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## **The Theodor Schreiber Herbarium in the Botanical Collection of Țării Crișurilor Museum in Oradea, Bihor County (part II)**

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**Abstract.** This paper aims to continue the evaluation of the data contained in a herbarium with hard covers, labeled with the name Theodor Schreiber, representing a part of a larger herbarium which entered in the Botanical Collection of the Țării Crișurilor Museum in Oradea in 1955 by transfer from the then High School no 4 in Oradea. As it is a bound volume, it contains 92 sheets, respectively 187 pages with botanized plants received from different collectors of that time. Their collecting is thought to have been performed in the 19th century and their collecting areas, most of them belonging to the former Austro-Hungarian Empire, are today in many European countries, mostly in Austria, but also in Switzerland, Hungary, Slovakia, Slovenia, Italy, the Czech Republic, Germany and Romania. After processing the material, we arranged it according to an updated taxonomic classification, specifying the accepted name, and where possible the location, the date and the collector (where mentioned or identified by signature). Thus we present 329 taxa belonging to 143 genera and 34 families, according to the taxonomic classification employed (Systema Naturae 2000- Universal Taxonomic Services – Last updated: 7 Apr 2012).

## Introduction

This paper attempts to further publish the data and information contained in the herbarium that, together with the one that is bound and hard-covered, presented in the first part (Danciu & Golban, 2013) are part of the larger herbarium labeled with the name Theodor Schreiber ("Szárnövények készítette Schreiber Th. – 1866"). The present one consists of sheets grouped in bundles, still having the author's name on their title page, together with a text initially meant to order the grouping of the botanized plants. The herbarium in its entirety (that is the bound, hard-covered herbarium, three boxes of bundles consisting of sheets with botanized plants, and two boxes with pressed plants yet not fixed on sheets, but labeled) were included in the Botanical Collection of the Țării Crișurilor Museum in Oradea on December 15, 1955, by transfer from the High School no. 4 in Oradea, the former Gymnasium of the Premonstratensian Order which functioned by the Premonstratensian Monastery of the "Mother of Sorrows", today's "Mihai Eminescu" National College. This paper refers only to the "larger" herbarium which contains three boxes of 41 bundles, of which we present only 13 that also contain numbered pages with botanized plants. This second part of the Schreiber herbarium contains nine bundles (numbered I to IX), to which four unnumbered bundles are added (probably as a result of a previous dismemberment of parts of the original herbarium). The 13 bundles contain 199 sheets (of which two are blank), in which the collected plants are botanized; there are plants that have undergone different levels of degradation over time or have not been preserved at all. Similar to the data in the first part, these specimens were collected by different collectors whose names, acronyms or signatures are not always mentioned, and neither are the collecting dates or locations. Even when signatures existed and locations were mentioned, the handwriting often proved indecipherable. The collection should be dated in the 19th century if the dates on some labels are considered.

With regard to the collectors, most of them then originated from areas of the former Austro-Hungarian Empire and to Western European countries, too, reaching Spain, France, Belgium and West Germany, respectively, Sardinia and Greece (the Isle of Crete), and eastward, up to the Crimean peninsula (Odessa), Ukraine, Eastern Prussia and Russia. To these, the Central European areas of Switzerland, Northern Italy, Austria, the Czech Republic, Slovakia, Poland, Hungary, Romania (Transylvania), Serbia, Bosnia-Herzegovina, Slovenia, and Croatia are added. There are also items from locations outside Europe, such as the Middle East (Syria) and North America (Missouri, USA). Among the collectors we identified there are personalities then famous in the world of naturalists (herbalists), spe-

cialized in plant taxonomy, even if their work was not much connected to botany (as they were physicians, pharmacists or teachers). Thus we mention the names of collectors from the former Austrian-Hungarian Empire or of those who collected both in Austrian territory and in German or Hungarian ones, even reaching as far as Banat and Transylvania (now in Romania), such as Paul Ascherson, Georg von Frauenfeld, Jakob Juratzka, J. C. Equus a Pittoni, J. von Kovats, Robert Rauscher, O. C. Schramm, Victor Janka, Ferdinand Schur, Jermy Gusztav, Ludwig Lajos Richter, Janos A. Heuffel, Wolfner, Antal Czet, Florian Porcius, and Bedrich Velsky. There are also collectors who have been active in more restricted areas, with certain peculiarities, such as A. Makovsky in the Czech Republic (Bohemia), M. Tommasini, Vincenzo de Cesati, G. A. Pirona, Pietro Porta, Rupert Huterori Morandell in Italy (in Trieste and the area of Southern Tyrol), W. A. Schneller (Serbia - Voivodina) C. F. H. Wimmer in Poland (Silesia – Wroclaw), Liudjevit Farkas Vukotinovic (with Tommasini and Frauenfeld) in Croatia, or Heinrich Zollinger, J. C. Rehsteiner, Mademoiselle Cottet, F.-J. Lagger, and C. Christener in Switzerland (for the alpine flora). We found names of collectors who worked in Belgium (medicinal flora), such as Armand Thielens, or in France and Spain, such as A. F. Le Jolis (Cherbourg), A. Huguenin (Savoie), Chichale (Paris) and A. Huet du Pavillon with F. S. Alioth (Eastern Pyrénées). For Greece and Syria, the identified collectors are K. G. T. Kotschy (Syria) and T. H. H. Heldreich (Greece). We need to mention (as we did in the first part, too) that besides the fact that in this herbarium there are names of collectors that we found nothing special about or whose signatures could not be deciphered, there are also samples with no mention of any author.

### **Material and method**

The examined material represents a part of the “Th. Schreiber Herbarium”, namely the part consisting of 41 bundles, deposited in the collection of the Țării Crișurilor Museum in Oradea, divided into three boxes. The present study focuses on only 13 of the bundles, deposited in the third box, respectively, the first nine bundles (numbered from I to IX), to which four more unnumbered bundles are added (probably as a result of a previous dismemberment of parts of the original herbarium). The 13 bundles contain 199 sheets (of which two are blank), in which the collected plants are botanized; there are plants that have undergone over time different levels of degradation or have not been preserved at all. When rendering the names of the species, we took into account their accepted scientific name, mentioning the reference source of their first description and their synonyms when

they were significant. To verify and update the information, we used the database of the Royal Botanical Garden Edinburgh – *Flora Europaea*, the *uBio Portal* ([www.ubio.org/portal/-5k](http://www.ubio.org/portal/-5k)) and The Plant List database (<http://www.theplantlist.org/>). When presenting the systematical units, we consulted the study of V. Ciocârlan (2000), which follows the rules and recommendations of the International Code for Botanic Cataloguing, and the site *Systema Naturae 2000* (<http://taxonomicom.taxonomy.nl>) in order to update the taxonomic classification (the variant entered after January 26, 2014). We also mentioned the current location of collecting, the date and the collector's name when it was mentioned and the signature was legible.

Abbreviations used: n. = inventory number; Ref. = reference index for the first description of the species; leg. = the author who collected and determined the plant; Ord. = order; Fam. = Family.

### Systematic part

Domain ***Eukaryota*** Chatton, 1925

***Unikonta***

***Opisthokonta*** Cavalier-Smith, 1987

***Holomycota***

Kingdom ***Fungi*** T. L. Jahn & F. F. Jahn, 1949 ex R. T. Moore, 1980

Subkingdom ***Dikarya*** D. S. Hibbett et al., in D. S. Hibbett et al., 2007

Phylum ***Ascomycota*** H. C. Bold, 1957 ex T. Cavalier-Smith, 1998

Subphylum ***Pezizomycotina*** O. E. Eriksson & K. Winka, 1997

Clas ***Lecanoromycetes*** O. E. Eriksson & K. Winka, 1997

Ord. ***Umbilicariales*** H. T. Lumbsch et al., in D. S. Hibbett et al., 2007

Fam. ***Umbilicariaceae*** Chevall., 1826

Gen. ***Umbilicaria*** Hoffm., 1789

***Umbilicaria polyphylla* (L.) Baumg** – (n 8233 / fsc. FN; p. 18/d) Ref.: BAUMG., *Fl. Lips.*: 571 (1790); Syn.: *Gyrophora polyphylla* (L.) Fink; *Gyrophora glabra* (Ach.) Ach.; *Gyrophora glabra* var. *polyphylla* (L.) Gray; *Lichen polyphyllus* L.; France, Alsacia, Bas-Rhin, Bischoffsheim, Bischenberg, no date, illegible signature.

Subclas ***Ostropomycetidae*** V. Reeb et al., 2004

Ord. ***Ostropales*** Nannf., 1932

Fam. ***Graphidaceae*** Dumort., 1822

Gen. **Graphis** Adans., 1763

**Graphis scripta** (L.) Ach – (n 8233 / fsc. FN, p 18/f) Ref.: *K. Vetensk-Acad. Nya. Handl.* 28: 145 (1809); Syn.: *Leproncus scriptus* (L.) A. St.-Hil.; *Lichen scriptus* L.; *Opegrapha scripta* (L.) Ach.; *Verrucaria scripta* (L.) F. H. Wigg.; unidentified location, no date, leg. Richter L.

**Bikonta**

“**photokaryotes**”

Kingdom *Plantae* Haeckel, 1866

**Viridiplantae** Cavalier-Smith, 1981

Phylum **Chlorophyta** A. Pascher, 1914

“**core chlorophytes**”

Class **Ulvophyceae** K. R. Mattox & K. D. Stewart, in D. E. G. Irvine & D. M. John, 1984

Ord. **Cladophorales** Haeckel

Fam. **Cladophoraceae** Wille

Gen. **Cladophora** Kützing, 1843, nom. cons.

**Cladophora glomerata** (Linnaeus) Kützing – (n 8233 / fsc. II, p 12/b) Ref.: *Cladophora glomerata* (L.) Kützing 1843: 266; Syn.: *Conferva glomerata* L.; *Cladophora uberrima* Lam.; unmentioned location, no date, no signature.

**Streptophyta**

“**charophytes**”

Clas **Charophyceae** L. Rabenhorst, 1863

Ord. **Charales** Lindley, 1836

Fam. **Characeae** Agardh

Trib. **Chareae**

Gen. **Chara** C. Linnaeus, 1753

**Chara vulgaris** L. – (n 8233 / fsc. FN; p. 18/a) Ref.: *Species plantarum - Chara vulgaris* Linnaeus 1753: 1156; Syn.: *Chara vulgaris* var. *vulgaris* (Linnaeus) R. D. Wood; *C. montana* Schleicher ex C. H. Persoon; *C. vulgaris* var. *montana* (Schleicher ex C. H. Persoon) De Candolle; *C. vulgaris excelsa* (T. F. Allen) R. Wood; *C. batrachosperma* J. L. Thuillier ; unmentioned location, no date, leg. Richter L.

**Embryophyta** Endlicher, 1836

Phylum **Bryophyta** A. Braun, in P. Ascherson, 1864

Class **Bryopsida**

Subclas **Bryidae** Engl., 1892

Superord. **Bryanae**

Ord. **Bryales**

Fam. **Bartramiaceae** Schwägr.

Gen. **Bartramia** J. Hedwig, 1801, nom. cons.

**Bartramia halleriana** Hedw. – (n 8233 / fsc. FN; p. 18/e) Ref.: *Sp. Musc. Frond. 164 164 1801.*; Syn.: *Bartamia alpicola* Ng.; *B. jacquenotiana* Schimp.; *B. lateralis* Della Tore & Sarnth.; unidentified location (bei Leuchsteris?), August 1861, leg. Richter L.

Subclas **Dicranidae**

Ord. **Dicranales**

Fam. **Dicranaceae** Schimp.

Gen. **Paraleucobryum** (S. O. Lindberg ex Limpricht) Loeske, 1907

**Paraleucobryum enerve (Thed) Loeske** – (n 8233 / fsc. FN; p. 18/b) Ref.: *Hedwigia 47: 171 171 1908*; Syn.: *Dicranum albicans* Bruch & Schimp; *D. albicans* Schwagr.; *D. enerve* Thed.; unidentified location, no date, leg. Preuer.

Fam. **Ditrichaceae** Limpr.

Gen. **Ceratodon** S. E. Bridel, 1826

**Ceratodon purpureus (Hedw.) Brid** – (n 8233 / fsc. FN; p. 18/c) – Ref. *Bryol. Univ. 1: 480 480 1826*; Syn.: *Ceratodon purpurascens* Brid.; *C. purpurascens* (Hedwig) Jennings; *C. purpureus* var. *purpurascens* (Hedwig) Bridel; *Dicranum purpureum* Hedwig; France, Alsacia, Bas-Rhin, Bischoffsheim, Bischenberg, 1854, no signature - Label: Wilhelm Siegmund – In Bischenberg (Obs : Botanischer Tauschverein in Wien).

“**polysporangiophytes**”

Phylum **Tracheophyta** Sinnott, 1935 ex Cavalier-Smith, 1998

Subphylum **Euphyllophytina**

Infraphylum “**Moniliformopses**” Kenrick & Crane, 1997, nom. inval.

Clas **Polypodiopsida** Cronquist et al., 1966

«**core leptosporangiates**»

Ord. **Polypodiales** Link, 1833

«**eupolypods**»

“**eupolypods I**”

Fam. **Dryopteridaceae** Ching, 1965, nom. cons

Gen. **Polystichum** A. W. Roth, 1799, nom. cons.

**Polystichum lonchitis** (L.) Roth – (n 8233 / fsc. II; p. 12/c) Ref.: Tent Fl. Germ. 3(1): 71 (1799); Syn.: *Aspidium lonchitis* (L.) Sw.; *Dryopteris lonchitis* (L.) Kuntze; unmentioned location, no date, no signature, leg. H. Fuchs. Obs.: erroneous determination: instead of *Funaria hygrometrica* Hedwig (Bryophyta) should be *Polystichum lonchitis* (L.) Roth (Pteridophyta).

“**eupolypods II**”

Fam. **Aspleniaceae** Newman

Gen. **Asplenium** C. Linnaeus, 1753

**Asplenium septentrionale** (L.) Hoffm – (n 8233 / fsc. II; p. 12/a) Ref.: Deutschl. Fl. (Crypt) 12 (1795); Syn.: *Acrostichum septentrionale* L.; unidentified location, no date, leg. Richter L.

Fam. **Thelypteridaceae** Ching ex Pichi-Serm.

Gen. **Phegopteris** (Presl) Fée, 1852

**Phegopteris connectilis** (Michx) Watt – (n 8233 / fsc. FN; p. 1/a) Ref.: Canad. Nat. Quart. Jour. Sci. ser. 2 3: 159 (1867); Syn.: *Polypodium phegopteris* L.; *Phegopteris polypodioides* Fée; Germany, Northern Rhineland-Westfalia, Köln, Duren, Hurtgenwald, June 1863, no signature – Ex herb. Armand Thielens, D. S. N. Tirlemont (Belgium).

Fam. **Woodsiaceae** Herter, 1949

Gen. **Cystopteris** Bernhardt, 1805, nom. cons.

**Cystopteris fragilis** (L.) Bernh. – (n 8233 / fsc. FN; p. 1/c) Ref.: Neues Jour. Bot. 1(2): 27 (1805); Syn.: *Cystopteris regia* (L.) Desv.; *Cystopteris alpina* (Roth) Desv.; *Cystopteris filix-fragilis* (L.) Borbás; Belgium, Liege, Limbourg, Dolhain (Eins de Dolhain), June 1863, no signature – Ex herb. Armand Thielens, D. S. N. Tirlemont (Belgium).

Gen. *Gymnocarpium* Newman, 1851

***Gymnocarpium dryopteris* (L.) Newman** – (n 8233 / fsc. FN; p. 1/b) Ref.: Phytologist 4: 371 (1851); Syn.: *Polypodium dryopteris* L.; *Phegopteris dryopteris* (L.) Fée; *Dryopteris disjuncta* (Rupr) C. V. Morton; *D. linnaeana* C. Chr.; *Thelypteris dryopteris* (L.) Sloss.; Germany, Northern Rhineland -Westfalia, Köln, Duren, Hurtgenwald, June 1863, no signature – Ex herb. Armand Thielens, D. S. N. Tirlemont (Belgium).

Infraphylum “*Radiatopses*” Kenrick & Crane, 1997

“*lignophytes*”

Clas *Spermatopsida*

“*core seed plants*”

Subclas *Magnoliidae* Novák ex Takhtajan, 1967

“*core angiosperms*”

Superord. *Lilianae* Takhtajan, 1967

“*commelinids*”

Ord. *Asparagales* Link, 1829

Fam. *Alliaceae* Batsch ex Borkh., 1797, nom. cons.

Subfam. *Allioideae* (Borkh., 1797) Herb., 1837

Trib. *Allieae* (Borkh., 1797) Dumort., 1827

Gen. *Allium* C. Linnaeus, 1753

***Allium albidum* Fisch ex M. Bieb. ssp. *albidum*** – (n 8233 / fsc. IV; p. 13/c) Ref.: Fl. Taur.-Cauc 3: 260 (1819); Syn.: *Allium ammophilum* Heuff.; *Allium flavescens* Besser; Romania, Transylvania (in mont arid pr N. Enyed in Transylvania occidentalis), July 1863, leg. Dr. Pavai.

***Allium angulosum* L.** – (n 8233 / fsc. I; p. 1/a) Ref.: Sp. Pl. ed. 1 300 (1753); Syn.: *Allium acutangulum* Schrad.; Austria (Hoebesbrunn in Lower Austria), August 1863, leg. Matz (Obs.: damaged plant).

***Allium flavum* L.** – (n 8233 / fsc. IV; p. 12/b) Ref.: Sp. Pl. ed. 1 298 (1753); Syn.: *Allium pseudopulchellum* Omelczuk; Italy, Merano Bolzano, Fragsburg, July 1863, leg. Haslinger.

