, with 4 pairs of suborbicular leaflets (1,0–1,2 × 1,0–1,1 cm), cauline leaves shorter (5–8 cm) with ovate-elliptical, serrate leaflets (1,1–2,0 × 0,9–1,2 cm); inflorescences in full flower.

The second plant (39 cm), leafy with inflorescences; cauline leaves with relatively deeply serrate leaflets (8–9 × 2–5 mm).

Fruits not developed in both plants and therefore is not possible correct identification.

199. Potentilla patula Waldst. et Kit., Icon. Pl. Rar. 2: 218, tab. 199, 1804. — PR 155781/764.

One lateral flowering stem (15 cm) with cauline leaves and one basal leaf and separate one very small part of young inflorescence (4 cm). One separate digitate leaf with long petiole belonging to another species. Small blue label probably written by Kitaibel: "Potentilla patula N. Sp.", by unknown author added "Gf. Waldst."

Stem with long subappressed and short hairs; leaves digitate, deeply dentate, long hairy and shortly glandular pubescent, especially on veins and on pedicels as well; sepals triangular-ovate (6 × 5 mm), epicalyx segments more or less equalling sepals, narrowly linear; petals 5,0–5,5 × 4,0–4,5 mm long.

= *Potentilla patula* WALDST. et KIT.

200. *Hesperis runcinata* Waldst. et Kit., Icon. Pl. Rar. 2: 220, tab. 200, 1804. — PR 190590/798.

One flowering part of stem (36 cm) with small cauline leaves. Small blue label probably written by Kitaibel: "*Hesperis runcinata* N. Sp."

Stem, leaves, pedicels with short and glandular hairs; upper cauline leaves sessile, semi-amplexicaul, serrate below, 2,5 × 0,5 cm; sepals glabrous up to 7 mm long, petals pinkish, more than twice as long as sepals.

= A species of *Hesperis sylvestris* CRANTZ complex

201. *Asparagus sylvaticus* Waldst. et Kit., Icon. Pl. Rar. 3: 223, tab. 201, 1805. — PR 155742/713.

One upper part of branched stem (ca. 40 cm) with many cladodes. One lateral branch with one berry. One bag with fragments of cladodes and one flower. Small Waldstein label: "*Asparagus macrocarpus* N. Sp., in Banath auf den Felsen, Gebirge Piatra Küpre-dului oder Räuber Höle", further added "*A. sylvestris* WK. io"

Stem glabrous; cladodes 8—12 in whorl, linear, 15—20 mm long; flowers 8 mm and berry ca. 12 mm long with 16 mm long pedicel.

= *Asparagus tenuifolius* LAM.

202. *Galium infestum* Waldst. et Kit., Icon. Pl. Rar. 3: 224, tab. 202, 1805. — The type is not deposited in PR.

203. *Plantago hungarica* Waldst. et Kit., Icon. Pl. Rar. 3: 225, tab. 203, 1805. — The type is not deposited in PR.

204. *Scabiosa agrestis* Waldst. et Kit., Icon. Pl. Rar. 3: 226, tab. 204, 1805. — PR 155774/758 a, b, c.

a) Two branched leafy upper parts of stems (27 and 34 cm) with mostly young inflorescences. One bag with fragments. Small Waldstein label is illegible.

b) Four upper flowering parts of stems (27, 34, 36 and 40 cm), three of them branched and with cauline upper leaves. No label.

c) One upper, rich branched, leafy stem (39 cm) with inflorescences (buds, flowers and fruits are developed). No label.

Stems and leaves dispersely hairy; leaves deeply pinnatisect, hispid, especially on margin; capitula up to 3 cm in diameter, involucre bracts as long as florets (ca. 12 mm) or shorter, calyx setae undeveloped (sheet a), 4—5 mm long (sheet c) or absent (sheet b).

= (sheet a) There are plants without fruits and therefore is not possible identify them. (sheet b). One plant (36 cm) selected as lectotype of *S. agrestis* Waldst. et Kit. This species is identical with *S. triandra* L. (sheet c) On the sheet there are intermediate plants probably between *S. triandra* L., and *S. columbaria* L.

205. *Melissa alba* Waldst. et Kit., Icon. Pl. Rar. 3: 227, tab. 205, 1805. — PR 155794/10063.

Four leafy, branched stems (18—27 cm) with flowers. Two small Waldstein labels: "*Melissa alba* N. Sp." and "*Melissa alba* Waldstein, Croatischen Kalkfelsen bis in der Alpen". Sternberg standard label with locality (Hungary).

Stems puberulent; leaves elliptical to ovate; verticillasters with ca. 10 flowers, flowers shortly pedunculate; calyx 2—3 mm long, puberulent, corolla 5—6 mm long.

= *Micromeria thymifolia* (SCOP.) FRITSCH in A. KERNER

206. *Gentiana utriculosa* L.

207. *Gentiana pyrenaica* L.

208. *Solidago alpestris* Waldst. et Kit., Icon. Pl. Rar. 3: 230, tab. 208, 1805. — PR 254044/10207 a, b.

a) Three leafy plants (24, 29 and 34 cm) with inflorescences (particularly damaged). Small label written by Kitaibel: "*Solidago alpestris mihi*". This specimen selected as lectotype.

b) Two plants (37 and 39 cm) with a few leaves and inflorescences. One bag with fragments. No label.

Stems glabrous or sparsely pubescent; cauline leaves 5,0—7,7 × 1,0—1,7 cm, elliptical to lanceolate, irregularly serrate, glabrous above, pubescent beneath; inflorescences not very dense, more or less damaged.

= The specimens seem to belong to *S. virga-aurea* L. subsp. *virga-aurea* more than to subsp. *minuta* (L.) ARCANG. (= subsp. *alpestris* (WALDST. et KIT.) HAYEK.

209. Hieracium flexuosum Waldst. et Kit., Icon. Pl. Rar. 3: 231, tab. 209, 1805. — The type is not deposited in PR.

210. Senecio umbrosus Waldst. et Kit., Icon. Pl. Rar. 3: 232, tab. 210, 1805. — The type is not deposited in PR.

211. Pastinaca opopanax Waldst. et Kit., Icon. Pl. Rar. 3: 233, tab. 211, 1805. — The type is not deposited in PR.

212. Silene pusilla Waldst. et Kit., Icon. Pl. Rar. 3: 235, tab. 212, 1805. — The type is not deposited in PR.

213. Silene infracta Waldst. et Kit., Icon. Pl. Rar. 3: 237, tab. 213, 1806. — The type is not deposited in PR.

214. Scrophularia glandulosa Waldst. et Kit., Icon. Pl. Rar. 3: 238, tab. 214, 1806. — The type is not deposited in PR.

215. Eryngium amethystinum L.

216. Hieracium ramosum Waldst. et Kit., Icon. Pl. Rar. 3: 240, tab. 216, 1806. — The type is not deposited in PR.

217. Hieracium pallescens Waldst. et Kit., Icon. Pl. Rar. 3: 241, tab. 217, 1806. — The type is not deposited in PR.

218. Hieracium croaticum Waldst. et Kit., Icon. Pl. Rar. 3: 242, tab. 218, 1806. — The type is not deposited in PR.

219. Centaurea mollis Waldst. et Kit., Icon. Pl. Rar. 3: 243, tab. 219, 1806. — The type is not deposited in PR.

220. Crepis agrestis Waldst. et Kit., Icon. Pl. Rar. 3: 244, tab. 220, 1806. — The type is not deposited in PR.

221. Atriplex oblongifolia Waldst. et Kit., Icon. Pl. Rar. 3: 245, tab. 221, 1807. — PR 502358/707 (hic erronee "microsperma" scripta).

