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HERBARIUM COLLECTION BY SAVA PETROVIĆ IN THE HERBARIUM OF THE NATURAL HISTORY MUSEUM IN BELGRADE

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The General Herbarium of the Natural History Museum (BEO) includes part of the herbarium material collected by the great Serbian botanist Dr Sava Petrović (1839-1889). Considering the importance of S. Petrović's work for the botanical science of the 19th century, his herbarium has an important position from both a scientific and a museological standpoint. This herbarium collection has been conserved and inventoried. It was determined that it includes 648 herbarium sheet covers with 629 plant species, and the average age of the museum specimens is around 130 years.

Key words: Sava Petrović, Herbarium, Natural History Museum, Belgrade

INTRODUCTION

The General Herbarium of the Balkan Peninsula at the Natural History Museum in Belgrade (BEO) includes collections of mosses, fungi, lichens and higher plants. The largest collection is the Collection of Higher Plants,

with over 160,000 herbarium sheet covers and more than 500,000 specimens distributed in 2210 herbarium boxes. In addition to the “A collection” of type material from the treasury of herbarium at the Natural History Museum, the oldest collections prepared by the pioneers of Serbian botany, Dr Josif Pančić and Dr Sava Petrović, must also be mentioned. They were relocated to the Museum by Order of the Minister of Education and Church Activities in 1899. This Order required the transfer of one part of the collections at the Natural History Cabinet of the Great School (Lyceum) in Belgrade to the building of the then “Natural History Museum of Serbian Land”. This Order was fulfilled in 1903, eight years after the Museum was founded, and that part of Pančić and Petrović’s original material was the foundation of the present-day General Herbarium of the Balkan Peninsula. Considering the importance of Sava Petrović’s work in botany in the 19th century, his herbarium has a very special place in scientific and museological fields, so publishing the list of this collection will be useful for many botanists.

Dr Sava Petrović was born on January 14th 1839 at Šabac, where he completed elementary and middle school. After moving to Belgrade he finished high school and two years of a bachelor degree at the science-mathematics department of the Lyceum – the highest educational institution in Serbia at that time. As the best student he was noticed by Lyceum professor Dr Josif Pančić, who used all his authority to provide Sava Petrović with a state scholarship to study medicine and surgery in France. He presented his Doctoral Thesis entitled “De la Nostomanie” (Nostalgia) at the Faculty of Medicine on November 23rd 1866.

Upon returning to his homeland in 1867, he practiced medicine in Kruševac as a district physician. Under the influence of his teacher, Dr Josif Pančić, he started to collect and systematize the wild herbs from the vicinity of Kruševac. By the end of 1867 he transferred to Belgrade to the military hospital unit. He quickly built his career, reaching the highest level – colonel – and becoming the top military physician in Serbia.

Beginning in 1873 he was the court and personal physician of Prince, later King Milan Obrenović at whose urging he started to collect and study the flora of the vicinity of Niš. As a result of these studies, Sava Petrović wrote the important books “Flora of the vicinity of Niš” (1882) and “Additions to the flora of the vicinity of Niš” (1885).

He also wrote the first monograph in Serbian in the field of botany: “*Ramondas in Serbia and family Cyrtandraceae*” (1885).

As well, Sava Petrović was the first scientist in Serbia active in collecting and studying medicinal plants. His book “Medicinal plants of Serbia” (1883) was estimated by experts to be the first real work in Serbian

pharmacopoeia (science of preparing medicines) although the first official pharmacopoeia was done in 1881.

Sava Petrović had a crucial role in establishing the present-day Botanical Garden in Belgrade, and also helped the botanical gardens in Niš and other towns in Serbia by sending them saplings grown at the Botanical Garden in Belgrade. Besides the saplings for town and school botanical gardens, Sava Petrović also used to send herbarium collections to college-preparatory high schools throughout Serbia (Sotirov 1985; Jančić *et al.* 2009.).