***Allium scorodoprasum* L. ssp. *rotundum* (L.) Stearn** – (n 8233 / fsc. IV; p. 12/c) Ref.: Ann Mus Goulandris 4: 178 (1978); Syn.: *Allium rotundum* L.; *Allium rotundum* L. ssp. *rotundum*; Serbia, Voivodina, Novi Sad, Futog (Futtak), 15.06.1854, leg. Schneller.

**Allium sphaerocephalon** L. – (n 8233 / fsc. IV; p. 9/a) Ref.: Sp. Pl. ed. 1 297 (1753); Syn.: *Allium cilicicum* auct. balcan., non Boiss.; *Porrum sphaerocephalon* (L.) Rchb. France, Languedoc-Roussillon, Pyrénées Orientales, Prades, Mont Louis, 24 August 1852, leg. Huet du Pavillon.

**Allium subhirsutum** L. – (n 8233 / fsc. I; p. 1/b–a) Ref.: Sp. Pl. ed. 1 295 (1753); Syn.: *Allium clusianum* Retz.; Italy, Liguria; no date, leg. Cesati (damaged plant).

**Allium subhirsutum ssp. subhirsutum** – (n 8233 / fsc. I; p. 1/b–b) Ref.: Sp. Pl. ed. 1 295 (1753); Syn.: *Allium ciliatum* Cirillo (Pl. Rar. Neapol. 2: 16 1792); Italy, Sardinia; no date, leg. Cesati (Obs.: damaged plant).

**Allium victorialis** L. – (n 8233 / fsc. IV; p. 8/b) Ref.: Sp. Pl. ed. 1 295 (1753); Syn.: *Cepa victorialis* (L.) Moenh.; France, Rhone-Alpes (Les pris fleuris , audepuis d'Allieres), July 1861, leg. M-elle Cottet.

Fam. **Asparagaceae** A. L. de Jussieu, 1789, nom. cons.

Gen. **Paradisea** Mazzucato, 1811, nom. cons.

**Paradisea liliastrum** (L.) Bertol. – (n 8233 / fsc. FN.; p. 22/a) Ref.: Fl. Ital. 4: 133 (1840); Syn.: *Liliastrum album* Link; Italy, Tirol, Ampezzo Alpentriste bei 5000' Dolomit., 18 July 1856, leg. Huter – Ex Herbario J. C. Equitis Pittoni a Dannenfeldt.

**Paradisea liliastrum** (L.) Bertol. – (n 8233 / fsc. VI; p. 13) Ref.: Fl. Ital. 4: 133 (1840); Syn.: *Anthericum liliastrum* (L.) L.; *Hemerocallis liliastrum* L.; *Liliastrum album* Link; France, Rhone-Alpes, Isere, Varcès-Allières-et-Risset (Rochers des alpes audepuis d'Allières), June 1862, leg. M-elle Cottet.

Trib. **Hyacintheae** Dumort., 1827

Gen. **Muscari** P. Miller, 1754

**Muscari racemosum** Mill. – (n 8233 / fsc. FN 2; p. 5/a) Ref.: Gard. Dict. ed. 8 3 1768; Syn.: *Muscari moschatum* Willd.; *M. muscarimi* Medik.; Romania, Banat (In prescuis mundaris, agrio in arris, Banatus Meg.), no date, leg. Heuffel.

**Muscari transilvanicum** Schur – (n 8233 / fsc. IV; p. 13/a) Ref.: Gard. Dict. Abr. ed. 4 (1754); Romania, Bistrița-Năsăud, Rodna, no date, leg. Porcius.

Gen. ***Urginea*** Steinheil, 1834

***Urginea maritima* (L.) Baker** – (n 8233 / fsc. VI; p. 10) Ref.: Jour. Linn. Soc. London (Bot.) 13: 221 (1873); Syn.: *Charybdis maritima* (L.) Speta, *Drimia maritima* (L.) Stearn; *Scilla maritima* L.; *Urginea scilla* Steinh.; Italy, Reg. Sicilia, no date, no signature - Herbarium I et R Musaei Florentini.

Gen. ***Scilla*** C. Linnaeus, 1753

***Scilla bifolia* L.** – (n 8233 / fsc. VI; p. 11/a) Ref.: Sp. Pl. ed. 1 309 (1753); Syn.: *Scilla alpina* Schur.; *S. bifolia* L. ssp. *bifolia* var. *nivalis* (Boiss) Baker; *S. subtriphylla* Schur; Romania, Bistrița-Năsăud, Rodna (at Korongys a Piatra Stoluluj), 19 June 1856, leg. Czetz.

***Scilla bifolia* L.** – (n 8233 / fsc. IV.; p. 13/b) Ref.: Sp. Pl. ed. 1 309 (1753); Syn.: *Scilla alpina* Schur.; *Scilla bifolia* ssp. *alpina* (Schur) Nyman; Romania, Bistrița-Năsăud, Rodna (Prope Radnam Transilvanie in alpa Korosnyirs), at 6000 ped., July 1858, no signature.

Gen. ***Ornithogalum*** C. Linnaeus, 1753

***Ornithogalum chloranthum* M. Bieb.** – (n 8233 / fsc. VI; p. 11/b) Ref.: Flora Taurico-Caucasica 2: 264, 1808; unidentified location, no date, illegible signature.

***Ornithogalum pyramidale* L.** – (n 8233 / fsc. VI; p. 11/c) Ref.: Sp. Pl. ed. 1 307 (1753); Syn.: *Ornithogalum brevistylum* Wolfner; *O. pyramidale* L. ssp. *brevistylum* (Wolfner) Briq.; *O. narbonense* L. ssp. *brevistylum* (Wolfner) Nyman; Romania, Arad, Semlac (Szemlak, in Hungary), no date, leg. Dr. Wolfner.

Gen. ***Hyacinthoides*** Heister ex Fabricius, 1759

***Hyacinthoides non-scripta* (L.) Chouard ex Rothm.** – (n 8233 / fsc. VI; p. 12/b) Ref.: Feddes Repert. 53: 14 (1944); Syn.: *Endymion nutans* Dumort.; *E. non-scriptus* (L.) Garcke; *Scilla non-scripta* (L.) Hoffmanns & Link; Austria, Kaltenbach, no date, leg. Linnich Rheinforessen (Obs.: degraded plant).

Subfam. ***Anthericoideae*** (Bartl., 1830) Kostel, 1831Trib. ***Alectorurideae***Gen. ***Anthericum*** C. Linnaeus, 1753

***Anthericum liliago* L.** – (n 8233 / fsc. FN - doi; p. 5/b) Ref.: Sp. Pl. ed. 1 310 (1753); Syn.: *Phalangium liliago* (L.) Schreb.; Germany, Berlin, Auf trockenem Sandbaden beim Spendauer Perge., June 1853, leg. Kornike.

Subfam. **Convallarioideae** (Dumort., 1827) Herb., 1837

Tribe **Polygonateae**

Gen. **Polygonatum** P. Miller, 1754

***Polygonatum hirtum* (Bosc ex Poir.) Pursh** – (n 8233 / fsc. FN; p. 26) Ref.: *Fl. Amer. Sept. 1: 234 1813*; Syn.: *Convallaria latifolia* Jacq.; *C. hirta* Bosc ex Poir.; *Polygonatum latifolium* Desf.; *Sigillaria hirta* (Bosc ex Poir.) Raf.; Austria, Vienna, 28 May 1858, leg. J. Juratzka.

***Polygonatum odoratum* (Mill) Druce** – (n 8233 / fsc. FN; p. 25/a) Ref.: Ann. Scott. Nat. Hist. 1906: 226 (1906); Syn.: *Polygonatum vulgare* Desf.; *P. odoratum* var. *odoratum*; *P. officinale* All.; *Convallaria polygonatum* L.; Belgium, unidentified location (Prelouche?), May 1862, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlmont (Belgium) (obs.: “Rare”).

Subfam. **Ruscoideae** (Dumort., 1829) Dippel, 1889

Gen. **Ruscus** C. Linnaeus, 1753

***Ruscus aculeatus* L.** – (n 8233 / fsc. I; p. 12.) – Ref. Sp. Pl. ed. 1 1041 (1753): Syn.: *Ruscus ponticus* Woronow; *Ruscus hyrcanus* sensu Stankov & Taliev, non Woronow; Romania, Bihor, Oradea, Săldăbagiu (Soldobagy bei Grosswardein), 4 March, 1863, leg. Adolf Steffek - Ex Flora hungarica.

Fam. **Asphodelaceae** A. L. de Jussieu, 1789

Gen. **Asphodelus** C. Linnaeus, 1753

***Asphodelus albus* Mill.** – (n 8233 / fsc. FN; p. 24/a) Ref.: Gard. Dict. ed. 8 no 3 (1768); Syn.: *Asphodelus arrondeaui* J. Lloyd; *A. macrocarpus* Parl.; *A. sphaerocarpus* Gren & Godr.; *A. subalpinus* Gren & Godr.; In pratis montanis Roboretanorum, no date, no signature (Label: Herb Peter).

Fam. **Hemerocallidaceae** R. Brown, 1810

Gen. **Hemerocallis** C. Linnaeus, 1753

***Hemerocallis flava* L.** – (n 8233 / fsc. VI; p. 4/b) Ref.: Sp. Pl. ed. 2, 1:462 1762; Syn.: *Hemerocallis lilioasphodelus* L.; unidentified location, 1862, no signature. Aus der Pflanzenmsammlung des Baron Nicomed Raffern (Label: Botanischer Tauscherein in Wien) (Obs.: degraded plant).

Ord. **Liliales** Perleb, 1826

Fam. **Colchicaceae** A. P. de Candolle, 1804, nom. cons.

Trib. **Colchiceae** T. Nees & C. H. Eberm ex Endl., 1836

Gen. **Colchicum** C. Linnaeus, 1753

***Colchicum alpinum* DC** – (n 8233 / fsc. IV; p. 12/a) Ref.: Fl. Fr. ed. 3 3: 195 (1805); Syn.: *Colchicum pseudoparvulum* Lojac.; *C. parvulum* Ten.; *C. vallis-demonis* Lojac.; Switzerland, Valais, Visp, Zermatt (flor august), no date, leg. Dr. Lager.

***Colchicum arenarium* Waldst. & Kit.** – (n 8233 / fsc. IV; p. 11/b) Ref.: *Descr. Icon. Pl. Hung. 2: 195 1810*; Syn.: *Colchicum fominii* Bordz.; Hungary, Budapest, Pest, no date, leg. Richter.

Ord. **Poales** Small, 1903

***Carex vulpina* L.** – (n 8233 / fsc. I; p. 7/a) Ref.: Pl. ed. 1 973 (1753); Syn.: *Carex compacta* Lam.; *Carex vulpina* L. ssp. *vulpina* var. *compacta* (Lam) Velen.; Belgium, Flemish Brabant, Tirlemont, May 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlemont (Belgium).

***Carex vulpina* L.** – (n 8233 / fsc. I; p. 7/b) Ref.: Pl. ed. 1 973 (1753); Syn.: *Carex compacta* Lam.; *Carex vulpina* L. ssp. *vulpina* var. *compacta* (Lam.) Velen.; Belgium, Flemish Brabant, Tirlemont, May 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlemont (Belgium).

Fam. **Gramineae** A. L. de Jussieu, 1789, nom. cons., nom. alt.

***Gramineae* sp.** – (n 8233 / FN 3; p. 4/a) Ref.: *Gramineae* A. L. de Jussieu, 1789, nom. cons., nom. alt.; Romania, Bistrița-Năsăud, Dumbraveni (Gants), 22 June 1858, no signature (possibly A. Czetz).

***Gramineae* sp.** – (n 8233 / fsc. – f.n; p. 15/a) unidentified location, no date, no signature.

**Gramineae sp.** – (n 8233 / fsc. – f n; p. 15/b) Romania, Transylvania, Bistrița-Năsăud, Dumbraveni (Gantsi határ), no date, no signature (possibly A. Czetz).

Gen. ***Coleanthus***

***Coleanthus subtilis* (Tratt.) Seidl.** – (n 8233 / FN 3; p. 3/b) Ref.: Syst. Veg. ed. nov. (15) 2: 276 (1817); Czech Republic, Namiest, no date, leg. Roemer-Namiest.

Subfam. ***Arundinoideae***

Trib. ***Arundineae*** Dumort., 1824

Gen. ***Arundo*** C. Linnaeus, 1753

***Arundo donax* L.** – (n 8233 / fsc. – no number; p. 4/a) Ref.: Sp. Pl. ed. 1 81 (1753); Syn.: *Arundo maxima* Forssk.; France, Languedoc-Roussillon, Narbonne, no date, leg. Huguenin.

Gen. ***Molinia*** Schrank, 1789

***Molinia caerulea* (L.) Moench** – (n 8233 / fsc. - no number; p. 13/b) Ref.: Meth. 183 (1794); Romania, Maramures (Marmarosz Havason a Pop gvanon min. igz. 6500 laba), August 1857, no signature (author's obs. – plant infested with the fungus *Uredo segetum*) (degraded plant).

Subfam. ***Ehrhartoideae***

Trib. ***Oryzeae*** Dumort., 1824

Gen. ***Leersia*** O. Swartz, 1788, nom. cons.

***Leersia oryzoides* (L.) Sw.** – (n 8233 / fsc. - no number; p. 11/a) Ref.: Nov. Gen. Sp. Pl. 21 (1788); Syn.: *Homalocenchrus oryzoides* (L.) Pollich; *Leersia hexandra* auct., non Sw.; *Oryza oryzoides* (L.) Brand; Romania, Banat, Aug.-Sept., leg. Heuffel.

Subfam. ***Pooideae***

Gen. ***Ammophila*** Host, 1809

***Ammophila baltica* (Flüggé ex Schrad) Link** – (n 8233 / fsc. - no number; p. 2/b) Ref.: Hort. Berol. 1: 105, 1827; Syn.: *Ammocalamagrostis baltica* (Flüggé ex Schrad) P. Fourn.; *Arundo baltica* Flüggé ex Schrad (basionym); unidentified location (Rugau?), July 1856, leg. Arneth – Label: Botanischer Tauschverein in Wien.

Trib. **Aveneae** Dumort., 1824

Subtrib. **Alopecuridinae** Dumort., 1829

Gen. **Agrostis** C. Linnaeus, 1753

**Agrostis sp.** – (n 8233 / fsc. - no number; p. 6/a) Romania, Transylvania, Bistrița-Năsăud, Dumbraveni (Gantsi heggelen), 1856, no signature (obs.: possibly *Agrostis aculeata* Scop.), possible author A. Czetz.

Gen. **Alopecurus** C. Linnaeus, 1753

**Alopecurus gerardii Vill.** – (n 8233 / fsc. – FN; p. 4/b) Ref.: Syst. Pl. Eur. 1, Fl. Delph. 5 (1786); Syn.: *Phleum gerardi* All.; *Colobachne gerardi* (Vill.) Link; Italy, Piemont (Col. della pinestre, Secalpen Piemont), June 1856, leg. Alioth.

Gen. **Calamagrostis** Adanson.

**Calamagrostis pseudophragmites (Haller f) Koeler** – (n 8233 / FN 3; p. 3/a) – Ref. Descr. Gram. 106 (1802); Syn.: *Calamagrostis glauca* (M. Bieb.) Trin.; *C. littorea* DC.; unmentioned location, no date, no signature.

Trib. **Bromeae** Dumort., 1824

Gen. **Bromus** C. Linnaeus, 1753

**Bromus sp.** – (n 8233 / fsc. - no number; p. 8/a) Ref.: Sp. Pl. ed. 1 76 (1753); unmentioned location, no date, no signature.

**Bromus sp.** – (n 8233 / fsc. - no number; p. 8/b) Ref.: Sp. Pl. ed. 1 76 (1753); unmentioned location, no date, no signature.

**Bromus grossus Desf. ex DC** – (n 8233 / FN 3; p. 2/b) Ref.: Fl. Fr. ed. 3 3: 68 (1805); Syn.: *Bromus grossus* Scrb.; *B. secalinus* ssp. *grossus* (Desf. ex DC) Domin; *B. secalinus* var. *grossus* (Desf. ex DC) Neilr.; *B. secalinus* var. *velutinus* (Schrad) Koch; Austria, Vienna (In agris cultei circa Perchtoldshof agri Vindobonensis), 13 June 1858, leg. Juratzka.

Trib. **Poeae** R. Br., in M. Flinders, 1814

Gen. **Cynosurus** C. Linnaeus, 1753

**Cynosurus echinatus L.** – (n 8233 / fsc. - no number; p. 13/a) Ref.: Sp. Pl. ed. 1 72 (1753); Syn.: *Falona echinata* (L.) Dumort.; France, Hérault, Languedoc-Roussillon, Béziers, 1 June 1852, no signature.

Gen. **Festuca** C. Linnaeus, 1753

**Festuca flavescens Bellardi** – (n 8233 / FN 3; p. 12/a) Ref.: *Mem. Reale. Accad. Sci. Torino* 5: 217 1793.; Syn.: *Festuca pumila* var. *flavescens*; *F. varia* ssp. *acuminata*; *F. varia* ssp. *flavescens*; Romania, Banat, Caras-Severin, Baile Herculane (In rupestris ambrosis montis Domugled ad Thermas Herculis in Banata), May-June, leg. Heuffel.

**Festuca illyrica Markgr.-Dann** – (n 8233 / FN 3 - p 11/c) Ref.: *Bot. Jahrb.* 92: 151 (1972); Romania, Banat, May-June, leg. Heuffel.

**Festuca livescens Schur** – (n 8233 / FN 3; p. 11/b) Ref.: *Festuca* C. Linnaeus, 1753; Romania, Transylvania (In rupestribus calcareis Transilv in monte Kapellenberg p. Coronam), May, leg. Dr. Schur.