One branched stem (38 cm) with inflorescence. Small label probably written by Kitaibel: "Atriplex oblongifolia N. Sp." and added in unknown handwriting "Gf. Waldstein".

Leaves lanceolate, 6 × 1 cm; cymes in long interrupted, spicate inflorescence; bracteoles triangular-ovate, entire, farinose.

= *Atriplex oblongifolia* WALDST. et KIT.

222. Dianthus petraeus Waldst. et Kit., Icon. Pl. Rar. 3: 246, tab. 222, 1807. — PR 155762/751.

Five leafy simple stems (17–19 cm), each with one flower. Small Waldstein label: "Dianthus? Mehadien", later by him added "Petraeus". Rev. label by F. A. Novák: "D. Kitaibelii ssp. eupetraeus Nk. 12. 12. 1920".

Basal leaves linear-acuminate with conspicuous marginal veins, cauline leaves smaller, 4–5 pairs on one stem; calyx 21–22 mm long and 3–4 mm wide, epicalyx scales elliptical to ovate, acuminate, more or less 1/4–1/3 as long as calyx; petal limbs bad preserved.

= *Dianthus petraeus* WALDST. et KIT.

223. Viola declinata Waldst. et Kit., Icon. Pl. Rar. 3: 248, tab. 223, 1807. — The type is not deposited in PR.

224. Scandix fumarioides Waldst. et Kit., Icon. Pl. Rar. 3: 249, tab. 224, 1807. — PR 155823/10052.

Two, leafy, branched plants (26 cm) with umbels, one separate leaf and two umbels. One bag with fragments. Small Waldstein label: "Scandix fumarioides N. Sp., Mali Uraly sub alpinis".

Stems and leaves pubescent; leaves 2–3 pinnate, with lobes cuneate at the base; inflorescences with 9–11 rays, bracts 0–1, bracteoles 5, raylets 5–10; fruits linear, 5–6 mm long, yellowish-brown, hispidulous with beak up to 1 mm long.

= *Anthriscus fumarioides* (WALDST. et KIT.) SPRENGEL

225. Cerastium ciliatum Waldst. et Kit., Icon. Pl. Rar. 3: 250, tab. 225, 1807. — PR 502340/744.

One flowering, leafy stem (21 cm). Small Waldstein label: "Cerastium ciliatum N. Sp. Waldstein. E valle subalpina Velebich Croatiae" and with pencil added "Waldst. handschrift". Sternberg standard label with locality (Hungary).

Stem pubescent, especially in upper part; cauline leaves 11—20 × 1—2 mm, linear, glabrous, ciliate in margin; bracts pubescent, with scarious margin, 6 mm long; calyx 4—7 mm long, scarious, pubescent, petals ca. 9 mm long.

= *Cerastium ciliatum* WALDST. et KIT.

226. *Iris hungarica* Waldst. et Kit., Icon. Pl. Rar. 3: 251, tab. 226, 1807. — PR 155801/774. Plate 15.

Two flowering, leafy stems (19 and 29 cm), one of them branched. Small Waldstein label: "Iris hungarica N. Sp. in Hungarien".

Leaves up to 16 cm long and 15 mm wide; spathes 4—5 cm long, ovate to oblong, herbaceous; flowers violet, up to 6 cm long.

= *Iris aphylla* L. subsp. *hungarica* (WALDST. et KIT.) ASCH. et GR.

227. *Spiraea cana* Waldst. et Kit., Icon. Pl. Rar. 3: 252, tab. 227, 1807. — PR 29124/801.

Three densely branched leafy twigs (10, 13 and 16 cm) and two fragments (one of them with flowers). Small Waldstein label: "Spiraea incana Wald., in Kalkfelsen Croatiens, in Corbavien", and small blue label probably written by Kitaibel: "Spiraea cana N. Sp.". Further one label written by C. B. Presl with name, localities (in rupibus calcareis Croatiae et Corbavia) and note (Ex herbario comitis Waldstein).

Stems terete, hairy; leaves short petiolate, elliptical, 13—18 × 6—8 mm, appressed hairy above and tomentose beneath, entire; inflorescence ca. 12 mm in diameter; flowers small, petals ca. 1,5 mm long, orbicular.

= *Spiraea cana* WALDST. et KIT.

228. *Biscutella alpestris* Waldst. et Kit., Icon. Pl. Rar. 3: 253, tab. 228, 1807. — PR 155744/720 a. Plate 16.

One plant with rosette of leaves and two simple stems (29 and 32 cm) with a few leaves, flowers and fruits. Small Waldstein label: "Biscutella alpina N. Sp. in Kalkfelsen des Plisziwiza in Croatiens", further added (unknown handwriting) "Coll. Waldstein", and "B. alpestris WK. io".

Leaves of the rosette oblanceolate, 8—11 × 1,1—1,8 cm, more or less dentate; stems below hispidulous, lower cauline leaves 4,0 × 0,8 cm, hispidulous, middle cauline leaves very small up to 12 × 1,5 mm; flowers in laxe inflorescence, petals ca. 5 mm long; half of fruits 6 × 5 mm with style 6 mm long (not full developed), glabrous.

= *Biscutella alpestris* WALDST. et KIT.

229. *Lotus gracilis* Waldst. et Kit., Icon. Pl. Rar. 3: 254, tab. 229, 1807. — PR 155797/1006L.

Four plants; two leafy plants with buds (20 and 28 cm), one branched, flowering plant (11 cm) and one leafy plant (26 cm) with fruits and flowers. Small Waldstein label: "Lotus gracilis N. Sp., in Bihaver Comitatus", and Sternberg standard label with locality (Hungarn).

Leaflets oblong-lanceolate or obovate-oblong, 8—13 × 3—5 mm, long hairy; heads 1—2 flowered, peduncles 8—10 mm long; corolla ca. 7 mm long, calyx teeth longer than tube; legume 17—22 × ca. 1,5 mm.

= *Lotus angustissimus* L.

230. *Scabiosa laevigata* Waldst. et Kit., Icon. Pl. Rar. 3: 255, tab. 230, 1807. — PR 155773/10383 a, b.

a) Two flowering stems (27 and 31 cm) with a few leaves, one separate fragment of leaf. No label.

b) One part of leafy stem (25 cm) with one capitulum and one separate leaf. Sternberg standard label with locality (Hungarn). This plant selected as lectotype.