Dr Sava Petrović was among 15 prominent Belgrade physicians who established the Serbian Medical Society on May 27th 1872.

As he was active in botany and medicine simultaneously, in addition to botanical work he published numerous scientific works in the field of medicine.

Sava Petrović died on January 20th 1889. He was buried in Belgrade at Novo Groblje Cemetery, at Alley 8, close to the main gate.

He left almost all of his properties and deeds to the country. One part of his legacy – the rich botanical library and a herbarium of inestimable value – was included in his will as a gift to the First Gymnasium in Niš (today Gymnasium “Stevan Sremac”). The other part of the property, house, land plot and a sum of money were left as a legacy to create a foundation to award scientists studying the flora of Serbia. However, the fate of the botanical library and herbarium remains a mystery, as today they are not situated in Niš and their whereabouts are unknown, and since the First World War there has been no mention of them. Certain herbarium specimens collected by S. Petrović are currently in the Herbarium of the Botanical Garden Jevremovac in Belgrade, as well as in herbaria of natural history museums throughout Europe, where he had sent them for identification and exchange (Sotirov 1985).

Sava Petrović's legacy in botanical work is enormous. While collecting and studying flora in the vicinity of Niš, he described ten plant taxa new for science which are still considered botanically valid, while there are eight taxa that have kept their original names without any change: *Genista nissana* Petrović, *Nonea pallens* Petrović, *Hypericum boissieri* Petrović, *Stachys milanii* Petrović, *Cyanus nyssanus* (Petrović) Soják, *Edraianthus serbicus* Petrović, *Orobanche serbica* G. Beck. & Petrović, *Ramonda nathaliae* Pančić & Petrović, *Primula acaulis* (L.) Hill f. *alba* Petrović, *Hypochaeris maculata* L. subsp. *pelivanovicii* (Petrović ex Velen.) Hayek. (Randelović 1985; Jančić *et al.* 2009).

In the book “Flora of the vicinity of Niš” (Petrović 1882) he cited 100 families, 502 genera and around 1,500 plant species, including 60 new for

the flora of Serbia and 5 completely new for science. The most prominent among them is unquestionably the newly described endemorelict species *Ramonda nathaliae*, which was named by Petrović after Queen Natalija, wife of his good friend King Milan.

In the book "Additions to the flora of the vicinity of Niš" (Petrović 1885) there are 160 plants cited as new for the flora of the vicinity of Niš, and Petrović considered many of them (19) new also for science. This book also included errata on some plant species for which the description in the first book contained some mistakes.

Sava Petrović recorded 80 plant species new for the flora of Serbia, representing a very large contribution to Serbian botanical knowledge (Randelović 1985).

MATERIAL AND METHODS

The process included conservation and preventive protection of herbarium material in the collection by Sava Petrović. Prior to conservation, the herbarium was stored in two large herbarium boxes, greatly damaged by age, frequent relocation and poor storage conditions. The herbarium sheets were much damaged (yellow, dirty, crumpled, in some places torn). The herbarium specimens were generally in good condition except for a smaller number of specimens which were badly damaged. However, the greatest problem was that these boxes were too small for all the herbarium sheets, causing damage to the contents.

The herbarium specimens were cleaned, fixated to new sheets and placed into new herbarium sheet covers. During the following re-inventory and labeling of herbarium specimens, new labels were added to the old ones, with original data and new inventory numbers.

Although the original scientific (Latin) names were also transcribed to new inventory labels, classification and proper determination of each taxon were checked. If the identification was wrong, after the revision of the material the appropriate taxon name was entered on the label. If the Latin name on the original label was still valid but now considered a synonym (Tutin *et al.* 1964-1980, 1993, Josifović 1970-1977, Greuter *et al.* 1984-1989, Sarić & Diklić 1986, Sarić 1992), the new label includes the modern name of the taxon as well. The herbarium material processed in this way was then distributed into new herbarium boxes.