**Festuca oligosanthe Schur** – (n 8233 / FN 3; p. 11/a) Ref.: *Festuca* C. Linnaeus, 1753; Romania, Transylvania (In pasteris alpin Transilvaniae In monte Bulla), July, leg. Dr. Schur.

**Festuca spectabilis Jan** – (n 8233 / FN 3; p. 12/b) Ref.: *Elench. Hort. Parm.* 2 (1827); Syn. *Festuca sieberi* Tausch; *Festuca nemorosa* Dalla Torre & Sarnth.; *Festuca coarctata* Hack.; unmentioned location, no date, no signature, com. M. Tommasini – Ex Herbario Florae Illyricae.

Gen. **Lolium** C. Linnaeus, 1753

**Lolium multiflorum Lam** – (n 8233 / fsc. FN 2; p. 4/b) Ref.: *Fl. Fr. ed. 1* 3: 621 (1779); Syn.: *Lolium italicum* A. Braun; *Lolium gaudinii* Parl.; *Lolium aristatum* Lag.; Austria, Vienna, 13 May 1858, leg. J. Juratzka.

Trib. **Stipeae**Gen. **Piptatherum**

**Piptatherum paradoxum (L.) P. Beauv** – (n 8233 / fsc. - no number; p. 11/b) Ref.: *Agrost.* 18 & 173 (1812); Syn.: *Milium paradoxum* L.; *Oryzopsis paradoxa* (L.) Nutt.; Austria, Leithagebirg ober Wilfleinsdorf ad silvarum oras, inter frutices, May, leg. J. v. Kovats.

Trib. **Triticeae** Dumort., 1824

Gen. **Leymus** Hochstetter, 1848

**Leymus arenarius (L.) Hochst.** – (n 8233 / fsc. FN 2; p. 4/a) Ref.: Flora (Regensb.) 31: 118 (1848); Syn.: *Elymus arenarius* L.; Germany, Brandenburg (Brandenb. Flora), 22.07.1854, no signature - Ex herbario Schrummii.

Gen. **Secale** C. Linnaeus, 1753

**Secale sylvestre Host.** – (n 8233 / FN 3; p. 4/b) Ref.: Gram. Austr. 4: 7 (1809); Syn.: *Secale fragile* M. Bieb.; unmentioned location, no date, no signature.

Subfam. **Panicoideae**

Trib. **Andropogoneae** Dumort., 1824

Gen. **Heteropogon** Persoon, 1807

**Heteropogon contortus (L.) P. Beauv. ex Roem. & Schult** – (n 8233 / fsc. - no number; p. 15/c) – Ref.: Syn.: *Heteropogon allionii* (DC) Roem. & Schult.; *Heteropogon glaber* Pers; *Andropogon contortus* L.; Italy, Trentino-Alto Adige, South Tyrol, Bolzano (Germ.: Bozen), no date, leg. Haun.

Fam. **Juncaceae** A. L. de Jussieu, 1789, nom. cons.

Gen. **Luzula** A. P. de Candolle, in Lamarck & A. P. de Candolle, 1805, nom. cons.

**Luzula sp.** – (n 8233 / fsc. IV.; p. 1/a) Ref.: Fl. Fr. ed. 3 3: 158 (1805); (no 1), unmentioned location, no date, no signature.

**Luzula campestris (L.) DC** – (n 8233 / fsc. IV.; p. 1/c) Ref.: Fl. Fr. ed. 3 3: 161 (1805); *Luzula subpilosa* V. I. Krecz.; Romania, Transylvania, Bistrița-Năsăud, Ciceu-Giurgești, Dumbrăveni (Gancs - Erek mind a Gantsi határrol. valak...), 14 May 1863, no signature (possible author A. Czetz).

**Luzula forsteri (Sm.) DC** – (n 8233 / fsc. IV.; p. 4/b) Ref.: Syn. Pl. Fl. Gal. 150 1806; Syn.: *Luzula caspica* Rupr. ex Bordz.; *Juncus forsteri* Sm.; unidentified location (Dogn), no date, leg. Hausmann.

**Luzulamultiflora(Retz)Lejssp.congesta(Thuill.)Hyl.**–(n8233/fsc.IV;p.2/a)Ref.: Uppsala Univ. Årsskr. 1945(7): 110(1945); Syn.: *Luzula congesta* Thuill.; Czech Republic., Namiest, no date, leg. Eusren (Label: Florader Rheinlande–C. Roemer, Namiest).

***Luzula pilosa* (L.) Willd** – (n 8233 / fsc. IV; p. 2/b) Ref.: Enum. Pl. Horti Berol. 393 (1809); Syn.: *Luzula vernalis* (Reichard) DC.; unidentified location, 15.04.1858, leg. Al. Makonsky.

***Luzula sylvatica* (Huds) Gaudin** – (n 8233 / fsc. IV; p. 5/a) Ref.: Agrost. Helv. 2: 240 (1811); Syn.: *Luzula silvatica* (Gaud) Janka; *L. maxima* (Reichard) DC.; *Juncus sylvaticus* Huds.; Romania, Transylvania (Prope pagum Gants in Transilvania), June 1860, leg. Czetz.

Genus ***Juncus*** C. Linnaeus, 1753

***Juncus alpinus* Vill. var. *rariflorus* (Hartm.) Hartm.** – (n 8233 / fsc. IV; p. 7/b) Ref.: Hist. Pl. Dauph. 2: 233 (1787); Syn.: *Juncus alpinoarticulatus* Chaix; *Juncus paniculatus* Lucé; *Juncus articulatus* L.; *Juncus rariflorus* Hartm.; Romania, Bistrița-Năsăud, Rodna (In alpebus Rodnasibus Transilvaniae, alt. 5500-6500 pd., Kérem ha lehet determinálni és nekem meg irni), leg. Czetz.

***Juncus bufonius* L.** – (n 8233 / fsc. IV; p. 3/b) – Ref. Sp. Pl. ed. 1 328 (1753); Syn.: *Juncus dregeanus* C. Presl; *Juncus divaricatus* Gilib.; Belgium, Flemish Brabant, Tienen (Tirlemont), July 1862, no signature – Ex Herb. Armand Thielens, D. S. N. Tirlemont (Belgium).

***Juncus effusus* L.** – (n 8233 / fsc. IV; p. 5/b) Ref.: Sp. Pl. ed. 1 326 (1753); Syn.: *Juncus communis* E. Mey pro parte; *J. fistulosus* Guss.; *J. expansus* Jan; Romania, Bistrita-Nasaud, Rodna (Pojana Rotunda), 21 July 1858, no signature (obs.: possible author A. Czetz).

***Juncus inflexus* L.** – (n 8233 / fsc. IV; p. 7/a) Ref.: Sp. Pl. ed. 1 326 (1753); Syn.: *Juncus paniculatus* Hoppe ex Mert; & W. D. J. Koch; *Juncus paniculatus* Hoppe, non Lucé; Italy, Friuli-Venezia Giulia, Trieste, no date, no signature – Ex Herbario Florae Illyricae – comm. M. Tommasini.

***Juncus jacquinii* L.** – (n 8233 / fsc. IV; p. 4/a) Ref.: Mantissa 63 (1767); Syn.: *Juncus atratus* Lam., non Krock; unidentified location (In valle Bevers Bhactin), 23 Aug 1862, leg. Allegalmaien.

***Juncus maritimus* Lam** – (n 8233 / fsc. IV; p. 1/b) Ref.: Encycl. Méth. Bot. 3: 264 (1789); Syn.: *Juncus ponticus* Steven; unidentified location (Bunle?), no date, leg. Tommasini.

***Juncus sphaerocarpus* Nees** – (n 8233 / fsc. IV; p. 6) Ref.: Flora (Regensb.) 1: 521 (1818); unidentified location, no date, leg. Joh. Ortmann (Label: Wiener Tausch-Herbarium).

***Juncus tenuis* Willd** – (n 8233 / fsc. IV; p. 3/a) Ref.: Sp. Pl. 2: 214 (1799); Syn.: *Juncus gesneri* Sm.; *Juncus macer* Gray; *Juncus smithii* Kunth; *Juncus gracilis* Sm., non Roth; Belgium, Flemish Brabant, Campine brabançonne, July 1862, no signature – Ex Herb. Armand Thielens, D S N Tirlémont (Belgium).

***Juncus trifidus* L.** – (n 8233 / fsc. IV; p. 5/c) Ref.: Sp. Pl. ed. 1 326 (1753); Romania, Bistrița-Năsăud, Rodna (in summi alpinum pugias Rodnensibus in Transylvania, 7000 p, no date, leg. Czetz.

“**core angiosperms**”, “**eudicots**”

“**core eudicots**”

Superord. ***Rosanae*** Takhtajan, 1967

“**fabids**”

Ord. ***Fabales*** Bromhead, 1838

Fam. ***Leguminosae*** A. L. de Jussieu, 1789, nom. cons.

Gen. ***Dorycnium***

***Dorycnium pentaphyllum* Scop ssp. *herbaceum* (Vill.) Rouy** – (n 8233 / fsc. II; p. 7/b) Ref.: Fl. France 5:135 1899; Syn.: *Dorycnium herbaceum* Vill.; *D. intermedium* Ledeb.; Czech Republic, Moravia, Brno-Country, Sokolnice (Sokolnitz), July 1857, leg. A. L. Makovsky.

Subfam. ***Papilionoideae*** (Giseke, 1792) DC., 1825

Gen. ***Astragalus*** C. Linnaeus, 1753

***Astragalus asper* Jacq.** – (n 8233 / fsc. IX; p. 12/b) Ref.: Misc. Austr. Bot. 2: 335 (1781); Romania, Cluj, Turda (Torda), no date, leg. Schur.

***Astragalus sempervirens* Lam ssp. *sempervirens*** – (n 8233 / fsc. IX; p. 1/b) Ref.: Encycl. Méth. Bot. 1: 320 (1783); Syn.: *Astragalus aristatus* L'Hér.; Switzerland, Fribourg (In Monte Mortai in pago friburgens.), no date, leg. Dr. Lager.

***Astragalus vesicarius* L.** – (n 8233 / fsc. VII; p. 12/a) Ref.: Sp. Pl. ed. 1 760 (1753); Ukraine, Odessa Oblast, Odessa, no date, leg. Richter, com illegible (obs.: determination uncertain).

Trib. ***Cytiseae*** Horan., 1847

Gen. ***Genista*** C. Linnaeus, 1753

**Genista sagittalis L.** – (n 8233 / fsc. FN 2; p. 3/a) Ref.: Sp. Pl. 2: 710 1753 (1 May 1753); Syn.: *Chamaespartium sagittale* (L.) P. E. Gibbs; *Genistella sagittalis* (L.) Gams; *Cytisus sagittalis* (L.) W. D. J. Koch; *Pterospartum sagittale* (L.) Willk.; unidentified location, Aug. 1860, illegible signature.

**Genista tinctoria L.** – (n 8233 / fsc. IX; p. 1/c) – Ref.: Sp. Pl. 2: 710 (1753); Syn.: *Genista hungarica* A. Krner; *G. mayeri* Janka; unidentified location (Pircteffs Pod?), 20 August 1858, leg. Janka.

**Genista triquetra Lam** – (n 8233 / fsc. IX; p. 1/a) Ref.: Encycl. 2(2): 622 (1788); Syn.: *Genista triquetra* L'HER., *Spartium triquetrum* (Lam) Steud.; unidentified location, no date, no signature – comm. M. Tommasini – Ex Herbario Florae Illyricae.

Gen. **Spartium** C. Linnaeus, 1753

**Spartium radiatum L.** – (n 8233 / fsc. IX; p. 12/c) Ref.: Sp. Pl. 2: 708 1753; Syn.: *Cytisanthus radiatus* (L.) O. F. Lang; Romania, Banat, June 1856, leg. Heuffel.

Trib. **Fabeae** Rchb., 1832

Gen. **Lathyrus** C. Linnaeus, 1753

**Lathyrus pannonicus (Jacq.) Garcke ssp. pannonicus** – (n 8233 / fsc. FN 2; p. 1/b) Ref.: Enum. Stirp. Vindob. 128 1762; Name verified on: 13 Feb 1989 by ARS Systematic Botanists, last updated: 27 Oct. 1998; Syn: *Orobus pannonicus* Jacq.; *Orobus pannonicus* Jacq. var. *macrorhiza* Neih.; *Lathyrus pannonicus* (Jacq.) Garcke ssp. *velebiticus* (DeGen. & Lengyel) Bässler; Austria, Vienna, 16 May 1858, leg. J. Juratzka.

Gen. **Lens** P Miller, 1754, nom. cons.

**Lens culinaris Medik** – (n 8233 / fsc. IX; p. 11/c) Ref.: Vorl. Churpf. Phys.-Ökon. Ges. 2: 361 (1787); Syn.: *Ervum lens* L.; *Vicia lens* (L.) Coss & Germ.; unidentified location, no date, leg. Cheffer.

Gen. **Vicia** C. Linnaeus, 1753

**Vicia argentea Lapeyr** – (n 8233 / fsc. II; p. 9) Ref.: Hist. Abr. Pyr. 417 (1813); Spain, Castanere (Pyrénées – Esspagnia), no date, no signature.

**Vicia tomentosa Steud** – (n 8233 / fsc. VI; p. 1) Ref.: *Nomencl. Bot.* 1: 883 1821; Syn.: *Vicia tomentorum* L.; *Vicia tomentosa* Hort ex Steud.; Romania, Bihor, Oradea (pr Felix par aliacore M. Varadinensi), 27 August 1858, leg. Janka.

Trib. **Galegeae** Bronn, in B. C. J. Dumortier, 1827  
Gen. **Oxytropis** A. P. de Candolle, 1802, nom. cons.

**Oxytropis cuostasa** DC – (n 8233 / fsc. FN 2; p. 2/b) Ref.: Astrag. ed fol. max. 53; ed fol. min.66 (1802); Switzerland, unidentified location, Aug. 1858, leg. Christener.

**Oxytropis halleri** Bunge ex W. D. J. Koch ssp. **velutina** (Sieber) O. Schwarz – (n 8233 / fsc. FN 2; p. 2/c) Ref.: Mitt. Thür. Bot. Ges. 1: 107 (1949); Syn.: *Asragalus velutinus* Sieber; *Oxytropis velutina* (Sieber) Schur; Switzerland, Valais (Branson in Valesia), no date, leg. Dr. Lagger.

Trib. **Hedysareae** DC., 1825  
Gen. **Onobrychis** P Miller, 1754

**Onobrychis caput-galli** (L.) Lam – (n 8233 / fsc. II; p. 11/a) Ref.: Fl. Fr. ed. 1 2: 651 (1778); Syn.: *Hedysarum caput-galli* L.; Croatia (In Dalmatia aestate), 1854, leg. et con. Frauenfeld.

Trib. **Loteae** DC., 1825  
Gen. **Anthyllis** C. Linnaeus, 1753

**Anthyllis montana** L. – (n 8233 / fsc. II; p. 11/b) Ref.: Sp. Pl. ed. 1 719 (1753); Syn.: *Vulneraria montana* Scopoli; Croatia (In Dalmatia aestate), 1854, leg. et con. Frauenfeld.

Gen. **Lotus** C. Linnaeus, 1753

**Lotus sp.** – (n 8233 / fsc. FN 2; p. 2/a) Ref.: Sp. Pl. ed. 1 773 (1753); Croatia, In Dalmatia aestate, 1864, leg. et com. Frauenfeld.

Gen. **Coronilla** C. Linnaeus, 1753

**Coronilla emerus** L. – (n 8233 / fsc. IX; p. 10/b) Ref.: Sp. Pl. ed. 1 742 (1753); Austria, Vienna, 23 June 1862, leg. Dr. Rauscher (Botanischer Tauschverein in Wien).

Trib. **Psoraleeae**  
Gen. **Psoralea** C. Linnaeus, 1753

**Psoralea plumosa** Rchb. – (n 8233 / fsc. FN 2; p. 1/a) – Ref: Fl. Germ. Excurs.: 869

(1832); Syn: *Bituminaria bituminosa* (L.) C. H. Stirt.; *Psoralea bituminosa* var. *plumosa* (Rchb.) Rchb.; Croatia, Istria, Pola, Porto di Bado, 24 iunie 1858, leg. Pidaus.

Trib. **Trifolieae**

Gen. **Trifolium** C. Linnaeus, 1753

**Trifolium agrestis** L. – (n 8233 / fsc. IX; p. 11/d) Ref.: Sp. Pl. ed. 1 764 (1753); unidentified location, no date, leg. Cheffer.

**Trifolium aureum** Pollich – (n 8233 / fsc. IX; p. 12/a) Ref.: Hist. Pl. Palat. 2: 344 (1777); Syn.: *Trifolium agrarium* L., nom. ambig.; unidentified location, no date, leg. Cheffer.

**Trifolium ochroleucon** Huds. – (n 8233 / fsc. IX; p. 11/b) Ref.: Fl. Angl. ed. 1 283 (1762); Syn.: *Trifolium pallidulum* Jord.; unidentified location, no date, no signature.

Ord. **Fagales** Engler, 1892

Fam. **Betulaceae** Gray, 1821, nom. cons. - birch family

Subfam. **Coryloideae** (Mirb., 1815) Hook f., 1870

Trib. **Carpineae** (Vest, 1818) A DC., in A. P. de Candolle & A. L. P. P. de Candolle, 1864

Gen. **Carpinus** C. Linnaeus, 1753

**Carpinus betulus** L. – (n 8233 / fsc. FN; - p 3) Ref.: Sp. Pl. ed. 1 998 (1753); Austria, Vienna, 1 Sept 1858, no signature.