Stem glabrous; cauline leaves deeply pinnatisect, 10—11 × 4,5—6 cm, with entire lobes, minutely puberulent; inflorescences 2,0—2,6 cm in diameter, receptacular scales acuminate; corolla yellow.

= *Cephalaria laevigata* (WALDST. et KIT.) SCHRAD.

231. *Cheiranthus cuspidatus* Waldst. et Kit., Icon. Pl. Rar. 3: 256, tab. 231, 1808. — The type is not deposited in PR.

232. *Carduus collinus* Waldst. et Kit., Icon. Pl. Rar. 3: 257, tab. 232, 1808. — The type is not deposited in PR.

233. *Carduus hamulosus* Ehrh.

234. *Cheiranthus juncus* Waldst. et Kit., Icon. Pl. Rar. 3: 259, tab. 234, 1808. — PR 155759/753.

One leafy, simple plant (68 cm) with branched inflorescence.

Waldstein label with limited description. Original name *Cheiranthus junceus* N. Sp. was crossed out and replaced with name *Erysimum junceum*.

Stem glabrescent to sparsely hispid; cauline leaves pinnatisect, 12–30 mm long, with linear lobes (ca. 1 mm wide), glabrous, uppermost leaves linear, entire; flowers small, petals 3–4 mm long; siliqua many, 14–18 × ca. 1 mm, glabrous, styles ca. 0.7 mm long.

= *Sisymbrium polymorphum* (MURRAY) ROTH

235. *Spiraea oblongifolia* Waldst. et Kit., Icon. Pl. Rar. 3: 261, tab. 235, 1808. — The type is not deposited in PR.

236. *Chrysanthemum rotundifolium* Waldst. et Kit., Icon. Pl. Rar. 3: 262, tab. 236, 1808. — PR 155756/737.

Two simple, leafy stems (31 and 31 cm), each stem with one damaged capitulum. Small Waldstein label: “*Chrysanthemum rotundifolium* N. Sp., Carpatischen Alpen”.

Cauline leaves ovate-oblong, 2.2–4.2 × 0.8–1.2 cm, shortly petiolate, glabrous or dispersely hairy, crenate-dentate; involucre bracts with brownish margins.

= *Leucanthemum waldsteinii* (SCHULTZ BIP.) POUZAR

237. *Trifolium expansum* Waldst. et Kit., Icon. Pl. Rar. 3: 263, tab. 237, 1808. — PR 495673/10079.

Two leafy stems (35 and 36 cm) with young inflorescences. Small Kitaibel label: “*Trifolium expansum* mihi”, and small Waldstein label: “*Trifolium striatum* N. Sp. in Pacrova in feuchten Sand”.

Stems glabrescent, leaflets ovate or oblong-lanceolate, 23–30 × 8–14 mm, glabrescent above and hairy beneath; stipules triangular, above abruptly contracted into ciliate point; heads globose, very young, usually appressed hairy; calyx teeth ca. 7 mm long, ciliate.

= *Trifolium pratense* L. s. l.

238. *Cytisus falcatus* Waldst. et Kit., Icon. Pl. Rar. 3: 264, tab. 238, 1808. — The type is not deposited in PR.

239. *Cineraria rivularis* Waldst. et Kit., Icon. Pl. Rar. 3: 265, tab. 239, 1808. — The type is not deposited in PR.

240. *Aristolochia pallida* Willd.

241. *Allium fuscum* Waldst. et Kit., Icon. Pl. Rar. 3: 267, tab. 241, 1808. — The type is not deposited in PR.

242. *Vicia oroboides* Wulf.

243. *Orobus laevigatus* Waldst. et Kit., Icon. Pl. Rar. 3: 270, tab. 243, 1808. — The type is not deposited in PR.

244. *Veronica incana* L.

245. *Veronica depauperata* Waldst. et Kit., Icon. Pl. Rar. 3: 272, tab. 245, 1808. — The type is not deposited in PR.

246. *Delphinium alpinum* Waldst. et Kit., Icon. Pl. Rar. 3: 273, tab. 246, 1808. — The type is not deposited in PR.

247. *Campanula lilifolia* Waldst. et Kit., Icon. Pl. Rar. 3: 274, tab. 247, 1808. — The type is not deposited in PR.

248. *Cucubalus mollissimus* Waldst. et Kit., Icon. Pl. Rar. 3: 276, tab. 248, 1809. — PR 155766/3249.

Uppermost part of stem (30 cm) with branched inflorescence. Waldstein label: “Unter dem Nahmen *C. mollissimus* habe ich diese Pflanze herausgegeben, obwohl ich immer zweifelte dass es *mollissimus*, seg. Willdenow in *Enumeratio pl. hort. Berol.* nennt ihn *pilosus*, sind... gelangt es mir den wahren *mollissimus* zu erhalten.. welcher einer ganz verschiedener Arth ist”.

Leaves lanceolate, 3.5–4.5 × 0.8 mm, hairy; inflorescence lax; flowers with long peduncles, calyx 18–19 mm long, pubescent, young capsula 10–11 mm long.

= *Silene viridiflora* L.

249. *Silene nemoralis* Waldst. et Kit., Icon. Pl. Rar. 3: 277, tab. 249, 1809. — The type is not deposited in PR.

250. *Atriplex microsperma* Waldst. et Kit., Icon. Pl. Rar. 3: 278, tab. 250, 1809. — PR 155741/708.

One leafy upper part of stem (35 cm) with inflorescence. Small Waldstein label: "Atriplex microsperma N. Sp., Ungarn in fruchten Gründen", and type-written label: "Atriplex microsperma N. Sp. Waldst. et Kit." written by O. Almborn 1977.

Leaves long sagittate-hastate, 5,5 × 3,5 cm; bracteoles triangular, entire to dentate, tuberculate on the back.

= *Atriplex hastata* L. s. l.

251. Peucedanum longifolium Waldst. et Kit., Icon. Pl. Rar. 3: 279, tab. 251, 1809. — The type is not deposited in PR.

252. Trifolium parviflorum Ehrh.

253. Laserpitium alpinum Waldst. et Kit., Icon. Pl. Rar. 3: 281, tab. 253, 1809. — The type is not deposited in PR.

254. Vicia polyphylla Waldst. et Kit., Icon. Pl. Rar. 3: 282, tab. 254, 1809. — The type is not deposited in PR.

255. Rhamnus tinctorius Waldst. et Kit., Icon. Pl. Rar. 3: 283, tab. 255, 1809. — The type is not deposited in PR.

256. Mespilus coccinea Waldst. et Kit., Icon. Pl. Rar. 3: 284, tab. 256, 1809. — The type is not deposited in PR.

257. Buplerum baldense Host

258. Campanula spathulata Waldst. et Kit., Icon. Pl. Rar. 3: 286, tab. 258, 1809. — The type is not deposited in PR.

259. Chironia uliginosa Waldst. et Kit., Icon. Pl. Rar. 3: 287, tab. 259, 1809. — PR 376397/3237.

Two whole leafy plants (20 cm) with a few simple stems and inflorescences. Three simple, leafy stems (17–19 cm) with inflorescences. Sternberg standard label without locality.