**Carpinus orientalis** Mill. – (n 8233 / fsc. FN; p. 2) Ref.: Gard. Dict. ed. 8 no 3 (1768); Syn.: *Carpinus duinensis* Scop.; unidentified location, no date, no signature – com. M Tommasini (Label: Ex herbario Florae Illyricae).

Subfam. **Fagoideae**

Gen. **Fagus** C. Linnaeus, 1753

**Fagus sylvatica** L. – (n 8233 / fsc. FN; p. 14) Ref.: Sp. Pl. ed. 1 998 (1753); Romania, Transilvania, Bistrița-Năsăud, Ciceu-Giurgești, Dumbrăveni [Gáncs, Canciu, Gants (Prope pagum Gants in Transylvania)], no date, leg. Czetz.

Subfam. **Quercoidae**

Gen. **Castanea** P. Miller, 1754

***Castanea sativa* Mill.** – (n 8233 / fsc. FN; p. 15) Ref.: Gard. Dict. ed. 8 no 1 (1768); Syn.: *Castanea vulgaris* Lam.; unidentified location, 20.03.1863, leg. illegible (Stesserzuta?) – Ex flora hungarica (Obs.: erroneous determination, *Castanea sativa* Mill. instead of *Corylus avellana* L. – revised V. M. Danciu).

Gen. ***Quercus*** C. Linnaeus, 1753

***Quercus charlacea* Janka** – (n 8233 / fsc. FN; p. 11) – Romania, Transylvania, Cluj, Țaga (In sylva ad pagum Czege pertinente), no date, no signature.

***Quercus coccifera* L.** – (n 8233 / fsc. FN; p. 6) Ref.: Sp. Pl. ed. 1 995 (1753); Syn.: *Quercus pseudo-coccifera* Desf.; *Q. pseudococcifera* Webb; *Q. mesto* Boiss.; Spain, Sierra Nevada, 1857, leg. Dell. Campo, com. Alioth.

***Quercus ilex* L. var. *lanceolata* Rotschy** – (n 8233 / fsc. FN; p. 7) Ref.: Sp. Pl. ed. 1 995 (1753); Greece, province of Crete (en insole Creta), 1885, leg. Kotschy.

***Quercus macrocarpa* Michx.** – (n 8233 / fsc. FN; p. 5/a) Ref.: *Hist. Chênes Amér.* 2 1801.; Syn.: *Cerris macrocarpa* (Michx.) Raf.; United States of America, Missouri, St. Louis, no date, no signature.

***Quercus nigra* L. var. *quiqueloba*** – (n 8233 / fsc. FN; p. 4) Ref.: *Trans. Acad. Sci. St. Louis* 3: 542 1878; United States of America, Missouri, St. Louis, 1849, no signature.

***Quercus pubescens* Willd var. *scheini* Heuff.** – (n 8233 / fsc. FN; p. 9) Ref.: Berlin Baumz. ed. 1 279 (1796); Croatia, Vukovar-Syrmia County (In silvis montanis ad Vukovar. Syrmii); no date, leg. Heuffel.

***Quercus robur* L.** – (n 8233 / fsc. FN; p. 13) Ref.: Sp. Pl. ed. 1 996 (1753); Syn.: *Quercus pedunculata* Ehrh.; Romania, Transylvania, Bistrița-Năsăud, Ciceu-Giurgești, Dumbraveni [Gáncs, Canciu, Gants (Prope pagum Gants in Transilvania)], no date, leg. Czetz.

***Quercus suber* L.** – (n 8233 / fsc. FN; p. 8) Ref.: Sp. Pl. ed. 1 995 (1753); Syn.: *Quercus occidentalis* J. Gay; Croatia, City of Pula (Pola), no date, no signature – com. M. Tommasini – Ex herbario Florae Illyricae.

***Quercus sublobata* Kitaibel** – (n 8233 / fsc. FN; p. 12) Ref.: *Oest. Fl. ed. 2, 1: 619* 1814; Syn.: *Quercus petraea* ssp. *petraea*; Romania, Transylvania, Cluj, Țaga [In sylva versus C(ege)...], no date, no signature (obs.: damaged label).

**Quercus sp** – (n 8233 / fsc. FN; p. 10) Ref.: Sp. Pl. ed. 1 994 (1753); unidentified location, (in sylvia Pis Poris ... ?), no date, no signature (obs.: damaged label).

**Quercus velutina Lam** – (n 8233 / fsc. FN; p. 5/b) Ref.: *Encycl. 1: 721 1785.*; Syn.: *Quercus tinctoria* Bartram; *Q. tinctoria* Michx.; *Q. rubra* var. *tinctoria* (Bartram) Kuntze.; *Q. discolor* Aiton; United States of America, Missouri, St. Louis, no date, no signature.

Ord. **Rosales** Perleb, 1826

Fam. **Urticaceae** A. L. de Jussieu, 1789, nom. cons

Trib. **Parietarieae** Gaudich., in H. L. C de Saulces de Freycinet, 1830

Gen. **Parietaria** C. Linnaeus, 1753

**Parietaria judaica L.** – (n 8233 / fsc. FN; p. 17/a) Ref.: Fl. Palaest. 32 (1756); Syn.: *Parietaria diffusa* Mert & W. D. J. Koch; *P. officinalis* ssp. *judaica* (L.) Beg.; Belgium, Walloon region, Liege, Verviers, June 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlemont (Belgium).

**Parietaria officinalis L.** – (n 8233 / fsc. FN; p. 16) Ref.: Sp. Pl. ed. 1 1052 (1753); Syn.: *Parietaria erecta* Mert & W. D. J. Koch; Belgium, Flemish Brabant, Averbode, July 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlemont (Belgium).

**Parietaria officinalis L.** – (n 8233 / fsc. FN; p. 17/b) Ref.: Sp. Pl. ed. 1 1052 (1753); Syn.: *Parietaria erecta* Mert & W. D. J. Koch; Slovakia, Bratislava (Cleinn bei Pressburg), June 1863, leg. Haslinger (obs.: degraded plant).

Ord. **Saxifragales** Dumortier, 1829

**Sedum atratum L.** – (n 8233 / fsc. FN 2.; p. 8/c) Ref.: Sp. Pl. ed. 2 1673 (1763); Romania, Bistrița-Năsăud, Rodna (auf Alpen bei Rodna), no date, leg. Porcius.

**Sedum anglicum Huds** – (n 8233 / FN 3; p. 1/b) Ref.: Fl. Angl. ed. 2 196 (1778); France, Aquitaine, Pyrénées-Atlantiques, Eaux-Bonnes (Pic du Gers audessus des Eaux Bonnes), 4 October 1852, leg. Huet du Pavillon – Basses Pyrénées (Label: Plantes des Pyrénées).

**Sedum hispanicum L.** – (n 8233 / FN 3; p. 1/a) Ref.: Amoen. Acad. 4: 273 (1759); Syn.: *Sedum glaucum* Waldst. & Kit.; *Sedum sexfidum* M. Bieb.; Romania, Banat (in rupestris Banatus), June-July, leg. Heuffel.

***Sedum rubens* L.** – (n 8233 / fsc. VI; p. 16/a) Ref.: Sp. Pl. ed. 1 432 (1753); Syn.: *Crassula rubens* (L.); Otoviac (in versactis), July 1853, illegible signature – Herbarium Burdigalinum.

***Sedum sexangulare* L.** – (n 8233 / fsc. VI; p. 17/a) Ref.: Sp. Pl. ed. 1 430 (1753); Syn.: *Sedum boloniense* Loisel.; *S. mite* auct.; Germany, Hesse, Offenbach am Main, no date, leg. C. B. Lehmann (Label: Botanischer Tauschverein in Wien) – degraded plant.

***Sedum alsinifolium* All.** – (n 8233 / fsc. VI; p. 17/b) Ref.: Fl. Pedem 2: 119 (1785); Italy, Alpes Pedemont; no date, no signature.

***Sedum rubens* L.** – (n 8233 / fsc. VI; p. 17/d) Ref.: Sp. Pl. ed. 1 432 (1753); Syn.: *Crassula rubens* (L.); Romania, Banat (In glarea rivoris in Danubii fracta in Banata), June, leg. Heuffel.

***Sedum spathulatus* W. Kit.** – (n 8233 / fsc. VI; p. 17/e) Ref.: Sp. Pl. ed. 1 430 (1753); Romania, Banat, Mehedinți, Orsova (In cinactis e sycriis ad vetus Orsova in Banata), June-July, leg. Heuffel (obs.: degraded plant).

Superord. ***Caryophyllanae*** Takhtajan, 1967

Ord. ***Caryophyllales*** Juss. ex Bercht. & J. Presl, 1820

Fam. ***Caryophyllaceae*** A. L. de Jussieu, 1789, nom. cons.

Subfam. ***Alsinoideae***

Trib. ***Scleranthae***

Gen. ***Scleranthus*** C. Linnaeus, 1753

***Scleranthus uncinatus* Schur** – (n 8233 / fsc. VI; p. 3/b) Ref.: Mitt. Siebenb. Ver. Naturw. 1: 107 (1850); Syn.: *Scleranthus annuus* L. ssp. *uncinatus* (Schur) Stoj & Stef.; Romania, Bistrița-Năsăud, Rodna, no date, leg. Porcius.

***Scleranthus uncinatus* Schur** – (n 8233 / fsc. FN 2; p. 12) Ref.: Verh. Mitt. Siebenb. Ver. Naturw. 1: 107 (1850); Syn.: *Scleranthus annuus* L. ssp. *uncinatus* (Schur) Stoj & Stef.; Romania, Transylvania, no date, leg. Czetz.

***Scleranthus annuus* L.** – (n 8233 / fsc. - no number; p. 10/c) Ref.: Sp. Pl. ed. 1 406 (1753); Spain, Sierra Nevada (Credo dela Ulona), 20 iunie 1857, leg. Dil. Campo, com. Alioth.

***Scleranthus intermedius* Kitt** – (n 8233 / fsc. - no number; p.10/b) – Ref. Sp. Pl. ed. 1 406 (1753); Syn.: *Scleranthus intermedius* Kitt., 1844; Romania, Transylvania, Bistrița-Năsăud, Rodna, no date, leg. Porcius

***Scleranthus perennis* L.** – (n 8233 / fsc. - no number; p. 10/d) Ref.: Sp. Pl. ed. 1 406 (1753); Romania, Banat (in plunosis, agris e arris Banatus), no date, leg. Heuffel.

***Scleranthus perennis* L. ssp. *dichotomus* (Schur) Nyman** – (n 8233 / fsc. - no number; p. 10/a) Ref.: Fl. BaBlg. ed. 3 434 (1948); Syn.: *Scleranthus dichotomus* Schur; Romania, Transylvania, Bistrița-Năsăud, Rodna, Valea Vinului, July 1858, leg. Czetz.

Subfam. ***Paronychioideae***

Trib. ***Paronychieae*** Dumort., 1827

Gen. ***Herniaria*** C. Linnaeus, 1753

***Herniaria alpina* Vill.** – (n 8233 / fsc. VI; p. 2/c) Ref.: Hist. Pl. Dauph. (Villars) 2: 556 (1787); Switzerland (Ganthora im Binrutsal), no date, leg. Dr. Lagger.

***Herniaria alpina* Vill.** – (n 8233 / fsc. VI; p. 2/d) Ref.: Hist. Pl. Dauph. (Villars) 2: 556 (1787); Switzerland [Gorungras 5500 (Mallis, Pastoris)], July 1886, leg. Christ.

***Herniaria incana* Lam** – (n 8233 / fsc. VI; p. 20) Ref.: Encycl. Méth. Bot. 3: 124 (1789); Syn.: *Herniaria besseri* (Fisch) DC.; *Herniaria macrocarpa* Sibth & Sm.; Romania, Transylvania, Cluj, Turda (In propibus calcareis pr Torda, Transilvaniae), June-July, leg. Janka.

***Herniaria alpina* Chaix** – (n 8233 / fsc. FN 2; p. 11/b) Ref.: in Vill., Hist. Pl. Dauph. 1: 379 (1786); syn.: *Herniaria alpina* Vill.; France, Savoie, Mont Cenis (Italian: Moncenisio), no date, leg. Huguenin (no. 349).

***Herniaria alpina* Chaix** – (n 8233 / fsc. FN 2; p. 11/b) Ref.: in Vill., Hist. Pl. Dauph. 1: 379 (1786); syn.: *Herniaria alpina* Vill.; France, Savoie, Mont Cenis (Italian: Moncenisio), no date, leg. Huguenin (no. 349).

***Herniaria hirsuta* L.** – (n 8233 / fsc. FN 2; p. 11/a) Ref.: Sp. Pl. ed. 1 218 (1753); Syn.: *Herniaria diandra* Bunge; *Herniaria permixta* Guss.; Switzerland, Geneva, Bardonnex, Compesieres, no date, leg. Dr. Lagger.

***Herniaria hirsuta* L. ssp. *cinerea* (DC) Cout** – (n 8233 / fsc. FN 2.; p. 11/c) Ref.: Fl. Portl. ed. 1 202 (1913); Syn.: *Herniaria cinerea* DC.; unidentified location, no date, no signature – Ex herb. Dr. Jos. Calas Schlosser.

***Herniaria hirsuta* L. ssp. *cinerea* (DC) Cout** – (n 8233 / fsc. VI; p. 2/a) Ref.: Fl. Portl. ed. 1 202 (1913); Syn.: *Herniaria cinerea* DC.; Spain, Andalusia, Granada, June 1851, leg. Dr. C. Camp.; com. Alioth.

***Herniaria* sp** – (n 8233 / fsc. VI; p. 19/c) Ref.: Sp. Pl. ed. 1 218 (1753); unmentioned location, 16 July 1858, no signature (label missing).

Subfam. ***Paronychioideae***

Trib. ***Paronychieae*** Dumort., 1827

Gen. ***Illecebrum*** C. Linnaeus, 1753

***Illecebrum verticillatum* L.** – (n 8233 / fsc. VI; p. 2/b) Ref.: Sp. Pl. ed. 1 206 (1753); Spain (Iberia), no date, no signature.

Trib. ***Paronychieae*** Dumort., 1827

Gen. ***Paronychia*** J. Hill, 1756

***Paronychia argentea* Lam** – (n 8233 / fsc. VI; p. 19/b) Ref.: Fl. Fr. ed. 1 3: 230 (1778); Syn.: *Plotzia paronychia* (L.) Samp.; France, Languedoc-Roussillon, Aude, Narbonne, no date, leg. Huguenin.

***Paronychia capitata* (L.) Lam** – (n 8233 / fsc. VI; p. 18/b) Ref.: Fl. Fr. ed. 1 3: 229 (1778); Syn.: *Paronychia capitata* L. non Gr. et Godr.; p. *nivea* DC.; France, Languedoc-Roussillon, Aude, Narbonne, no date, leg. Huguenin.

***Paronychia polygonifolia* (Vill.) DC** – (n 8233 / fsc. FN 2.; p. 11/d) Ref.: Fl. Fr. ed. 3 3: 403 (1805); Syn.: *Plotzia polygonifolia* (Vill) Samp.; France, Savoie, Mont Cenis (Italian: Moncenisio), no date, leg. Huguenin (no. 351).

***Paronychia* sp.** – (n 8233 / fsc. VI; p. 19/a) – Ref.: Gard. Did. Abr. (ed. 4) vol. 3.; *Croatia*, In Dalmatia, 1854, leg. Frauenfeld.

Fam. ***Portulacaceae*** A. L. de Jussieu, 1789, nom. cons.

Gen. ***Montia*** C. Linnaeus, 1753

***Montia fontana* L.** – (n 8233 / fsc. VI; p. 18/a) Ref.: Sp. Pl. ed. 1 87 (1753); Belgium, Aerschot (Brabant), July 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirelmont (Belgium).

***Montia fontana* L.** – (n 8233 / fsc. FN 2.; p. 8/d) Ref.: Sp. Pl. ed. 1 87 (1753); Belgium, Flanders, Aerschot (Brabant), July 1863, no signature – ex Herb. Armand Thielens, D. S. N., Tirelmont (Belgium)

Superord. **Asteranae** Takhtajan, 1967

“**lamiids**”

Ord. **Lamiales** Bromhead, 1838

Fam. **Labiatae** A. L. de Jussieu, 1789, nom. cons., nom. alt.

Subfam. **Lamioideae**

Trib. **Lamieae** Coss & Germ., 1845

Gen. **Ballota** C. Linnaeus, 1753

**Ballota nigra** L. - (n 8233 / fsc. II; p. 8) Ref.: Sp. Pl. ed. 1 582 (1753); Syn.: *Ballota foetida* Lam.; *B. foetida* L. var. *radicans* Schlos Vuk.; *B. nigra* L. ssp. *foetida* Hayek; *B. borealis* Schweigg.; Croatia, Koprivnicko-Križevačka, Kreutz, July-August 1854, no signature – Ex herb. Lud. Farkas-Vukotinovic (Label: Flora Croatica).

Subfam. **Nepetoideae**

Trib. **Mentheae** Dumort., 1827

Subtrib. **Menthinae** Endl., 1838

Gen. **Clinopodium** C. Linnaeus, 1753

**Clinopodium nepeta** ssp. *nepeta* – (n 8233 / fsc. II; p. 10) Ref.: Revis. Gen. Pl. 2:515 1891; last updated: 25 Sept. 2008; Syn.: *Calamintha nepetoides* Jord.; *C. thessala* Hausskn.; *C. nepeta* (L.) Savi; *Melisa nepeta* L.; *Saturjea nepeta* (L.) Scheele; Switzerland, Fribourg, Freiburg im Üechtland, no date, leg. Dr. Lager (Obs.: degraded plant).

Gen. **Thymus** C. Linnaeus, 1753

**Thymus odoratissimus** Ghl. – (n 8233 / fsc. II; p. 5/b) – Russian Federation, Fed. District Volga, reg. Saratov, Saratov, no date, no signature.

**Thymus serpyllum** L. – (n 8233 / fsc. II; p. 3/b) Ref.: Sp. Pl. 590 1753.; Syn.: *Origanum seryllum* (L.) Kuntze; *Sepyllum vulgare* Four; *Thymus campestris* Salisb.; Romania, Transylvania, Alba, Alba Iulia (Karlsburg) (In Transilvanis pr Karlsburg), 24 July 1846, leg. Janka.

Subtrib. **Nepetinae** Coss & Germ., 1845

Gen. **Dracocephalum** C. Linnaeus, 1753

**Dracocephalum austriacum** L. – (n 8233 / fsc. II; p. 5/a) Ref.: Sp. Pl. ed. 1 595 (1753); Austria, Vienna (Grisbrog bei Wien), 28 May 1848 (26 June 1847), leg. Janka.

Gen. **Hyssopus** C. Linnaeus, 1753

**Hyssopus officinalis** L. – (n 8233 / fsc. II; p. 5/c) Ref.: Sp. Pl. ed. 1 569 (1753); France, St. Brath, Pyrénées, no date, no signature.

Gen. **Satureja** C. Linnaeus, 1753

**Satureja montana** L. – (n 8233 / fsc. II; p. 3/a) Ref.: Sp. Pl. ed. 1 568 (1753); Serbia, Zajecar, Kneajevac (Gurgusovac), (Monta Oul. C. Gurgusovac), 1845, leg. D. T.

Ord. **Solanales** Dumortier, 1829

Fam. **Solanaceae** A. L. de Jussieu, 1789, nom. cons.

Subfam. **Solanoideae**

Trib. **Hyoscyameae** Endl., 1839

Gen. **Scopolia** N. J. Jacquin, 1764, nom. cons., orth. cons.

**Scopolia atropoides** Bercht & J. Presl. – (n 8233 / fsc. VII; p. 2) Ref.: Prir. Rostlin. 1 (Solan): 12 1823.; Syn.: *Scopolina atropoides* Schult.; *Scopolia carniolica* Jacq.; Romania, Bistrița-Năsăud, Rodna, no date, leg. Porcius (Obs.: degraded plant).

Subfam. **Solanoideae**

Trib. **Lycieae** Lowe, 1872

Gen. **Lycium** C. Linnaeus, 1753

**Lycium europaeum** L. – (n 8233 / fsc. VII; p. 1) Ref.: Sp. Pl. ed. 1 192 (1753); Syn.: *Lycium orientale* Miers; Romania, Bihor, Oradea (Grosswardein), June 1863, leg. Steffek.

Trib. **Solaneae**

Gen. **Solanum** C. Linnaeus, 1753

**Solanum luteum** Mill. ssp. **alatum** (Moench) Dostál. – (n 8233 / fsc. VII; p. 3) Ref.: Kvetena CSR 1270 (1949); Syn.: *Solanum miniatum* Bernh. ex Willd; *S. nigrum* L. ssp. *alatum* (Moench) C. Kelak.; *S. nigrum* L. ssp. *miniatum* (Bernh. ex Willd) Arcang.; *S. alatum* Moench; Italy, Friuli-Venezia Giulia, Trieste / Tergestum (Dernhoidis in cuttis circa Tergestum), no date, no signature – comm. M. Tommasini – Ex Herbario Florae Illyricae.

Fam. **Boraginaceae** A. L. de Jussieu, 1789, nom. cons.  
Subfam. **Boraginoideae** (A. L. de Jussieu, 1789) Arn., 1832  
Trib. **Boragineae** (A. L. de Jussieu, 1789) Rchb., 1831  
Gen. **Anchusa** C. Linnaeus, 1753

**Anchusa azurea** Mill. – (n 8233 / fsc. VII; p. 6/a) Ref.: Gard. Dict. ed. 8 no. 9 (1768); Syn.: *Anchusa italica* Retz.; *A. paniculata* Aiton; *A. biceps* Vest; Serbia, Voivodina, Novi Sad, Futog (Futtak), 22.05.1857, leg. Schneller.

**Anchusa arvensis** (L.) M. Bieb – (n 8233 / fsc. VII; p. 7/b) Ref.: Fl. Taur.-Cauc 1: 123 (1808); Syn.: *Lycopsis arvensis* L.; unidentified location, 13 Julie 1857, leg. Matz.

**Anchusa arvensis** (L.) M. Bieb – (n 8233 / fsc. VII; p. 17/a) Ref.: Fl. Taur.-Cauc 1: 123 (1808); Syn.: *Lycopsis arvensis* L.; Belgium, Flandra, Flemish Brabant, Louvain, Tienen (Tirlemont), Julie 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlemont (Belgium).

**Anchusa barrelieri** (All.) Vitman – (n 8233 / fsc. VII; p. 9/a) Ref.: Summa Pl. 1: 388 (1789); Romania, Arad, Semlac (Szemplak in Hungary), no date, leg. Dr. Wolfner.

**Anchusa officinalis** L. – (n 8233 / fsc. VII; p. 11/b) Ref.: Sp. Pl. ed. 1 133 (1753); Syn.: *Anchusa angustifolia* L.; Hungary, Jász-Nagykun-Szolnok, Kisujszallas (Nagy-Kunsagi Flora, Kisujszallas - mezei atraczel), 1861, leg. Jermy Gusztav.

**Anchusa variegata** (L.) Lehm – (n 8233 / fsc. VII; p. 12/b) Ref.: Pl. Asperif. 223 (1818); Syn.: *Lycopsis variegata* L.; unspecified location, no data, illegible signature.

**Anchusa sp. L.** – (n 8233 / fsc. VII; p. 12/c) – Ref.: Sp. Pl. 1: 133 1753 (1 May 1753); unspecified location, May 1863, leg. Steffek.

**Anchusa sp. L.** – (n 8233 / fsc. VII; p. 13/a) – Ref.: Sp. Pl. 1: 133 1753 (1 May 1753); - unspecified location, May 1863, leg. Steffek.

**Anchusa sp. L.** – (n 8233 / fsc. VII; p. 16/b) – Ref.: Sp. Pl. 1: 133 1753 (1 May 1753); unspecified location, May 1863, leg. Steffek.

Trib. **Boragineae** (A. L. de Jussieu, 1789) Rchb., 1831  
Gen. **Borago** C. Linnaeus, 1753

***Borago pygmaea* (DC) Chater & Greuter** – (n 8233 / fsc. VII; p. 9/b) Ref.: Bot. Jour. Linn. Soc. 65: 261 (1972); Syn.: *Borago laxiflora* (DC) Fisch., an Poir.; *Campanula pygmaea* DC.; France, Corsica, Ajaccio, no date, no signature (Obs.: de-graded plant).

Gen. ***Nonea*** Medikus, 1789

***Nonea pulla* (L.) DC.** – (n 8233 / fsc. VII; p. 7/a) Ref.: Fl. Fr. ed. 3 3: 626 (1805); Syn.: *Nonea rossica* Steven; *N. taurica* (Ledeb) Ledeb.; unidentified location (In argilosis ad pag. Telso Pold pr Alarolinam), 30 July 1856, leg. Janka.

***Nonea pulla* (L.) DC** – (n 8233 / fsc. VII; p. 14/a) Ref.: Fl. Fr. ed. 3 3: 626 (1805); Syn.: *Nonea rossica* Steven; *Nonea taurica* (Ledeb) Ledeb.; unspecified location, no date, no signature.

Gen. ***Pulmonaria*** C. Linnaeus, 1753

***Pulmonaria rubra* Schott** – (n 8233 / fsc. VII; p. 4) Ref.: Bot. Zeit. 9: 395 (1851); Syn.: *Pulmonaria transilvanica* Schur.; Romania, Bistrița-Năsăud, Rodna, no date, leg. Porcius.

Trib. ***Cynoglosseae*** W. D. J. Koch, 1837

Gen. ***Omphalodes*** P. Miller, 1754

***Omphalodes scorpioides* (Haenke) Schrank** – (n 8233 / fsc. VII; p. 10/a) Ref.: Denkschr. Akad. Wiss. München 3: 222 (1812); unidentified location, 25.04.1857, leg. Al. Makovsky.

Trib. ***Echieae*** Dumort., 1827

Gen. ***Echium*** C. Linnaeus, 1753

***Echium asperrimum* M. B.** – (n 8233 / fsc. VII; p. 14/b) Ref.: Tabl. Encycl. Méth. Bot. 1: 412 (1792); Ukraine, Odessa Oblast, Odessa, no date, leg. Richter.

***Echium plantagineum* L.** – (n 8233 / fsc. VII; p. 13/b) Ref.: Mantissa Alt. 202 (1771); Syn.: *Echium violaceum* L.; Croatia, Dalmatium, no date, leg. Richter.

Trib. ***Eritrichieae*** (Benth & Hook f., 1876) Gürke, in H. G. A. Engler & K. A. E. Prantl, 1893

Gen. **Lappula** Gilib.

**Lappula squarrosa (Retz) Dumort. ssp. squarrosa** – (n 8233 / fsc. VII; p. 18/b) Ref.: Fl. Belg. 40 (1827); Syn.: *Echinosperrum lappula* (L.) Lehm.; unspecified location, June 1862, leg. Steffek – Ex flora hungarica.

Trib. **Lithospermeae** Dumort., 1827

Gen. **Cerinth** C. Linnaeus, 1753

**Cerinth minor L. var. maculata M. B.** – (n 8233 / fsc. VII; p. 5) Ref.: Sp. Pl. ed. 1 137 (1753); Romania, Transylvania (Lensitza?), no date, leg. Porcius.

**Cerinth minor L.** – (n 8233 / fsc. VII; p. 10/c) Ref.: Sp. Pl. 137 1753; Syn.: *Cerinth maculata* L. pro parte; Romania, Bistrița-Năsăud, Rodna (la gyalul Popii), 15 June 1856, leg. Czetz.

Gen. **Myosotis** C. Linnaeus, 1753

**Myosotis pusilla Loisel.** – (n 8233 / fsc. VII; p. 8/b) Ref.: Jour. Bot. Rédigé 2: 260 (1809); France, Corsica, Ajaccio, no date, no signature.

**Myosotis sparsiflora J. G. Mikan ex Pohl.** – (n 8233 / fsc. VII; p. 16/a) – Ref.; Syn.: *Strophostoma sparsiflorum* (J. G. Mikan ex Pohl) Turcz.; unspecified location, no date, no signature.

**Myosotis sylvatica Hoffm** - (n 8233 / fsc. VII; p. 18/a) Ref.: Deutschl. Fl. ed. 1 61 (1791); Syn.: *Myosotis myriantha* Domin; Belgium, Flanders, Flemish Brabant, Louvain, Tienen (Tirelmont), May 1865, no signature – Ex Herb. Armand Thielens, D. S. N., Tirelmont (Belgium).

Gen. **Onosma** Linnaeus, 1762

**Onosma stellulatum Waldst. & Kit** – (n 8233 / fsc. VII; p. 6/b) Ref.: Pl. Rar. Hung. 2: 189 (1804); Monte Meden, 1854, leg. Hillarof.

Subfam. **Heliotropioideae**

Gen. **Heliotropium** C. Linnaeus, 1753

**Heliotropium curassavicum L.** – (n 8233 / fsc. VII; p. 11/a) Ref.: Sp. Pl. ed. 1 130 (1753); – France (Perriere, bei village du Soloios), 7 August 1851, leg. Mane.

***Heliotropium suaveolens* M. Bieb** – (n 8233 / fsc. VII; p. 8/a) Ref.: Fl. Taur.-Cauc. 3: 116 (1819); Russia, Rep. Dagestan, Derbent, no date, no signature.

***Heliotropium supinum* L.** – (n 8233 / fsc. VII; p. 10/b) Ref.: Sp. Pl. ed. 1 139 (1753); France, Languedoc-Roussillon, Hérault, Agde (Dans bi mares deslechees in l'est d'Agde) , 06.07 1851, leg. Alone.

«*campanulids*»

Ord. **Apiales** Nakai, 1930

Fam. **Umbelliferae** A. L. de Jussieu, 1789, nom. cons.,

Gen. ***Cenolophium*** W. D. J. Koch

***Cenolophium denudatum* (Fisch ex Hornem) Tutin** – (n 8233 / fsc. III; p. 15/a) Ref.: Feddes Repert. 74: 31 (1967); Syn.: *Cenolophium fischeri* (Spreng) W. D. J. Koch ex DC.; *Athamanta denudata* Fisch & Hornem.; District Federal, Northern-Western Russia, Oblast Kalinigrad, Sowetsk (Tilsit), August 1862, leg. Vaize (Kohnsberg 425).

Gen. ***Hladnikia*** Rchb.

***Hladnikia pastinacifolia* Rchb.** – (n 8233 / fsc. V; p. 1/a) Ref.: Pl. Crit. 9: 9 (1831); Syn.: *Falcaria pastinacifolia* (Rchb.) Rchb. f.; unidentified location, no date, no signature – comm. M. Tommasini – Ex Herbario Florae Illyricae.

Gen. ***Selinum*** L.

***Selinum carvifolia* (L.) L.** – (n 8233 / fsc. V; p. 8) Ref.: Sp. Pl. ed. 2 350 (1762); Syn.: *Seseli cavifolia* L.; Austria, Vienna, 27 Aug. 1854, leg. J. Juratzka (Obs.: damaged plant).

Gen. ***Silaum*** - P Miller, 1754

***Silaum silaus* (L.) Schinz & Thell.** – (n 8233 / fsc. V; p. 3) Ref.: Viert. Naturf. Ges. Zürich 60: 359 (1915); Syn.: *Silaus pratensis* Besser; *S. besseri* DC.; *S. silaus* (L.) H. Kast; *Peucedanum silaus* L.; *Seseli patense* Cantz.; Austria, Vienna, 1 Sept. 1858, leg. J. Juratzka.

Gen. ***Sison*** L.

***Sison amomum* L.** – (n 8233 / fsc. III; p. 17) Ref.: Sp. Pl. ed. 1 252 (1753); Syn.: *Apium amomum* (L.) Stokes; *Carum amomum* (L.) Koso-Pol.; *Seseli amomum*

Scop.; *Sium amomum* Roth; France, Manche, Cherbourg (Cherburg), 17 Sept 1862, leg. Jolis, com. Haslinger.

Gen. ***Trochiscanthes*** Lindley, 1828

***Trochiscanthes nodiflorus* W. D. J. Koch** – (n 8233 / fsc. V; p. 16) Ref.: Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12: 104 1824; Syn.: *Angelica paniculata* Lam.; *Podopetalum nodiflorum* Gaudin; Italy, Trentino-Alto Adige, Trento, Vallarsa, (Southern Tirol), no date, leg. P. Porta.

***Cicuta virosa* L.** – (n 8233 / fsc. III; p. 11) Ref.: Sp. Pl. ed. 1 255 (1753); Belgium, Carshine, July 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlemont (Belgium).

Gen. ***Petroselinum***

***Petroselinum crispum* (Mill) A. W. Hill** – (n 8233 / fsc. III; p. 18) Ref.: Hand-List Herb. Pl. Kew ed. 3 122 (1925); Syn.: *Carum petroselinum* (L.) Benth.; *Petroselinum peregrinum* (L.) Lag.; *P. petroselinum* (L.) H. Karst; *P. vulgare* Lag; France, Manche, Cherbourg (Cherburg), 6 Sept. 1862, leg. Jolis, com Haslinger.

Gen. ***Seseli*** C. Linnaeus, 1753

***Seseli pallasii* Besser** – (n 8233 / fsc. V; p. 10) Ref.: Cat. Pl. Horto Cremen. 130 (1816); Syn.: *Seseli varium* Trevir.; Austria, Vienna (Laaerberg ppe Vindobonam In pratis sicris – ad vius), 13 July-2 Sept 1855, leg. J. Juratzka.

Trib. ***Caucalideae*** Spreng., in J. J. Roemer & J. A. Schultes, 1820

Gen. ***Orlaya*** G. F. Hoffmann, 1814

***Orlaya grandiflora* (L.) Hoffm.** – (n 8233 / fsc. V; p. 13) Ref.: Gen. Umb. ed. 1 58 (1814); Syn.: *Daucus grandiflora* (L.) Scop.; *Caucalis grandiflora* L.; Belgium, Bas-sines, June 1863, no signature – Ex Herb. Armand Thielens, D. S. N., Tirlmont (Belgium).

Gen. ***Sium*** C. Linnaeus, 1753

***Sium latifolium* L.** – (n 8233 / fsc. VI; p. 5) Ref.: Sp. Pl. ed. 1 251 (1753); Romania, Mehedinți, Orșova (In Banatus paludosis ad Orșova in confri walachine), 18 July 1851, leg. Janka.

Trib. **Peucedaneae** (W. D. J. Koch, 1824) Dumort., 1827  
 Gen. **Ferula** C. Linnaeus, 1753

**Ferula communis L. ssp. glauca (L.) Rouy & E. G. Camus** – (n 8233 / fsc. V; p. 14) Ref.: Fl. Fr. 7: 398 (1901); Syn.: *Ferula glauca* L.; unidentified location, no date, no signature.

**Ferula tatarica Fisch ex Spreng** – (n 8233 / fsc. III; p. 19) Ref.: Pugillus 1: 27 (1813); Ukraine, Odessa Oblast, Odessa, no date, leg. Richter L.