Stems and leaves scabrid; cauline leaves linear-oblong, 10–17 × 1–1,3 mm, obtuse; flowers sessile in more or less dense cymes; corolla lobes 5–6 mm long, shorter than tube.

= *Centaureum uliginosum* (WALDST. et KIT.) BECK ex RONNIGER

260. Cytisus alpinus Mill.

261. Convolvulus sylvaticus Kit.

262. Melissa subnuda Waldst. et Kit., Icon. Pl. Rar. 3: 291, tab. 262, 1810. — PR 155793/10064,

Three leafy stems (29, 31 and 37 cm), one of them branched, all with inflorescences. Small Waldstein label: "Melissa subnuda Wald. In Banath", and Sternberg standard label with locality (Banath).

Stems pubescent; leaves broadly obtuse to obtuse, 18–25 × 12–17 mm, crenato-serrate, with up to 7 teeth of each side; calyx ca. 5 mm long and up to 1,5 mm wide, with acuminate teeth.

= *Satureja subnuda* (WALDST. et KIT.) DÖRFLER

263. Campanula multiflora Waldst. et Kit., Icon. Pl. Rar. 3: 292, tab. 263, 1810. — The type is not deposited in PR.

264. Rosa reversa Waldst. et Kit., Icon. Pl. Rar. 3: 293, tab. 264, 1810. — The type is not deposited in PR nor in BP.

265. Hypericum alpinum Waldst. et Kit., Icon. Pl. Rar. 3: 294, tab. 265, 1810. — The type is not deposited in PR.

266. Trifolium palustre Waldst. et Kit., Icon. Pl. Rar. 3: 295, tab. 266, 1810. — The type is not deposited in PR.

267. Carduus alpestris Waldst. et Kit., Icon. Pl. Rar. 3: 296, tab. 267, 1810. — PR 155746/730.

One upper part of leafy branch (34 cm) with one flowering capitulum and one very young capitulum. One bag with fragments. Small Waldstein label: "Carduus alpestris N. Sp. Croatischen Alpen Waldstein".

Stem arachnoid; leaves glabrous with lobes, each with an apical spine up to 3 mm; capitulum 4 cm in diameter, subglobose, peduncles arachnoid hairy, up to 11 cm long;

HERBARIUM MUSEI NATIONALIS PRAGAE

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Herb. n. n. Waldst.

Neg. 940

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Tabula secunda.

Achillea lingulata

Radix perennis, nigropurpurea, more congenerum horizon-
taliter repens, hinc inde caules et fasciculos foliorum
rudimenta caulibus magis aggregatis demittens.

Caulis erecti, sergii - aut bipedales, calicium crassitie
prope aequantes, simpliciter, angulati, pilosi.

Folia integra, inaequaliter serrata, hirsuta; radicalia
et caulina inferiora basi angustata integerrima, versus
apicem dilatatum crenata aut serrata; reliqua per
totam longitudinem utrinque serrata; horum inferiora
aequalia prope latitudinis, apice pariter rotundata, hinc
hinc linguae formia, superiora versus apicem obtusum
paulo angustiora, summa acutiuscula, forsa basi
utrinque dente majore instructa, adeoque subhastata.

Dentes serraturae foliorum integerrimi. Petioles nulli,
sed folia radicalia versus basin magis angustata quam
reliqua, tamen utrinque ad basin usque decurrentia.

Flores magni in corymbum fastigiatum, ampliusculum,
saepe duos pollices diametro aequantem, dispositi: ramis
pedunculis que angulatis hirsutis; bracteis basi linearibus
hirsutis, integerrimis. Calyces ovati hirsuti; sepalis ovatis,

TYPUS

Number	15572
Year	10382



Tab. 7.

Symphytum cordatum. — L. sp.
S. fol. cordati, acuminati, integerrimis, basi aequalibus, petiolatis.
 Willd. — *act. for. bot. tom. 2, p. 170.*
Raris, geminis, mox Symphyto loco repens, sui coloris,
in foliis bina aut ternata, quorum medio anno proximis
caulis prodestibus est, prophanis, calicem corollae profunde,
pubescentis, lobis nigro foveis, inter alba
caulis foliatis, simplicibus, erectis, fere pedalis, subangulatis,
hispidis.
Folia integerrima, acuminata, venosa, attingens foliis
triumbus hispida, radialis longissima petiolatis, petiolis foli-
ferantibus canaliculatis hispidis, late cordata, basi profunde
aperta, et intra espersionem parumque in petiolum profunde
lobis rotundatis, varis aequum, lobis acuminatis, fimbri-
angustatis; calicis superiora duo opposita, bracteae pallidae,
petiolis canaliculatis, amplexantibus hispidis, alterum cordatum
alterum saepe acutum in petiolum alternatum; foveis
pubulis ovato-lanceolatae alternae, varis opposita.
Flora in varis brevibus, bifidis, fereis, varis.
Staminalibus brevibus hispidis. Calyx profunde quinque-
partitus, foliis brevibus hispidis, erectis, parvis.
Corolla tubulosa, parum ventricosa, lobis alba,
pubescentis, laciniis obtusis, recurvis; lobis foveis
pubulatis colore corollae.
Filamenta alba. Anthares pallide lutes.
Gemmae ovatae, apice aut emarginatae. Stylus
filiformis corolla multo longior.

TYPUS

2. *Symphytum cordatum* Waldst. et Kit. ex Willd.

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Tab. 9.

Vinca herbacea K. Sp.

V. caulis herbaceus prostratus, foliis oblongo lanceolatis, dentatis, caps. baccatis.

Radix perennis, fibrosa, tuberosa quae tandem pro parte pro caulis partem anni sp. parte adior, pallide fusa, flexuosa, fragili, lateraliter et basi ramosa, filiformis, flexuosa, pallide, sicut in fibris et an. ramosa existens.

Caules herbacei prostrati, in sole arvensi prostrati, linea parte ad 14-2 pedes protendendi, nec nisi in grammis a velle directione deflectendi atque apice curvati. Non floriferi et videntur, (nec ut in V. majore et blanda floriferi, erecti, non floriferi, prostrati, simplicissimi, rari ramosi, rami oppositi, alibi breviter, calvi, laevi, nitidi, et vultu atomis qui hinc sub apicem dispersi, rari rari prostrati, subquadrate, angulati a petiolorum margine utriusque decurrentibus, lateribus duobus majoribus convexis, minoribus subcanaliculatis.

Folia subsessile, opposita, obtusa, supra obscure viridia, nitida, subtus pallida, utriusque nervi, marginibus, tamen subaristatis, setulis brevissimis rigida, infra nervum non subaristatis, prostrata ovata oblongo ovata, tandem lanceolata, omnia hyeme amovenda.

Flora quatuor quingua ex eodem caule, fortissimi pedunculati, erecti, axillares, raro oppositi, foliis oppositis, hinc aut superantibus, tentibus aut subsimplicibus, post florescentiam retrocedentibus.

Vinca herbacea K. Sp. semiplat. var. haysi. Walst. Kitell.
Decr. 1. Tab. 9.

V. caulis herbaceus prostratus, foliis oblongo lanceolatis, dentatis, caps. baccatis.

Radix perennis, fibrosa, pallide fusa, fragili, f. ramosa.

Caules herbacei prostrati, in sole arvensi prostrati, linea parte ad 14-2 pedes protendendi, nec nisi in grammis a velle directione deflectendi, atque apice curvati, non floriferi et videntur, (nec ut in V. majore et blanda floriferi, erecti, non floriferi, prostrati, simplicissimi, rari ramosi, rami oppositi, alibi breviter, calvi, laevi, nitidi, et vultu atomis qui hinc sub apicem dispersi, rari rari prostrati, subquadrate, angulati a petiolorum margine utriusque decurrentibus, lateribus duobus majoribus convexis, minoribus subcanaliculatis.

Folia subsessile, opposita, obtusa, nitida, subtus pallida, utriusque nervi, marginibus, tamen subaristatis, setulis brevissimis rigida, infra nervum non subaristatis, prostrata ovata oblongo ovata, tandem lanceolata, omnia hyeme amovenda.



TYPUS

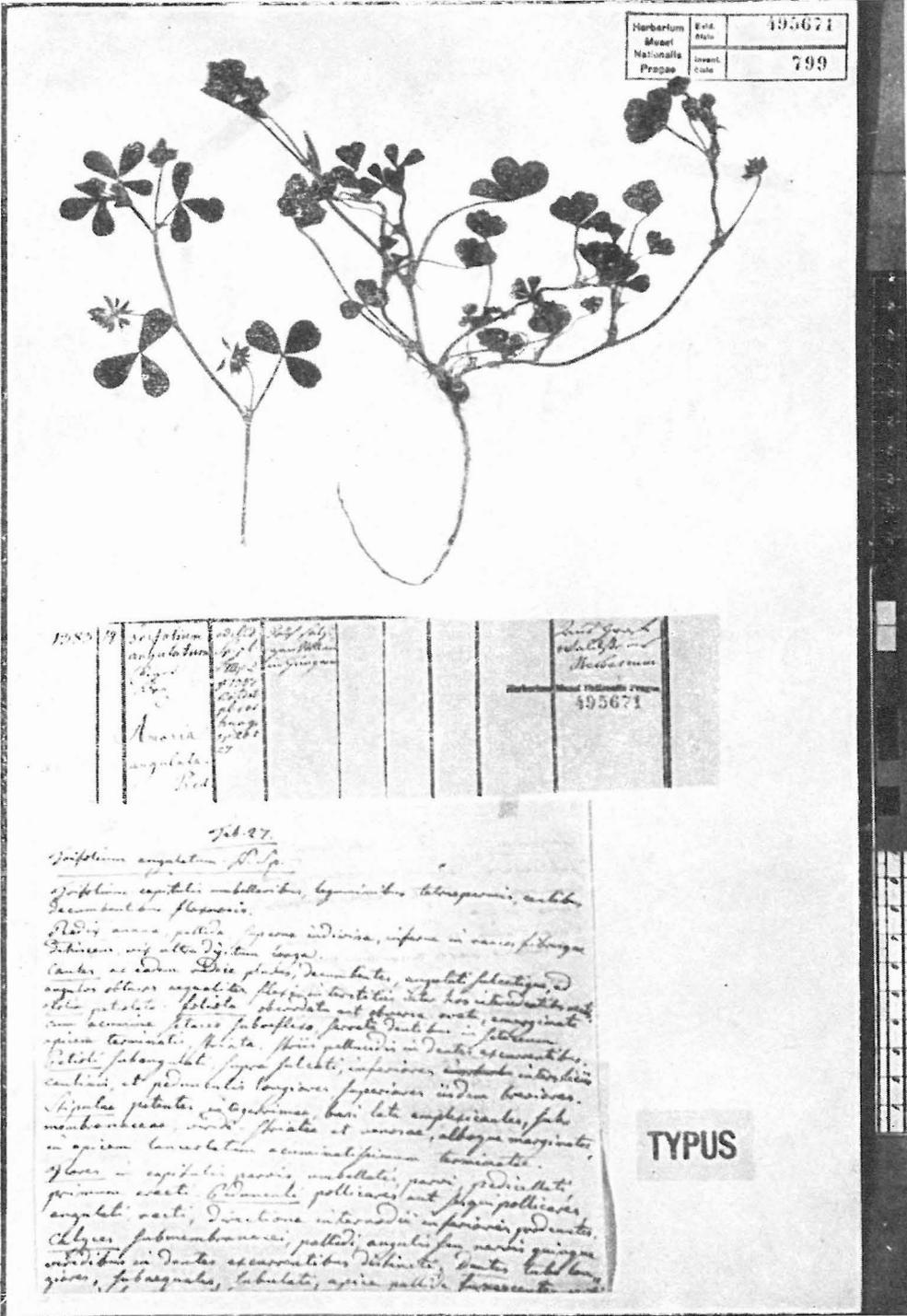
Herbarium Museum Nationalis Pragae	Fl. Catal. Invent. date	155780 763
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TYPUS

Ranunculus crenatus
Waldst. et Kit. Bot. Gall. p. 11
Ranunc. hungar.
a. f. p. Ranunc. aeg. —
f. f. —
R. foliis cordatis subrotundis;
integris, petalis apice crenatis.

Tab. 10.
Ranunculus crenatus — L. Sp.
R. foliis cordatis subrotundis, integris, crenatis, caule unifloro,
calyce erecto, petalis apice crenatis.
Radix perennis, comitans fibris radicis albidis, e f. sa. caulis
basi emergentibus.
Caulis foliiferus, erectus pollicaris aut fere pollicaris,
in pollicis raro aequans, an. florum glaber, teres cum linea
asperata utrinque, nudo aut duobus foliis linearibus basi
attingere apparet in le. ampliuscibus instans.
Folia radiata petiolata, subrotunda cordata, etc. marginis,
excepta basi crenatis. Petiol. ovatis, seu ovata crenatis:
in nervorum angulis cartilagineis albis lobulosis apicibus
civelle nigrae fere terminatis. Petiol. basi dehiscenti, albi.
Calyx petalis contiguus, nec reflexus. foliis ovatis et
longis, obtusis, sublongioribus crenatis, petalis ovatis et
Petala obovata, obtusa, apice crenata, alba, unguibus
brevibus, poro melliferis, nec speciosa, instans.
Stamina erigita virgata, gemina in aggregato breviora
filamentis albis: antheris flavis, ovibus ferecurvis.
Ovarium a capitulum subrotundum hollatum, conglobatum,
ovata, stylis filigintibus recurvato haerente.
Crenat. crenata ferecurvis, nuda, in vallibus fere Monocrophi-
sis, Patonae ditius, Des copidius, et plura modum omne
cotyled. Floret subrotundum angustis.
1. Petalum
2. Petalum calycis lateris, quale nonnunquam dicitur aut.
3. Petalum calycis postica crenata
4. Petalum ovatis.