Gen. **Ferulago** W. D. J. Koch, 1824

**Ferulago sylvatica** (Besser) Rchb. – (n 8233 / fsc. V; p. 11) Ref.: Iconogr. Bot. Pl. Crit. 4: 55 1826; Syn.: *Lophosciadium barrelieri* Gris.; *Ferulago barrelieri* Ten.; *Ferulago transsilvanica* Schur.; *Ferula barrelieri* Ten.; *Ferula sylvatica* Besser; Romania, Bistrița-Năsăud, Nimigea, Nimigea de Jos (Prope pagum Magyar Nemegeye in Transylvania), June 1863, leg. Czetz.

Gen. **Peucedanum** C. Linnaeus, 1753

**Peucedanum austriacum (Jacq.) W. D. J. Koch** – (n 8233 / fsc. V; p. 9) Ref.: Nova Acta Acad. Leop.-Carol. 12(1): 94 (1824); Syn.: *Peucedanum cnidioides* Boiss & Heldr.; mountain location unidentified, no date, leg. no signature, comm. M. Tommasini – Ex Herbario Florae Illyricae.

**Peucedanum carvifolia Vill.** – (n 8233 / fsc. V; p. 4) Ref.: Prosp. Pl. Dauph. 25 (1779); Syn.: *Peucedanum chabraei* (Jacq.) Rchb.; Austria, Vienna, 14 sept 1856, leg. J. Juratzka.

**Peucedanum longifolium Waldst. & Kit** – (n 8233 / fsc. V; p. 6/a) Ref.: Pl. Rar. Hung. 3: 279 (1812); Dalmatia, Mt. Dinarici, no date, no signature.

**Peucedanum officinale L.** – (n 8233 / fsc. V; p. 6/b) Ref.: Sp. Pl. ed. 1 245 (1753); Romania, Bihor, Oradea (Ad virearum margine Varadinum, Ungariae), 15 August 1888, leg. Janka (obs.: damaged plant).

**Peucedanum oreoselinum (L.) Moench** – (n 8233 / fsc. V; p. 2) Ref.: Meth. 82 (1794); Syn.: *Athamanta oreoselinum* L.; Austria, Vienna, 14 September 1856, leg. J. Juratzka.

***Peucedanum schottii* Besser ex DC** – (n 8233 / fsc. V; p. 5.) Ref.: Prodr. 4: 178 (1830); Italy, Friuli-Venezia Giulia, Trieste, no date, leg. Tommasini.

***Peucedanum parisiense* W. D. J. Koch** – (n 8233 / fsc. VI; p. 6) Ref.: Syn: Fl. Germ Helv. 1: 303 1835.; Syn.: *Peucedanum petlerius* L.; Hungary, Veszprem, Zanka, no date, no signature, comm. M. Tommasini – Ex herbario Florae Illyricae.

***Peucedanum coriaceum* ssp. *pospichalii* (Thell) Horvatic.** – (n 8233 / fsc. VI; p. 6) Ref.: Fl. Germ. Excurs. 866 (1832); Syn.: *Peucedanum petteri* [1863,1867, Icon. Fl. Germ., 21: 108] sensu Rchb. f; *P. parisiense* W. D. J. Koch (Syn. Fl. Germ. Helv. 1: 303 1835); *P. coriaceum* var. *pospichalii* Thell. (1926); Hungary, Veszprém, Zanka, no date, no signature, comm. M. Tommasini – Ex herbario Florae Illyricae.

***Peucedanum rablense* W. D. J. Koch** – (n 8233 / fsc. VI; p. 15) Ref.: Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 12: 94 1824; Syn.: *Pteroselinum rablense* Rchb.; Italy, bor in mont ad Larium locuns (Mt. Barro), no date, no signature - ex Herb. Cesati.

Trib. **Scandiceae**

Gen. ***Chaerophyllum*** C. Linnaeus, 1753

***Chaerophyllum elegans* Gaudin** – (n 8233 / fsc. III; p. 10) Ref.: Fl. Helv. 2: 364 (1828); Syn.: *Chaerophyllum hirsutum* L. ssp. *elegans* (Gaudin) Arcang.; Switzerland, Grand-Saint-Bernard (ala Pieraz - Grand St. Bernard), no date, leg. Dr. Lager.

Genus ***Anthriscus*** Persoon, 1805, nom. cons.

***Anthriscus cerefolium* (L.) Hoffm** – (n 8233 / fsc. III; p. 14/a) Ref.: Gen. Umb. ed. 1 41 (1814); Syn.: *Anthriscus trichosperma* (Schur) Spreng; unidentified location, June 1863, leg. Haslinger.

***Anthriscus sylvestris* (L.) Hoffm** – (n 8233 / fsc. VI; p. 9) Ref.: Gen. Umb. ed. 1 40 (1814); Syn.: *Anthriscus torquata* H. J. Coste; *Cerefolium sylvestre* (L.) Besser; *Chaerophyllum sylvestre* L.; Romania, Caras-Severin, Băile Herculane (in sylvis ad Thermas Herculis in Banata), May-June, leg. Heuffel (Obs.: damaged plant).

Subfam. **Saniculoideae**Trib. **Saniculeae**Gen. **Eryngium** C. Linnaeus, 1753

**Eryngium bourgati** Gouan – (n 8233 / fsc. III; p. 20/b) Ref.: Obs. Bot. 7 (1773); Croatia, Dalmatia, no date, leg. Richter L.

**Eryngium dilatatum** Lam – (n 8233 / fsc. III; p. 20/a) Ref.: Encycl. Méth. Bot. 4: 755 (1798); Croatia, Dalmatia, no date, leg. Richter L.

Ord. **Asterales** Link, 1829Fam. **Compositae** Giseke, 1792, nom. cons., nom. alt.Gen. **Homogyne** Cassini, 1816

*Homogyne alpina* (L.) Cass – (n 8233 / fsc. - no number; p. 9/a) Ref.: Dict. Sci. Nat. 21: 412 (1821); Syn.: *Tussilago alpina* L.; Alps piedemont, no date, no signature.

Subfam. **Asteroideae**Trib. **Anthemideae** Cass., 1819Subtrib. **Achilleinae** K Bremer & Humphries, 1993Gen. **Achillea** C. Linnaeus, 1753

**Achillea oxyloba** (DC) Sch. Bip. – (n 8233 / fsc. IX; p. 9/d) Ref.: Flora (Regensb.) 38: 15 (1855); Syn.: *Anthemis alpina* L.; Austria, Tyrol, 1854, leg. Huter.

Subtrib. **Anthemidinae** Dumort., 1827Gen. **Anthemis** C. Linnaeus, 1753

**Anthemis austriaca** Jacq. – (n 8233 / fsc. - no number; p. 12/a) Ref.: Fl. Austr 5: 22 (1778); Syn.: *Anthemis cotiformis* Velen.; Austria, Vienna, 4 iun 1854 (fl.), 4 July 1854 (frct.), leg. J. Juratzka. *Anthemis chia* L. – (n 8233 / fsc. IX; p. 9/c) Ref.: Sp. Pl. ed. 1 894 (1753); Syn.: *Anthemis chia* L. ssp. *visianii* (E. Weiss) Nyman; Greece, Attica (In locis cultis Atticae), 8 April. 1856, no signature – De Heldreich Herbarium Graecum normale – Flor. Graec. Tab. 884!

Subtrib. **Artemisiinae** Less., 1830Gen. **Artemisia** C. Linnaeus, 1753

**Artemisia santonicum** L. – (n 8233 / fsc. – f n; p. 16) Ref.: Sp. Pl. ed. 1 845 (1753); Syn.: *Artemisia monogyna* WaldSt. & Kit.; *Artemisia santonicum* subsp. *monogyna* (Waldst. & Kit) Leonova; *Artemisia santonica* Pursh; unspecified location, no date, no signature.

Gen. **Cladanthus** Cassini, 1816

**Cladanthus mixtus** (L.) Chevall. – (n 8233 / fsc. - no number; p. 9/c) Ref.: Flore Générale des Environs de Paris 2: 576 1836; Syn.: *Anthemis mixta* L.; *Chamomilla mixta* Gren & Godr.; *Chamaemelum mixtum* (L.) All.; *Ormenis mixta* (L.) Dumort.; France, Pyrénées-Orientales, no date, no signature.

Subtrib. **Chrysantheminae** (Cassini, in F. Cuvier, 1823 ex Lindl., in Loudon, 1829) Less., 1830

Gen. **Chrysanthemum** C. Linnaeus, 1753

**Chrysanthemum segetum** L. – (n 8233 / fsc. - no number; p. 5/b) Ref.: Sp. Pl. ed. 1 889 (1753); France, Languedoc-Roussillon, Port Vendre, Pyrénées Orientales, 25 July 1852, leg. Huet du Pavillon (label: Plantes des Pyrénées).

Subfam. **Asteroideae**

Trib. **Astereae** Cass., 1819

Subtrib. **Asterinae** Dumort., 1827

Gen. **Aster** C. Linnaeus, 1753

**Aster linosyris** (L.) Bernh. – (n 8233 / fsc. – FN 1 ; p. 3/b) Ref.: Syst. Verz. Erfurt 151 (1800); Syn.: *Linosyris vulgaris* Cass ex DC.; Germany, Brandenburg flora, unidentified location, 9 Febr. 1858, no signature – Ex herbario Schrummii.

Subfam. **Carduoideae**

Subtrib. **Carduinae** Dumort., 1827

Genus **Cirsium** P. Miller, 1754

**Cirsium brachycephalum** Jur. – (n 8233 / fsc. II; p. 2) Ref.: Verh. Zool.-Bot. Ges. Wien 7: 99 (1857); Austria, Vienna, June-July, leg. J. Juratzka.

**Cirsium carniolicum** Scop. – (n 8233 / fsc. II; p. 7/a) Ref.: Fl. Carn. ed. 2 2: 128 (1772); unidentified location, no date, no signature – Ex C. Birnbacher herbario.

Gen. Saussurea A. P. de Candolle, 1810, nom. cons.

**Saussurea discolor** (Willd) DC – (n 8233 / fsc. FN 2; p. 3/b) Ref.: Ann. Mus. Hist. Nat. (Paris) 16: 199 (1810); Syn.: *Saussurea lapathifolia* (L.) H. Karst.; In monte Stack, Egimenthal, no date, leg. Dr. Lagger.

Trib. **Cardueae** Cass., 1819, nom. corr.

Subtrib. **Carlininae** Dumort., 1827

Gen. **Chardinia** Desfontaines, 1817

**Chardinia orientalis** (L.) Kuntze – (n 8233 / fsc. IX; p. 9/a) – Ref.; Syn.: *Chardinia xeranthemoides* Desf-Boiss.; Syrian Arab Republic, Damasc (Iter Sirciacum, a Damasco versus Palmyram, Frequens in agris pagi Mera alt. 4000 ped.), 26 May 1855, leg. Th. Kotschey.

Subtrib. **Centaureinae** Dumort., 1827

Genus **Rhaponticum**

**Rhaponticum centauroides** (L.) O. Bolnš – (n 8233 / fsc. – FN 1; p. 3/d) Ref.: O Bolnš in Arch Naturschutz Landschaftsf 10 1970 139 1970; Syn.: *Rhaponticum cynaroides* Less.; *Leuzea centauroides* (L.) Holub; *Stemmacantha cynaroides* Cass.; *Cnicus centauroides* L.; Esquien (Pyrénées), no date, no signature.

Trib. **Gnaphalieae** Lecoq & Juill., 1831

Subtrib. **Gnaphaliinae** Dumort., 1829

Genus **Filago** C. Linnaeus, 1753

**Filago minima** (Sm.) Pers. – (n 8233 / fsc. IX; p. 8/c) Ref.: «Pers., Syn. Pl. 2 1807.» 422 1807; Belgium, Flemish Brabant, Tienen / Tirlemont, no date, leg. Thielens.

Gen. **Gnaphalium** C. Linnaeus, 1753

**Gnaphalium hoppeanum** W. D. J. Koch – (n 8233 / fsc. IX; p. 9/b) Ref.: Syn Fl. Germ. Helv., ed 2: 399 1843; Syn.: *Omalotheca hoppeana* (W. D. J. Koch) Sch. Bip. & F. W. Schultz; Austria, Tirol Mees Teuschin, 7900', 25 August 1856, leg. Huter.

**Gnaphalium supinum** L. – (n 8233 / fsc. – FN 1; p. 3/c) Ref.: Systema Naturae, ed. 12 3: 234 1768 (Dec 1768); Syn.: *Omalotheca supina* (L.) DC; Alps pedemont, no date, no signature.

Gen. **Helichrysum** P. Miller, 1754, nom. cons., orth. cons.

**Helichrysum italicum** (Roth) G. Don ssp. serotinum (Boiss.) P. Fourn. – (n 8233 / fsc. - no number; p. 7/c) Ref.: Quatre Fl. Fr. 952 (1940); Syn.: *Helichrysum serotinum* Boiss.; *Helichrysum picardii* Boiss. & Reut.; France, Pyrénées-Orientales, Villefranche-de-Conflent, no date, no signature (Obs.: degraded plant).

**Helichrysum stoechas** (L.) Moench. – (n 8233 / fsc. - no number; p. 5/a) Ref.: Meth. 575 (1794); Syn.: *Helichrysum stoechas* DC; France, Languedoc-Roussillon, entre le port luvenal, St. Grammis pres de Montpellier, 15 June 1852, leg. Huet du Pavillon (Label: Plantes des Pyrénées).

Trib. **Inuleae** Cass., 1819

Gen. **Pulicaria** J. Gaertner, 1791

**Pulicaria vulgaris** Gaertn. – (n 8233 / fsc. - no number; p. 7/a) Ref.: Fruct. Sem. Pl. 2: 461 (1791); Germany, Brandenburg (Brandenb. Florae), 24.09.1856, no signature – Ex herbario Schrammii.

Trib. **Lactuceae** Cass., 1819

Subtrib. **Crepidinae** Dumort., 1827

Gen. **Crepis** C. Linnaeus, 1753

**Crepis biennis** L. – (n 8233 / fsc. - no number; p. 14/a) Ref.: Sp. Pl. ed. 1 807 (1753); Syn.: *Crepis lodomeriensis* Besser; *C. tristis* Klokov; Alps piedemonts, no date, no signature.

**Crepis bocconi** P. D. Sell. – (n 8233 / fsc. II; p. 4) Ref.: Bot. Jour. Linn. Soc. 71: 250 (1976); Syn.: *Crepis montana* (L.) Tausch, non Bernh.; Switzerland, Rochers de Bonnoudon (Bonnoudon, audepuis Tallieris), June 1862, leg. M-elle Cottet.

Subfam. **Cichorioideae**

Trib. **Lactuceae** Cass., 1819

Subtrib. **Hypochaeridinae** Less., 1832

Gen. **Hypochaeris** C. Linnaeus, 1753

**Hypochaeris uniflora** Vill. – (n 8233 / fsc. IX; p. 8/d) Ref.: Prosp. Pl. Dauph. 37 (1779); Syn.: *Achyrophorus uniflorus* (Vill.) Bluff & Fingerh.; *Hypochaeris facchiniana ambrosi*; Italy (in pascus alpines Casruae), July 1856, leg. G. A. Pirona.

**Hippocrepis comosa** L. – (n 8233 / fsc. IX; p. 11/a) Ref.: Sp. Pl. ed. 1 744 (1753);

Syn.: *Hippocrepis comosa* L. ssp. *comosa* var. *prostrata* sensu Willk pro parte; unidentified location (Wets in Obnmissm?), July 1862, leg. Braunstinget (stamp: Botanischer Tauschverein in Wien).

Trib. **Lactuceae** Cass., 1819  
 Subtrib. **Lactucinae** Dumort., 1827  
 Gen. **Lactuca** C. Linnaeus, 1753

**Lactuca saligna** L. – (n 8233 / fsc. IX; p. 8/b) Ref.: Sp. Pl. ed. 1 796 (1753); Belgium, Walloon region, Namur, June 1862, no signature, Herb Armand Thielens, D. S. N., Tirlemont (Belgium). Subtrib. *Sonchinae* Rouy, 1927.

Gen. **Sonchus** C. Linnaeus, 1753

**Sonchus plumieri** L. – (n 8233 / fsc. II; p. 6) Ref.: Systema Naturae, Editio Decima 2: 1192 1759 (7 June 1759); Syn.: *Cicerbita plumieri* (L.) Kirschl.; *Mulgedium plumieri* (L.) DC.; *Lactuca plumieri* (L.) Gren & Godr.; Switzerland, Rochers de Bonnoudon, Bonnoudon, April 1863, leg. M-elle Cottet.

Subtribe **Scorzonerinae** Dumort., 1827  
 Genus **Scorzonera** C. Linnaeus, 1753

**Scorzonera austriaca** Willd – (n 8233 / fsc. IX; p. 10/a) Ref.: Sp. Pl. 3: 1498 (1803); Syn.: *Scorzonera glabra* Rupr; Austria, Styria, St. Gottard, Auf Kelkfelsen, 28 May, leg. et com. Eq. de Pittoni (Obs.: degraded plant).

Trib. **Senecioneae**  
 Subtrib. **Senecioninae** Dumort., 1827  
 Gen. **Jacobaea** Mill., 1754

**Jacobaea uniflora** (All.) Veldkamp – (n 8233 / fsc. – FN 1; p. 3/a) – Ref.: Compositae Newslett. 44:9, 2006 [20 Feb 2006]; Syn.: *Senecio uniflorus* All.; *Senecio chabertii* Petitm.; *Senecio halleri* Dandy; Alps piedemont, no date, no signature.

Gen. **Senecio** C. Linnaeus, 1753

**Senecio jacobea** L. – (n 8233 / fsc. - no number; p. 9/b) Ref.: Sp. Pl. ed. 1 870 (1753); Syn.: *Jacobaea vulgaris* Gaertn.; Galles piedemont, no date, no signature.