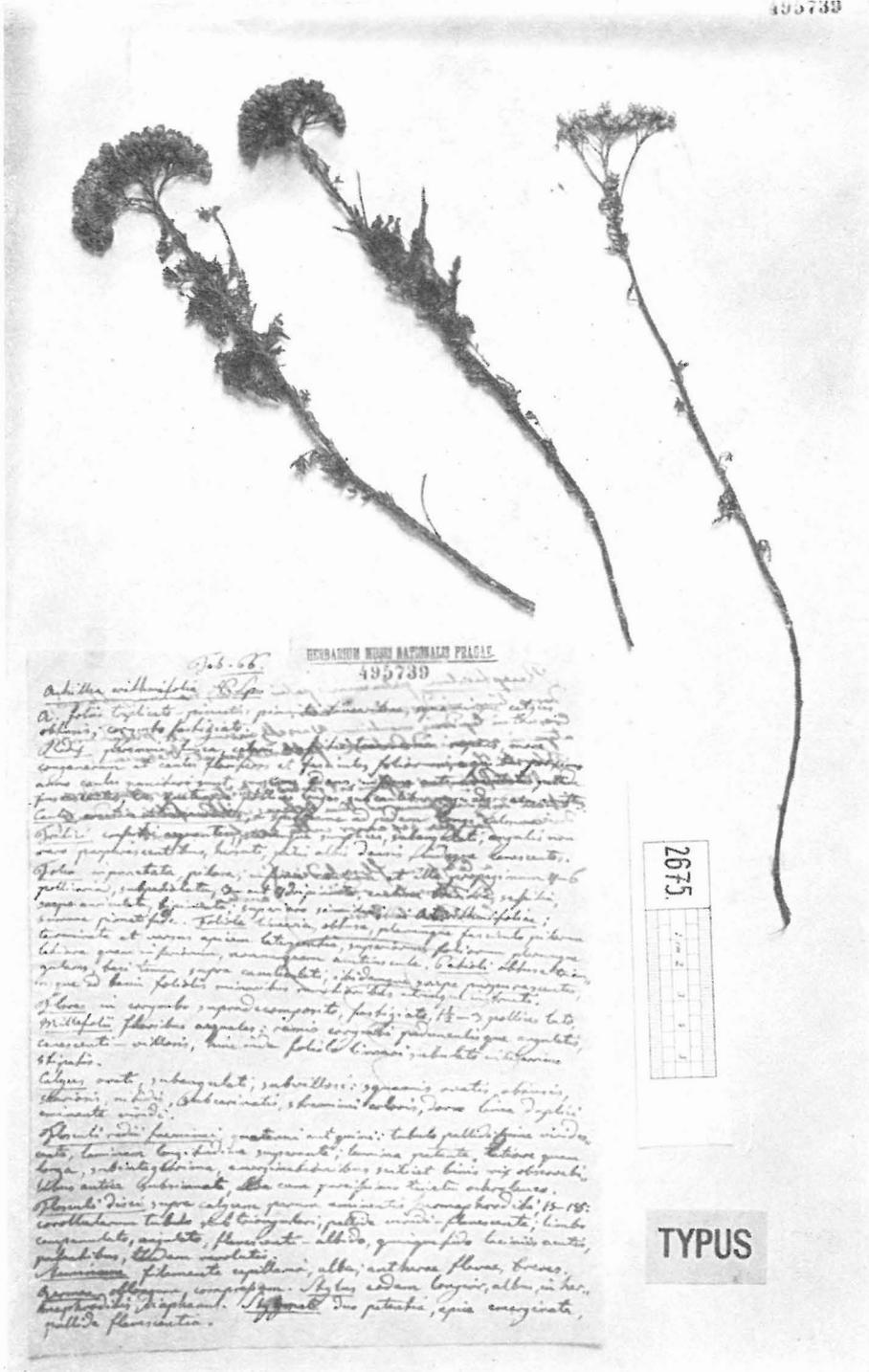
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195671	Trifolium angulatum Waldst. et Kit.	1822 1823 1824 1825 1826 1827	1827 1828 1829 1830 1831 1832	1833 1834 1835 1836 1837 1838	1839 1840 1841 1842 1843 1844	1845 1846 1847 1848 1849 1850	1851 1852 1853 1854 1855 1856	1857 1858 1859 1860 1861 1862	1863 1864 1865 1866 1867 1868	1869 1870 1871 1872 1873 1874	1875 1876 1877 1878 1879 1880	1881 1882 1883 1884 1885 1886	1887 1888 1889 1890 1891 1892	1893 1894 1895 1896 1897 1898	1899 1900 1901 1902 1903 1904	1905 1906 1907 1908 1909 1910	1911 1912 1913 1914 1915 1916	1917 1918 1919 1920 1921 1922	1923 1924 1925 1926 1927 1928	1929 1930 1931 1932 1933 1934	1935 1936 1937 1938 1939 1940	1941 1942 1943 1944 1945 1946	1947 1948 1949 1950 1951 1952	1953 1954 1955 1956 1957 1958	1959 1960 1961 1962 1963 1964	1965 1966 1967 1968 1969 1970	1971 1972 1973 1974 1975 1976	1977 1978 1979 1980 1981 1982	1983 1984 1985 1986 1987 1988	1989 1990 1991 1992 1993 1994	1995 1996 1997 1998 1999 2000
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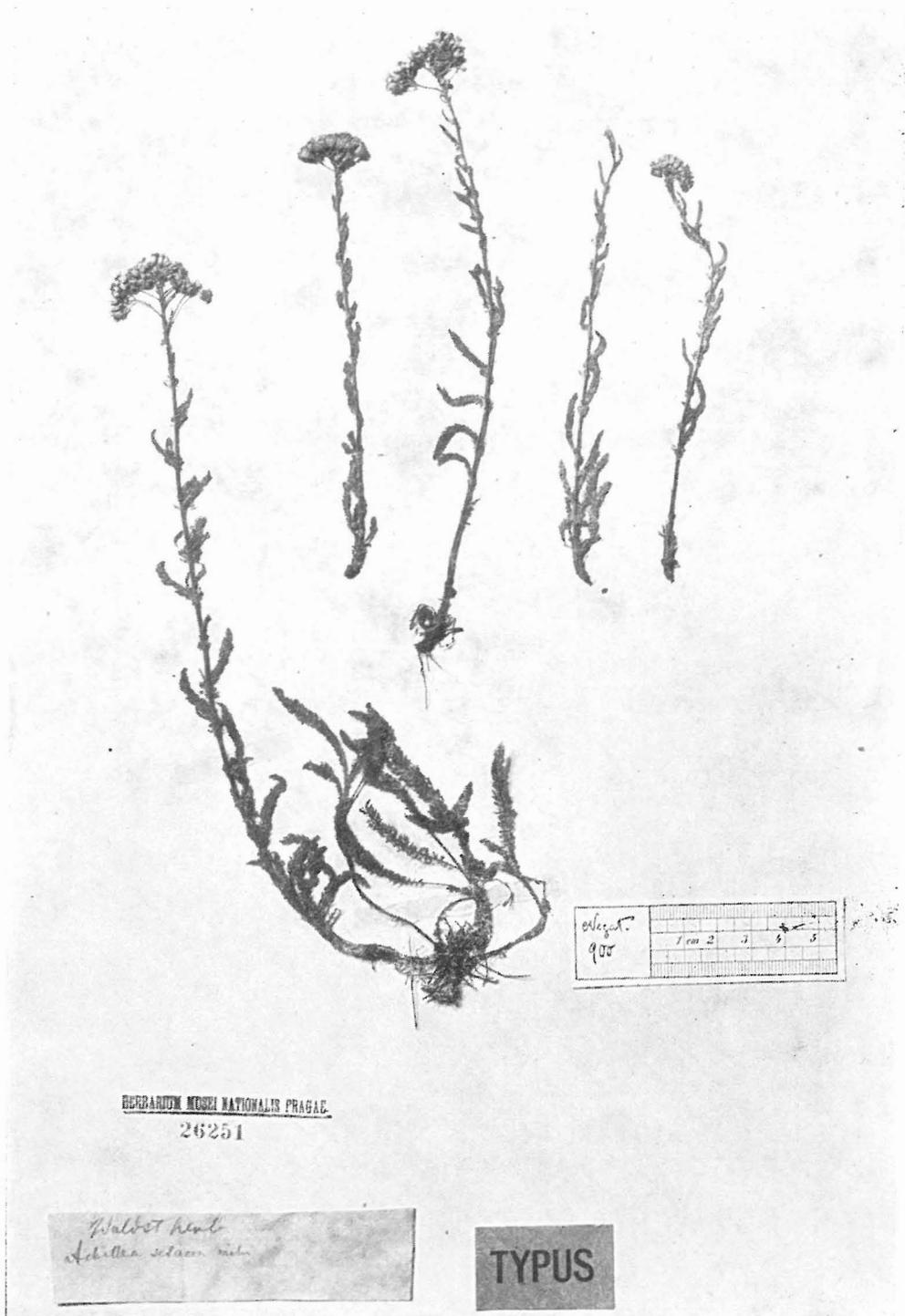
Jul. 27.
Trifolium angulatum Waldst. et Kit.
 Trifolium capituli umbellatis, leguminibus tetraperviis, caulis
 decumbentibus prostratis.
 Radix annua, pallida, repens, indivisa, infera in caulis, fibrosa
 tuberosa, usque ad digitum longa.
 Caulis, et eadem. Liliis pubes, decumbens, angulatis, foliis trifloris,
 angulis obtusis, angulatis, flores in verticillis, liliis interstitiis, et
 liliis petiolatis. Petiolis, subrotatis, aut glabris, aut, emarginatis,
 cum brevibus, flos pubescentibus, prostratis, liliis in
 apice terminatis, pinnatis. Pinnis, pinnatis, in dentibus, et
 petiolis, pubescentibus, supra pubescentibus, inferius, interstitiis
 caulis, et pinnulis longioribus, pinnis, in duos, liliis.
 Papillae, pinnatis, et longioribus, basi, late, angulatis, flos
 membranaceis, vix, pinnatis, et unguibus, albigenis, marginatis,
 in apicem, liliis, acuminalibus, terminatis.
 Flores, in capitulis, parvis, umbellatis, parvis, pinnatis,
 pinnis, erectis. Caudiculis, pinnatis, aut pinnis, pinnatis,
 angulatis, erectis. Ductibus, interstitiis, in pinnis, pinnatis.
 Calyces, pubescentibus, pallidis, angulatis, parvis, quinque
 lobatis, in dentibus, acuminatis, liliis, dentibus, liliis, longis,
 pubescentibus, lobatis, apice, pallidis, floscentibus.