Subtrib. **Tussilagininae** Dumort., 1827  
Gen. **Adenostyles** Cass.

**Adenostyles leucophylla** (Willd) Rchb. – (n 8233 / fsc. no number, 1, p 5/c) Ref.: Fl. Germ. Excurs. 278 (1831); Syn.: *Cacalia leucophylla* Willd.; *C. tomentosa* Vill.; *Adenostyles tomentosa* Schinz & Thell.; France, Alpes pedemontana, no date, leg. Huet du Pavillon.

### Concluding remarks

As already mentioned, Th Schreiber's herbarium has several components, namely the herbarium itself, bound and hard-covered, as presented in the first part (Danciu & Golban, 2013), then the herbarium consisting of bundled sheets (41 bundles in three boxes were preserved), and finally the herbarium containing botanized samples, loose on sheets, with the corresponding labels (placed in other two boxes) When it was taken over by Tibor Jurcsák and Tamás Béczy in 1955, it was considered as a whole, and because of its oldness (the year 1866 being referred to both on the cover of the bound herbarium and on the bundled one), they considered that the best place for it would be in the deposit of the Natural Sciences department of the Țării Crișurilor Museum. Mentions of this herbarium were made over time (Marossy A., 1973), showing only aspects of the second component (the numbered bundles, some of which still having the name of their collectors). We note that initially the title sheet of each bundle included a number, as well as the number of sheets and of botanized plants included, and also the genera of the species they belong to.

The title sheets do not appear on each bundle (some of the bundles were even dismantled), but a new numbering (written in pencil) is seen as an attempt to rearrange them. Thus the third box got to contain the first 13 bundles (several of them numbered, in an attempt to rearrange it to its initial state, and to which four more numbered bundles are added, probably as a result of dismantling the initial form of the herbarium). In the first box there are 14 bundles (numbered from 10 to 14 and from 21 to 29), whereas in the second box there are the other 13 bundles (numbered from 30 to 35, 37 to 39, 41 to 43, and respectively 45). So, initially there must have been at least 45 bundles, each of them having a text in Hungarian including the name Schreiber Theodor as their collector or owner: *Növénygyűjtemény, készítette Schreiber Theodor, IV-oszt hallgatója, Nagyvárad, 866 január* (which means that he was a student in the fourth grade at the then Gymnasium of the Premonstratensis Monastery in Oradea, and the assemblage of the bundles was

made in January 1866). But the author's real identity has been questioned since the very beginning, as there was a mismatch between his status as a grade school student and the signatures of the collectors mentioned on the labels; many plants were collected by botanists of certain fame (local, regional or even European) in those days. A hypothesis was suggested that this herbarium has been part of another collection of botanized plants, gathered through exchanges and belonging to a dedicated botanist like Viktor Janka, an officer in Oradea. There he worked with Adolf Steffek, a military doctor and botanical collector himself in the area of Oradea, both collectors being mentioned with signatures on some of the labels in the Schreiber Herbarium. To this is also added the fact that on one of the labels, signed by Antal Czetzy, a botanist and collector in the area of Bistrița-Năsăud (Gantz/Canciu, today Dumbrăveni), there is a fragment of his correspondence with V. Janka and the latter's response, while another of Czetzy's labels includes his determination of a *Carex pallescens* L. specimen (Marossy, 1973).

In this presentation we focused on the second component of the Schreiber herbarium, that is on the part consisting of bundled sheets, placed in box III (see Figure 1). The presentation of the taxonomic part and the information in the labels mentioning the taxon, data and location where identified, as well as the collectors' names, which points to the fact that the collection area covers almost the entire Europe, to which several specimens collected in the Middle East (Syria, Lebanon) and North America (USA) were added. Thus, the collecting sites are mainly in Europe, from the Crimean peninsula and western Russia to the Iberian Peninsula (Spain) and the Atlantic Ocean coast (France, Belgium), and from the Baltic Sea (Kaliningrad, Eastern Prussia at that time) down to the Mediterranean Sea (Corsica, Sardinia and Crete), the Adriatic Sea (Trieste and the Croatian Coast), and the Black Sea (Odessa). This territory includes countries of northern Europe (Poland and Germany), countries from the centre of Europe (Switzerland, northern Italy, Austria, the Czech Republic, Slovakia, Poland, Hungary and Romania with its western and north-western regions, respectively Banat and Transylvania), and parts of the Balkan peninsula (Croatia, Bosnia-Herzegovina, Serbia and Greece). The herbarium, as mentioned above, is structured in bundles, initially numbered according to a rule which also included a taxonomical arrangement of the botanized specimens (it can be noticed, in this case, only in bundles seven and eight and only with reference to the respective genera). The bundles in the herbarium are made of sheets of white paper, the approximate size of today's A3 format, folded in two and resulting in a file size as the A4 format, the number of sheets in a bundle varying from six (bundle eight) to 30 (bundle one). The botanized plants

were placed on each sheet, initially by gluing them and with the label applied in most cases directly on the plant; thus the number of plants on the herbarium sheets varies from one to six per sheet. Therefore, in the present case, we have 13 bundles (placed in box III of the collection) containing a total of 199 sheets (two sheets are left blank) on which 338 plants were initially fixed and labeled. 15 specimens were not preserved, only tags were left (see Appendix 2); the remaining 323 specimens were preserved in different stages of conservation, from whole plants to plants in various stages of degradation. Regarding their labels, there are many types of them, some personalized (such as those of M. Tommasini and Armand Tirlemont), and others having a seal instead of a signature (such as *Crist Notar*, or *Pfr – Rehsteiner – Eichberg*). Some labels mention the herbarium they were part of (such as *Ex Herbario J. C. Equitis Pittoni a Dannenfeldt*, *Ex herb. Lud. Farkas-Vukatinovic*, *Ex herbario Schrumii*, *ex Herb. Cesati* or *De Heldreich Herbarium Graecum*), while other labels imply a collection (such as *Flora Croatica*, *Herbario Florae Ilyricae*, *Flora hungarica*, *Plantes des Pyrénées*, *Flora Graec.*, or *Flora de Reinlande* – see Fig. 21 - 22). Many labels are handwritten and signed (although some of the signatures may not be the original ones), and other labels are also handwritten but unsigned, though sometimes the calligraphy can point to the author if there is a signed and authenticated label (as might be the case of A. Czetz, who has many unsigned labels but the nature of the text, its calligraphy and the location are an indication of the true collector). There are also improvised or torn labels and there is only one case of missing label. On some labels there is an indicating seal or a name that might infer another kind of possession (such as *Botanischer Tauschverein in Wien* or *Herbarium I. et R. Musaei Florentini*) suggesting perhaps a legal form of botanized plants distribution, according to the mentalities of those times and for various reasons, including scientific, pedagogical, professional, or as a hobby. As a scientific or pedagogical motivation can be considered the circulation between botanists of the scientific information contained in the herbarium, respectively, the level of education in botany; the professional motivation may involve a certain gainful professional training (usually as a physician, a pharmacist, a teacher or a school graduate), whereas hobby may be related to certain categories of public, such as officials, pupils and students or even actual collectors. The Schreiber Herbarium indicates at least two of these motivations: one related to the circulation of botanical information and the other one related to education in accordance with the norms of those times, if we take into account that the herbarium was completed and kept in a gymnasium (the former Premonstratensis Gymnasium in Oradea which functioned between 1850-1950, today the National College “Mihai Eminescu”).

As shown before, the flora samples were collected from almost all regions of Europe, among the identified collectors being names of a certain reputation at the time, some of them specialized in different areas. But there are locations whose names were unavailable or not mentioned, and shortcomings of this type occur when trying to identify the authors (see Appendix 2). For Western Europe (Spain, France, Belgium) we can mention the botanists Fredrich Sigmund Alioth, August Huguenin, Auguste Francois Le Jolis, Armand Thielens, for Germany and the former East Prussia, Paul Friedrich August Ascherson, Carl Birnbacher, Josef Braunstingel, C. F. H. Wimmer, and O. C. Schramm. In the Central European area (Switzerland, Austria, Northern Italy) there are Georg von Frauenfeld, Franz Hausmann, Vincenzo de Cesati, Michel Cottet, Giulio Andrea Pirona, Pietro Porta, Rupert Huter, Christian Christener, Franz Josef Lagger, Heinrich Zollinger, Jacob Juratzka, J. C. Equus a Pittoni, Robert Rauscher. In the Czech Republic (Moravia) there is A. Makovsky. For the western Balkan region and eastern continental Italy (Trieste, Croatia, Bosnia-Herzegovina, Serbia), we mention the names of Mutius von Tommasini, Wilhelm August Schneller, Liudjevit Farkas Vukotinovic and Ludwig Richter. For other areas that belonged to the former Austro-Hungarian Empire (in addition to the Austrian territories) there are the South Tyrol and the Western Balkans), such as the territories of today's Slovakia and Hungary, as well as the western and north-western Romania (Transylvania and Banat), we mention the names of botanists who collected and studied in that area, namely J. von Kovats and Jermy Gusztáv in Hungary, Ferdinand Schur, Victor Janka, Janos A. Heuffel in Banat, Dr. Wolfrer in Arad, Florian Porcius and Antal (Anton) Czetz in the area of Bistrița-Năsăud in Transylvania, a province studied also by Bedrich Veselsky and Adolf Steffek, a military doctor in Oradea. We also find the name of botanist Ludwig Richter, a collector on a wider area, covering Croatia, Slovakia and Switzerland, the Romanian Banat, and Odessa. The south-eastern European area (Greece, including Crete) and Asia Minor are represented by Th. H. H. von Heldreich, a German botanist who travelled extensively in Italy, Greece, Crete, and Asia Minor, and by Karl Georg Theodor Kotschy (Greece, Syria). ( see also figures 2 to 20). Some of the mentioned authors left behind, in addition to important botanical collections, many notes and studies related to the flora of the areas where they completed their collection, as can be seen in the bibliographical references (Ascherson P. 1864; Ascherson & Graebner 1896-1898, 1899; Christener 1863; Cottet M. 1875; Cottet & Castella 1891; Heuffel 1850, 1854, 1858; Huter R. 1872; Huter R., Porta P. & Rigo G. 1908; A. Huet du Pavillon 1853; Le Jolis 1847, 1859, 1860; Kotsch Th. 1843, 1845; Kovats G. 1844-1850; Janka 1858, 1862; Juratzka 1882; Porta P. 1879, 1912; Porcius F. 1868, 1893; Schlosser & Farkas-Vukotinovic 1857,

1869; Schur F. 1853, 1866; Steffek A. 1864; Thielens A. 1862, 1870; Tommasini M. 1846, 1875; Tommasini M. & Biasoletto B. 1833; Wimmer, Fr. 1832; Wimmer Fr. & Grabowski E. 1827-1829; Wimmer Fr. & Goeppert H. R. – 1844).

Other references related to the European flora (in addition to those mentioned in the first part) belong to authors whose contributions are representative for the material presented here. Some of them were published in the 19<sup>th</sup> century, the period when the herbarium was completed, while others were published in the 20<sup>th</sup> century, as follows. For the flora of Spain, France, Belgium and Switzerland, we mention the studies of Barrelier J. (1714), Bennett (1897), Bonnier & Layens (1894, 1909, 1912-1935), Briquet (1891-1895, 1893, 1894, 1897, 1902, 1910-1938), Burnat, Briquet, Cavillier (1892-1931); Christ H. (1885), Christ K. H. H. (1900), Coste (1900-1906), Della Torre (1920), Fernandez, Fournier (1928), Gautier & Flahault (1897), Raya, Perez, Mesa Joaquin Molero, Tendero Francesco Valle (1992). For the Italian territory (including the Southern Tyrol) and the Western Balkans (including Trieste) the works of Ambrosi (1854-1857, 1882, 1887), Rigo (1877), De Visiani (1826, 1842-1852, 1872-1882), De Visiani & Pancic (1862-1870) Frauenfeld (1855), Neilreich (1846-1851, 1868) are worth mentioning. For the northern region of Europe (Germany, Poland) and Central Europe (Austria, Hungary, the Czech Republic, Slovakia) we find important studies such as those of Wirtgen (1842), Gibbons & Brough (1996), Gombocz (1936), Grabowsky (1840), Grabowski, Günther, Wimmer (1824), Host (1827-1831), Halacsy (1896), Halacsy & Braun (1882), Javorka (1924-1925), Javorka & Csapody (1929-1934), Marchesetti (1895), Maurer, Mecenovic, Pittoni-Dannenfeldt (1975), Meusel, Jäger, Weinert (1965), Neilreich (1846-1851, 1859, 1866), Pax (1898-1908), Schott, Kotschy, Nyman (1854), Soo (1930, 1963), Soo & Javorka (1951), Szencsy, Hutter, Wierzbicki (1842), and Tauscher (1872). For the Romanian regions (Transylvania and the Romanian Banat) belonging to the same area, there are important studies on their vegetation, as well as some referring to the botanists of the time. Thus we discover here the name of Florian Porcius (1816-1906), a Romanian botanist, connoisseur of the vegetation of Rodna Mountains, as well as the name of Antal (Anton) Czetz (1801-1865), a botanist born in Dej but settled in Gants (Canciu, today Dumbrăveni, in Bistrița-Năsăud county), himself also a collector in the area of Rodna–Corongiș and Nimigea de Jos (Magyar Nemegeye). We can also add here the name of Haynald Lajos (1816-1891), the Roman Catholic Bishop of Transylvania in the period 1852-1864, who lived in Alba Iulia for a while and studied the vegetation of that region, ending up as the owner of a large private botanical collection, as well as the name of Janos Heuffel (1800-1857), a doctor living in Lugoj, where he studied the flora of Banat. In fact, I mentioned above the names of Viktor

Janka (a military officer in Oradea), Adolf Steffek (a military doctor in Oradea), Fr. Schur (a botanist and chemist who came to Sibiu as factory manager) and Bedrich (Friedrich) Veselsky, who collected plant samples in the Czech Republic, Slovakia and Transylvania (Turda). Among the studies, those authored by Rochel (1828), Simonkai (1878, 1881, 1890, 1891, 1893), Ascherson (1893), Kanitz (1890), Beldie & Pridvornic (1959), Beldie (1979), Borza (1931, 1956, 1963), Borza & Lupşa (1966), Ghişa (1971), Mititelu, Mureşean & Ladar (1988), Morariu (1976-1977), Nyarady & Soo (1952-1976), Paucă & Roman (1959), Pop (1967), Prodan (1923, 1946), Prodan & Buia (1961), Soo (1944, 1947), Marossy (1973), Hoff, Deluzarche & Combroux (2013) are worth mentioning. For Greece and the Near East we can mention the works of Heldreich (1876, 1883) and Halacsy (1900-1908).

We conclude by stating that the material we present is a historical botanical collection, named after Th. Schreiber; it represents a continuation of the first part (the bound, hard-covered component), that is the bundles and more precisely the first 13 bundles of 41, according to Figure 1. The author's true identity remained questionable from the very beginning of the discovery of the herbarium, although on some of the bundles there is mention of his name as a student in the fourth grade at the Gymnasium of the Premonstratensis Monastery in Oradea, today "Mihai Eminescu" National College (formerly High School No. 4 in Oradea), where it was found in 1955 in the laboratory for Natural Sciences and later transferred to the Museum in Oradea. In the article published in *Nymphaea* in 1973, where curator Ana Marossy made the announcement of enriching the botanical collection of the Țării Crişurilor Museum with "a 100 year-old herbarium", the question arose on the authorship of that herbarium by the very young student Schreiber, seeming less likely that "a grade school student would have been in correspondence with well-known botanists such as Heuffel, Porcius, Schur, Dr. Lagger, etc., or have had knowledge of large herbaria in Europe such as *Plantes des Pyrénées*, *Ex herbario Schrammii*, *L'erbario Armand Thielens*, etc.". There was even the supposition that "an amateur, in the person of an uncle or another relative, left or donated this herbarium to the student" (a supposition sustained, as the author argued, by the existence of another botanical collection with loose plants and missing labels, one per sheet, with collectors approximately the same as in the Schreiber collection, also discovered at High School No. 4 by the same T. Jurcsak and T. Beczy in the same year 1955). As this new herbarium, consisting of sheets with loose plants and labels, seems to be a more orderly botanical collection (yet anonymous), the author advocates that the Schreiber herbarium, in its bundled component, could be a re-arrangement of the plants in the former one (a herbarium that in our presentation is in fact the third component of the Schreiber herbarium, consisting of sheets

of botanized plants). Regarding the degree of preservation, it has been obvious when the herbarium was obtained by the Museum that the condition of specimens was rather variable, some of them being intact and well preserved, whereas others (60-70%) being damaged, torn, or destroyed by fungi and insects. So we can conclude that it had never been disinfected, as degradation was very advanced in some cases (Marossy 1973).

This publication includes species of Kingdom Fungi, Phylum Ascomycota (Class Lecanoromycetes) and Kingdom Plantae, Phylum Chlorophyta (Classes Ulvophyceae and Charophyceae), Phylum Bryophyta (Class Bryopsida), Phylum Tracheophyta, Infraphylum "Moniliformopses" (Class Polypodiopsida), respectively, Infraphylum "Radiatopses" (Class Spermatopsida, Subclass Magnoliidae), representing 329 taxa and belonging to 143 genera and 34 families.