TYPUS

5. *Trifolium angulatum* Waldst. et Kit.



9. *Achillea crithmifolia* Waldst. et Kit.



10. *Achillea setacea* Waldst. et Kit.



11. *Cerastium sylvaticum* Waldst. et Kit.

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12. *Senecio rupestris* Waldst. et Kit.



13. *Arabis procurrens* Waldst. et Kit.



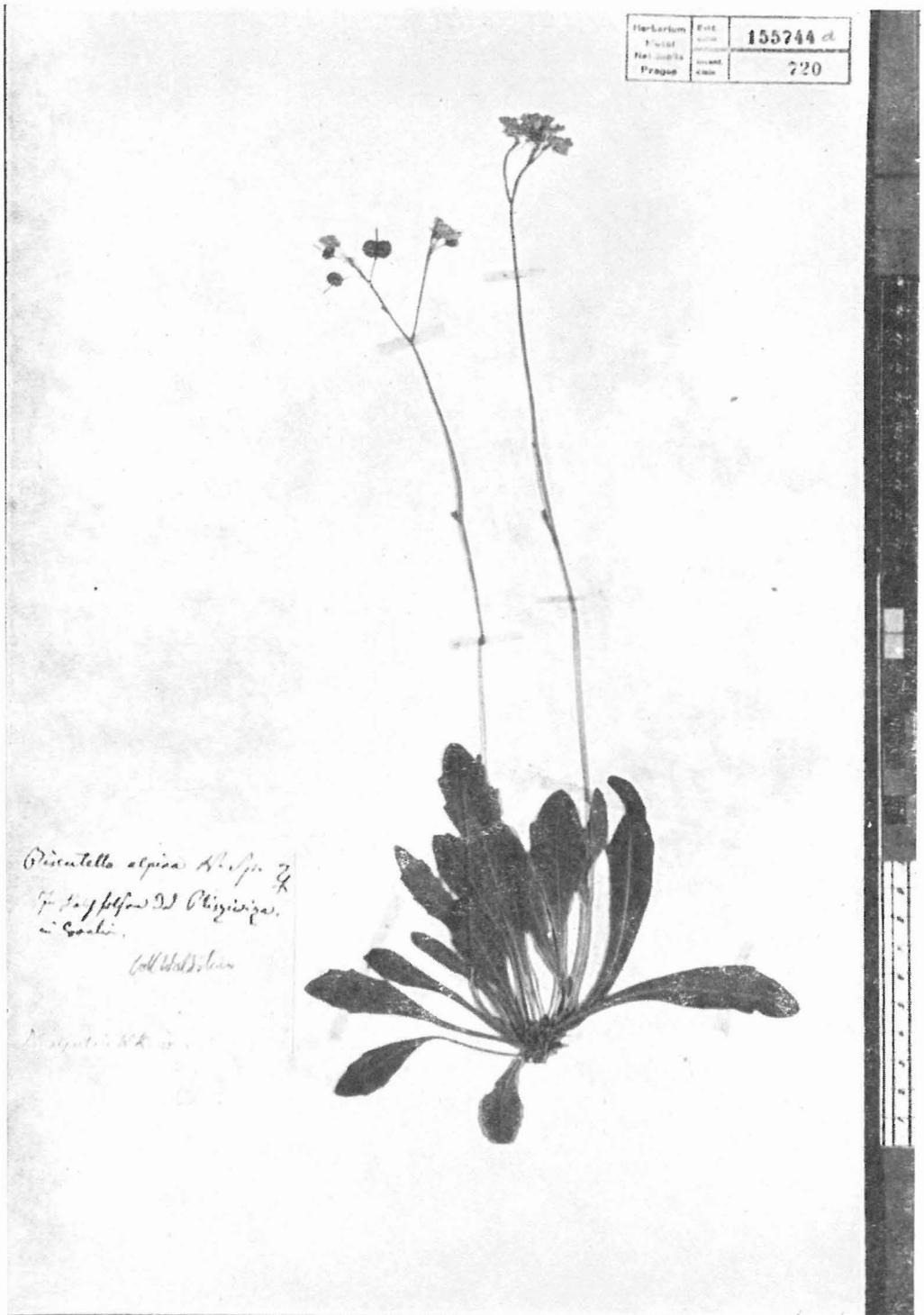
14. *Dianthus serotinus* Waldst. et Kit.