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**Appendix 1.** Data on the labels of the herbarium sheet regarding several missing species

Species	Taxonomy	Location, data and author
<i>Tragus racemosus</i> (L.) ALL. – (n 8233 / fsc.- no number; p. 1/a) Ref.: FL. Pedem 2: 241 (1785);	Lilianae, Poales, Gramineae, Chloridoideae, Cynodonteae, <i>Tragus</i> ;	unidentified location, August 1895, no signature – Label: Herbario Flora Ilyricae, com M Tommasini
<i>Phalaris paradoxa</i> L. – (n 8233 / fsc. - no number; p. 1/b) Ref.: Sp. Pl. ed. 2 1665 1763.; Syn.: <i>Phalaris paradoxa</i> Rectz	Lilianae, Poales, Gramineae, Pooideae, Aveneae, Phalaridinae, <i>Phalaris</i> ;	unidentified location, no date, no signature – Label: Herbario Flora Ilyricae, com M Tommasini
<i>Psamma baltica</i> Roem & Schult – (n 8233 / fsc.- no number; p. 2/a) Ref.: SySt. Veg 2: 845 1817.;	Lilianae, Poales, Gramineae, Pooideae, <i>Psamma</i>	unidentified location (Colborg?!), 1851, leg. Bauck
<i>Crypsis aculeata</i> (L.) Aiton – (n 8233 / fsc. - no number; p. 6/b) Ref.: Hort Kew 1: 48 1789;	Lilianae, Poales, Gramineae, Pooideae, Aveneae, <i>Crypsis</i>	Romania, Transylvania, Bihor, Salard, Hodos, 10 September 1853, leg. Janka
<i>Leucanthemopsis alpina</i> (L.) Heywood ssp. <i>alpina</i> – (n 8233 / fsc. - no number; p. 7/b) Ref.: AnaL. InSt. Bot. Cavanilles 32(2): 182 (1975); Syn.: <i>Chrysanthemum alpinum</i> L.;	Asteranae, Asterales, Compositae, Asteroideae, Anthemideae, <i>Leucanthemopsis</i> inae, <i>Leucanthemopsis</i>	– Alps pedemont, no date, no signature
<i>Aster pyrenaeus</i> Desf ex DC – (n 8233 / fsc. - no number; p. 14/b) Ref.: Fl. Fr. ed. 3 4: 146 (1805);	Asteranae, Asterales, Compositae, Asteroideae, Astereae, <i>Aster</i> inae, <i>Aster</i> .	France, Pyrénées Centrales, Esquierry, no date, no signature
<i>Crepis pygmaea</i> L. – (n 8233 / fsc. - no number; p. 14/c) Ref.: Sp. Pl. ed. 1 805 (1753);	Asteranae, Asterales, Compositae, Cichorioideae, Lactuceae, <i>Crepidinae</i> , <i>Crepis</i> .	France, Pyrénées Centrales, Esquierry, 3 September 1852, leg. no signature, - Label. – Plantes des Pyrénées
<i>Agropyron</i> sp – (n 8233 / FN 3; p. 2/a) Ref.: Novi Commentarii Academiae Scientiarum Imperialis Petropolitanae 14(1): 539 1770.; Syn.: <i>Agriopyrum</i> ;	Lilianae, Poales, Gramineae, Pooideae, Triticeae, <i>Agropyron</i> ;	– Iter Syriacum 1855 – In Libano ad Bscherre et circa Cedretum., Crescit ad Bscherre pagum Mar Torkis, alt 5000 ped., 5 iuL. 1855, leg. Th Kotschy;

Lycopodium chamaecyparissus A Braun ex Mutel. – (n 8233 / fsc. II; p. 1/a) Ref.: Rhein FL. 36 36 1843.; Syn.: Diphasiastrum chamaecyparissus (A Braun ex Mutel) A Love & D Love;	Lycophytina, Lycopodiopsida, Lycopodiales, Lycopodiaceae, Lycopodium,	Belgium, Walloon region, Liege, Ververs, Ialhay, April. 1863, coll.: Donchier – Ex Herb. Armand Thielens, D S N Tirelmont (Belgium)
Asplenium adiantum-nigrum L. – (n 8233 / fsc. II; p. 1/b) Ref.: Sp. Pl. 2:1081 1753;	Euphyllrophytina, “Moniliformopses”, Polypodiopsida, Polypodiales, Aspleniaceae, Asplenium	Belgium, Walloon region, Liege, Argenteau, mai 1863, coll.: Cogniam - Ex Herb. Armand Thielens, D S N Tirelmont (Belgium)
Apium inundatum (L.) Rchb.f - (n 8233 / fsc. III; p. 1) Ref.: Icon FL. Germ 21: 9 (1863); Syn.: Helosciadium inundatum (L.) W. D. J. Koch; Sium inundatum (L.) Lam.;	Asteranae, Apiales, Umbelliferae, Apioideae, Apieae, Apium.	Belgium, Olerschat, July 1863, leg. nesemnat – Ex Herb. Armand Thielens, D S N , Tirelmont (Belgium)
Campanula cervicaria L. – (n 8233 / fsc. III; p. 12)Ref.: Sp. Pl. ed. 1 167 (1753); Syn.: Cervicaria nigra Burg.;	Asteranae, Asterales, Campanulaceae, Campanuloidae, Campanuleae, Campanuleae, Campanula	Romania, Bistrita-Nasaud, Nasaud (Nasod), no date, leg. Porcius (Porcini)
Smyrniium perfoliatum L. – (n 8233 / fsc. VI; p. 16/b) Ref.: Sp. Pl. ed. 1 262 (1753);	Asteranae, Apiales, Umbelliferae, Apioideae, Smyrnieae, Smyrniium.	Romania, Bihor, Oradea (In dumetis ad Magnovardinum), 10 May 1865, leg. Adolf Steffek - Ex flora hungarica
Crassula capitella Thunberg – (n 8233 / fsc. VI; p. 17/c) Ref.: Nova Acta Phys.-Med Acad Caes Leop.-CaroL. Nat Cur 6: 330 1778.; Syn.: Crassula capitellata DC.;	Magnoliidae ,Saxifragales , Crassulaceae , Crassuloidae, Crassula.	unidentified location, no date, no signature
Lactuca perennis L. – (n 8233 / fsc. IX; p. 8/a) Ref.: Sp. Pl. ed. 1 796 (1753)	Asteranae, Asterales, Compositae, Cichorioideae, Lactuceae, Lactucinae, Lactuca.	Belgium, Vallee de la Meuse, May 1862, leg.no signature, Herb Armand Thielens, D. S. N., Tirelmont (Belgium)

**Appendix 2.** Table botanical collectors identified from herbarium Schreiber - Part II

Full Name	Abbreviation	Alternative names	Dates	Countries, Provinces, areas
Alioth, Fredrich Sigmund	Alioth	F.S. Alioth	1819-1878	France, Spain, Germany, Italy, Switzerland
	Alone			France
	Arneth			
	Arlegelmaien			
Ascherson, Paul Friedrich August	Ascherson	Paul Ascherson	1834-1913	Germany
	Bauck			
Birnbacher, (Karl) Carl	Birnbacher	C. Birnbacher		Austria (Klagenfurt - Carinthia)
Braunstingel, Josef	Braunstingel	J. Braunstingel		Germany, Austria
Campo, Pedro del	DeL. Campo	P. del Campo	1852 ?	Spain
Cesati, Vincenzo, Barone de	Cesati; Ces.	Vincenzo de Cesati	1806-1883	Italy
	Cheffer			
	Chichale			France (Paris)
<u>Christener</u> , Christian	Christ.	Christian <u>Christener</u> ,	1810-1872	Switzerland
	Christ Notar.			Switzerland
	Cimbal-lairane			
Cottet, Michel	Cottet	M'eL. Cottet	1825-1896	Switzerland
Czetz, Anton (Antal)	Czetz	Anton Czetz, Antal Czetz	1801-1865	Hungary, Romania (Transylvania)
	DT			Serbia
Equs a Pittoni, J. C.	J. C. Equs a Pittoni	Josef Claudius Equitis Pittoni a Dannenfeldt	1797-1878	Austria, Siria
Frauenfeld, Georg Ritter von	Frauenfeld	Georg von Frauenfeld	1807-1873	Austria, Croatia
Fuchs, H.	H. Fuchs	H. Fuchs		
	Grabmayer			

Haynald, Cardinal. Stefan Franz Ludwig (Lajos)	Haynald	Haynald, Lajos	1816-1891	Hungary, Italy, Romania (Banat – Transylvania)
	Hartman			
Hausmann , Franz von Baron	Hausmann	F. Hausmann	1810-1878	Austria
H Haslinger	Hasliger			Austria
	Haun.			
Heldreich, Theodor Heirich Herman von	Heldreich; Heldr.	Theodor Heldreich; T.H.H Heldreich	1822-1902	Germany, Greece
Heuffel, Johann	HeuffeL.; Heuff.	Ioan Heuffel, Janos A Heuffel	1800-1857	Romania (Banat), Hungary
	Hillarof			
Huter, Rupert	Huter	Rupert Huter	1834-1919	Austria, Italy (Tirol), Spain
Huguenin, Auguste	Huguenin	A. Huguenin	1780-1860	France (Savoie)
Janka, Victor von	Janka	Victor Janka	1837-1890	Austria, Hungary, Romania (Trans)
Jermy, Gusztav	Jermy Gusztav	Jermy G.	1833-1900	Hungary
Le Jolis, Auguste Francois	Le Jolis	A. Fr Le Jolis,	1823-1904	France, Belgium, Austria
Juratzka, Jakob (Jacob)	J. Juratzka	Jacob Juratzka	1821-1878	Austria, Hungary, Romania (Trans)
	Kornike			Germany
Kotschy, Karl Georg Theodor	Kotschy	K.G.T Kotschy	1813-1866	Grecia, Siria
Kovats von Szent-Lelek, Julius	J v Kovats	Gyula Kovats, Julius Kovatss	1815-1873	Hungary, Austria
Lagger, Franz Josef	Dr. Lagger	F.-J Lagger	1802-1870	Switzerland, France,
Lehmann, C.B.	Lehmann	C.B. Lehmann	1811-1875	Germany

	A Makovsky			Czech Republic (Moravia)
Matz, Julius	Matz	Julius Matz	? - 1886	
	Morandell.			Italy (Tirol)
Ortmann, Joh.	Ortmann	Johan Ortmann		
	Pavai			Hungary,Romania (Transylvania)
	Pidaus			
Pirona, Giulio Andrea	Pirona	G.A Pirona	1822-1895	Italy
	Pivoll			
Porcius, Florian	Porcius	Florian Porcius; Porcoli;	1816-1906	Romania, (Transylvania)
Porta, Pietro	Porta	Pietro Porta	1832-1923	Italy
	Preuer			Croatia (Istria)
Raften, Nicomed Baron	Nicomed Raftern			Germany
Rheinfoseus, Jinnah	Rheinfoseus,	Jinnah Rheinfoseus,		
Richter, Ludwig (Lajos)	Richter L.	Ludwig Richter; Richter Lajos	1844-1917	Hungary, Slovakia, Switzerland, Rusia, Romania,
Rauscher, Robert	Rauscher.	Dr. Rauscher	1806-1890	N Austria
Rechsteiner, F.C.	Rechsteiner		1839	Switzerland
Roemer, C.	Roemer	Roemer C.		Germany
Siegmund, Wilhelm	Wilhelm Siegmund	W Siegmund	1821-1897	Czech Republic, Germany
Schneller ,Wilhelm August	Schneller	Wilhelm August Schneller	1807-1886	Czech Republic, Slovakia, Serbia (Voevodina)
Schramm, Otto Christoph	Schramm	O.C Schramm	1791-1863	Germany
Slakorosky, Al.	AL. Slakorosky			Czech Republic (Boemia)
Schur, Pfilipp Johann Ferdinand	Schur	Ferdinand Schur	1799-1878	Austria, Germany, Romania (Transylvania)
Steffek, Adolf	Adolf Steffek	Adolf Steffek	1834-?	Hungary,Romania (Transilvania)

Thielens, Armand	Thielens	Armand Thielens	1833-1878	Belgium
Tommasini, Muzio Giuseppe Spirito de'	M Tommasini; Tomm.	Mutius von Tommasini; M.G.S de Tommasini	1794-1879	Italy, Croatia, Bosnia -Herzegovina
	Vaize			Russia (Kalinin-grad)
Veselsky, Bedrich (Friedrich)	Veselsky	Bedrich Veselsky	1813-1866	Hungary, Romania (Transylvania)
Vukotinovic, Liudjevit Farkas	Lud Farkas-Vukotinovic; Vuk.;	Liudjevit Farkas Vukotinovic	1813-1893	Croatia
Wimmer, Christian Friedrich Heinrich	Wimmer, Wimm.	C.F H Wimmer	1803-1868	Germany (Silesia)
Wolfner, Wilhelm	Dr. Wolfner	Wolfner		Austria, Romania (Arad)
Zollinger, Heinrich	Zollinger	Heinrich Zollinger	1818-1859	Switzerland



**Fig. 1.** The bundles analyzed in Th. Schreiber Herbarium – Part II (Bundles 1 to 9 and four unnumbered bundles – UN.& u.n. one-two-three).



**Fig. 2.** The portrait of Florian Porcius (1816-1906) and sheets of specimens collected by him.



Viktor Janka (1837-1890)



Juratzka, Jakob (1821-1878)

Fig. 3. The portraits of V. Janka and J. Juratzka – sheets of specimens collected by them



Johann Heuffel (1800-1857)



Leg. C.B. Lehmann & Heuffel - Leg. Heuffel, Czetz & Huet du Pavillon -  
Leg. Steffek, Schur & Heuffel

**Fig. 4.** The portrait of J. Heuffel and the sheets of specimens collected by him (together with C.B. Lehmann, A. Czetz, Huet du Pavillon, Steffek & Schur).



Georg von Frauenfeld (1807-1873)



Lithographie - 1857



**Fig. 5.** The portraits of G. von Frauenfeld and the sheets of specimens collected by him (together with A. Huguenin, C. Cristener and Dr. Lager).



Paul Friedrich August Ascherson (1834 - 1913)



Auguste François le Jolis (1823-1904)

Fig. 6. The portraits of P.F.A. Ascherson and A. Fr. le Jolis and the sheets of specimens collected by them.



Mutius von Tommasini (1794-1879)



**Fig. 7.** The portrait of M. Tommasini and his bust of Triest, and the sheets of specimens collected by him.



Vincenzo Cesati (1806-1883)



Fig. 8. The portraits of V. Cesati and P. Porta - the sheets of specimens collected by them



Philipp Johann Ferdinand Schur (1799-1878)



Fig. 1. Portrait of Kotschy [from Schweinfath 1864].

Theodor Kotschy (1813-1866)



**Fig. 9.** The portraits of P.J.F. Schur and Th. Kotschy, and the sheets of specimens collected by them.



Rupert Huter (1834-1919)



Kováts Gyula (1815-1873)



Fig. 10. The portraits of R. Huter si Kováts Gyula, and the sheets of specimens collected by them.



Heinrich Zollinger (1818-1859)



leg. Zollinger & Tommasini



Ljudevit Vukotinović (1813-1893)



**Fig. 11.** The portraits of Heinrich Zollinger si al lui Ljudevit Vukotinović, and the sheets of specimens collected by them.



**Fig. 12.** The study of Armand Thiélens and sheets of specimens collected by him Label - Ex Herb. Armand Thiélens, D.S.N. - Tirlemont (Belgium).



Fig. 13. The studies of M'el Cottet and Franz von Hausmann and the sheets of specimens collected by them.



Fig. 14. Sheets of specimens collected by Antal (Anton) Czet.



Leg. Richter Ludwig (Lajos)



**Fig. 15.** Plant specimens collected by Ludwig Richter, A. Thielens, A. Huguenin, Vaize, Braunstingel, Eq. de Pittoni and Dr. R. Rauscher



Leg. Czetz & Dr. Wolfner



Leg. Chichale (Paris)



Leg. Schneller & Hillarof



Leg. Veselsky Bedrich



Leg. Matz



Leg. Christ Notar

**Fig. 16.** Plant specimens collected by A. Czetz, Dr. Wolfner, Chichale, Schneller, Hillarof, B. Veselsky, F. Matz and Christ Notar.



Leg. Adolf Steffek



Leg. Braunstingel &amp; A. Steffek



Leg. Juratzka &amp; Pivoll



Leg. Roemer

Fig. 17. Sheets of specimens collected by A. Steffek, J. Juratzka, Braunstingel, Pivoll and Roemer.



Leg. Wimmer



Leg. Haslinger



Leg. A. Makovsky



Leg. Nicomed Raffern

**Fig. 18.** Sheets of specimens collected by Wimmer, Haslinger, A. Makovsky and Nicomed Raffern.

Leg. Huguenin & AliothLeg. P. del Campo – com. AliothLeg. Jermj Gusztav & AloneLeg. A. Thielens & G.A. Pirona

**Fig. 19.** Sheets of specimens collected by P. del Campo, F.S. Alioth, Jermj Gusztav, Alone, A. Thielens, and G.A. Pirona.



Leg. Dr. Lager



Pfr. – Rehsteiner – Eichberg

Fig. 20. Sheets of specimens collected by Dr. Lager and Rehsteiner



**Fig. 21.** Botanized specimens having labels of herbaria famous at the time. 1. - Ex herbario Florae Illyricae – comm. M. Tommasini; 2. – Ex herbario Schrammii.- Brandenburg flora (and leg. Al. Makovsky); 3. - Ex C. Birnbacher herbario (and leg. Al. Makovsky); 4. - Flora de Rheinlande – C. Roemer, Namiest (and leg. Al. Makovsky).



**Fig. 22.** Botanized specimens having labels of herbaria famous at the time. 1. - Ex herb. Dr. Jos. Calas. Schlosser - Flora Croatica (together with specimens collected by Dr. Lager and Huguenin); 2. - Herbarium I. et R. Musaei Florentini; 3. - Wiener Tausch-Herbarium – (leg.: Joh. Ortmann); 4. - Ex Herbario Jermy G. (together with specimens collected by Huet du Pavillon and A. Steffek).