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	Invent. Satis	774



Iris hungarica N. Sp.
= *hungarica*

15. *Iris hungarica* Waldst. et Kit.



16. *Biscutella alpensis* Waldst. et Kit.

involucral bracts imbricate, linear subulate, glabrous; corolla up to 20 mm, with lobes ca. 10 mm long, pappus up to 17 mm.

= *Carduus alpestris* WALDST. et KIT.

268. *Rubus agrestis* Waldst. et Kit., Icon. Pl. Rar. 3:297, tab. 268, 1810. — The type is not deposited in PR.

269. *Trifolium reclinatum* Waldst. et Kit., Icon. Pl. Rar. 3:299, tab. 269, 1810.— The type is not deposited in PR.

270. *Epipactis microphylla* Sw.

271. *Helleborus purpurascens* Waldst. et Kit., Icon. Pl. Rar. 3:301, tab. 271, 1811. — The type is not deposited in PR.

272. *Dentaria glandulosa* Waldst. et Kit., Icon. Pl. Rar. 3:302, tab. 272, 1811. — The type is not deposited in PR.

273. *Hieracium stoloniflorum* Waldst. et Kit., Icon. Pl. Rar. 3:303, tab. 273, 1811. — The type is not deposited in PR.

274. *Digitalis fuscescens* Waldst. et Kit., Icon. Pl. Rar. 3:304, tab. 274, 1812. — The type is not deposited in PR.

275. *Erythraea emarginata* Waldst. et Kit., Icon. Pl. Rar. 3:305, tab. 275, 1812. — The type is not deposited in PR.

276. *Arenaria gracilis* Waldst. et Kit., Icon. Pl. Rar. 3:305, tab. 276, 1812. — PR 495740/709.

Nine short, leafy stems, some of them with flowers and fruits. Label written probably by Waldstein with name: "Arenaria densa, oder condensata. Besser gracilis", and short description of plant. Small blue label written probably by Kitaibel: "Arenaria gracilis N. Sp.". Sternberg standard label with locality (Hungarn).

Stems papillose, scabrid below, slender; leaves lanceolate, 5–6 × 0,1 cm, one-veined, denticulate; flowers 1–2, long pedicelate, sepals 3,5–4,0 mm long, glabrous, acute; petals longer than sepals.

= *Arenaria gracilis* WALDST. et KIT.

277. *Hesperis africana* L.

278. *Allium flexum* Waldst. et Kit., Icon. Pl. Rar. 3:307, tab. 278, 1812. — The type is not deposited in PR.

279. *Onosma arenaria* Waldst. et Kit., Icon. Pl. Rar. 3:308, tab. 279, 1812. — PR 212926/10074 a, b, c.

a) One whole, leafy (32 cm) plant with root and flowers. Sternberg standard label with locality (Hungarn).

b) Two plants (27 and 33 cm) with leaves and flowers. Small label probably written by Kitaibel: "Onosma arenaria N. Sp. Ungarn". This specimen selected as lectotype.

c) One leafy plant (37 cm) with flowers. Small Waldstein label: "Onosma linearis N. Sp. coroll. candid. foliis linearis. Zwischen Melkut und Topolja, Batscher Comitát".

All stems leafy, stems and leaves densely puberulent and semipatent setose, setae up to 2–3 mm long; cauline leaves oblong-lanceolate, (3,5–) 5–6 × (0,4–) 0,6–0,9 cm; inflorescences branched; calyx 7–9 cm long, deeply divided; corolla 12–15 mm long, longer than calyx, glabrous to puberulent.

= *Onosma arenaria* WALDST. et KIT.

280. *Euphorbia viridiflora* Waldst. et Kit., Icon. Pl. Rar. 3:309, tab. 280, 1812. — PR 155810/779.

Three leafy, simple plants (19, 32 and 36 cm) with inflorescences. Two Waldstein labels: "Euphorbia viridiflora bey Gorenitzza in Corbavien — ich fand nur der einzige Exemplar...", and second label with name *Euphorbia dulcis* and not quite illegible localities.

One plant, according to original illustration, corresponds with *E. viridiflora*. Plant (36 cm) with stem glabrous to dispersely hairy; middle cauline leaves oblong, up to 5 cm long and 1,3 cm wide, serrate, dispersely hairy beneath; ray-leaves like cauline, rays 5; raylet-leaves triangular-subcordate; capsule young, pubescent with hemispherical tubercles.

This plant represents infraspecific taxon of the species *E. dulcis* L. The others are typical *E. dulcis* L.

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WALDSTEINOVA SBÍRKA V HERBÁŘÍCH NÁRODNÍHO MUZEA V PRAZE

Autoři zhodnotili Waldsteinův herbářový materiál, uložený v botanickém oddělení Národního muzea v Praze, který byl spolu s materiálem P. Kitaibela v Budapešti, základem pro vydání společné práce F. A. Waldsteina a P. Kitaibela *Descriptiones et icones plantarum rariorum Hungariae 1799—1812*. Z nově popsaných druhů v tomto díle je v Národním muzeu v Praze (PR) uloženo 136 druhů. Položky jsou opatřeny originálními etiketami, psanými jednak Waldsteinem (často s podrobným textem, který byl podkladem pro dílo *Icones*), dále K. Sternbergem (s poznámkou „Aus Graf Waldsteins Herbarium“) a ojedinele i Kitaibelem (pouze s označením druhu).

U jednotlivých nově popsaných druhů uvádíme stručný popis rostlin i etiket, základní morfologické znaky a taxonomické hodnocení.

Po prostudování herbářových sbírek F. A. Waldsteina v Praze i P. Kitaibela v Budapešti, se domníváme, že v obou případech se jedná o materiály lektotypového charakteru, ale na základě studia etiket i ucelenosti pražského materiálu, je možno usoudit, že Waldsteinova sbírka má oproti početnější budapeštské, bezprostřední vztah k dílu *Icones*.

List of species with numbers of tables according Icones

(The bold-faced names refer to type specimens deposited in PR-herbarium.)

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