During the process of arranging the Herbarium Collection by Sava Petrović, complete photographic documentation was prepared. Herbarium specimens were photographed before and after conservation.

In the following chapter, the list of herbarium exsiccates includes classification and order of families according to Tutin *et al.* (1964-1980, 1993). The entries for individual exsiccates first include the name on the original label. If names were wrong or represented synonyms, standard symbols were used for explanation (“-” false identification or use of name; “≡” isotypic synonyms; “=” heterotypic synonyms). The valid names were marked with bold letters.

RESULTS AND DISCUSSION

List of herbarium exsiccates with revised nomenclature

Fam. **Isöetaceae** Dumort

Isöetes tenuissima Boreau ≡ ***Isöetes velata*** A. Braun
subsp. ***tenuissima*** (Boreau) O. Bolòs & Vigo
02-001 France

Fam. **Osmundaceae** Bercht. & J. Presl

Osmunda regalis L.
02-002 France: Esterelle near Nice, March 1882.

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

Polypodium phegopteris L. = ***Phegopteris connectilis*** (Michx) Watt
02-003 Serbia.

Fam. **Dennstaedtiaceae** Pichi-Serm.

Pteris aquilina L. ≡ ***Pteridium aquilinum*** (L.) Kuhn
02-004 Serbia.

Fam. **Adiantaceae** (C. Presl) Ching

Adiantum capillus-veneris L.
02-005 France: Nice, December 1880.

Fam. **Blechnaceae** (C. Presl) Copel.

Blechnum spicant (L.) Roth
02-006 Serbia.

Fam. **Aspleniaceae** Mett. ex Frank

Asplenium fissum Kit. ex Willd.
02-007 Serbia: Mt Suva planina.
Asplenium viride Hudson
02-008 France: Cannes; on the hills.

Aspidium aculeatum (L.) Swartz (L.) Roth ≡ *Polystichum aculeatum* (L.)

Roth

02-011 Serbia: in the woods.

Asplenium filix-femina (L.) Bernh. ≡ *Athyrium filix-femina* (L.) Roth

02-009 France: Cannes, on the hills.

Cystopteris fragilis (L.) Bernh.

02-012 Serbia: Mt Suva planina.

Polystichum filix-mas (L.) Roth ≡ *Dryopteris filix-mas* (L.) Schott

02-010 Serbia: in the woods.

Fam. **Euphorbiaceae** Juss.

Euphorbia baselicis Ten. = *Euphorbia barrelieri* Savi

subsp. *thessala* (Form.) Bornm.

02-022 In the vineyards.

Euphorbia dendroides L.

02-019 France: Nice, March 1881.

Euphorbia exigua L.

02-018 France: Nice, April 1881.

Euphorbia falcata L.

02-023 Serbia: around Niš; by the cultivated fields.

Euphorbia glareosa MB. = *Euphorbia nicaeensis* All.

subsp. *glareosa* (M. Bieb.) A. R. Sm.

02-021 By rocky areas.

Euphorbia paralias L.

02-024 France: Nice; by the sea, December 1880.

Euphorbia peplus L.

02-017 France: Nice, December 1880.

Euphorbia peploides Gouan = *Euphorbia peplus* L.

02-016 France: Nice, March 1881.

Euphorbia saxatilis Jacq.

02-015 Austria.

Euphorbia segetalis L.

02-014 France: Nice, December 1880.

Euphorbia graeca Boiss. & Spruner = *Euphorbia taurinensis* All.

02-020 By rocky areas.

Euphorbia virgata Waldst. & Kit.

02-013 Serbia: around Niš; by meadows.

Fam. **Chenopodiaceae** Vent.

Atriplex halimus L.

02-038 France: Nice, March 1881.

Atriplex hortensis L.

02-037 Serbia: around Niš; on the trenches.

Atriplex laciniata L.

02-036 In the gardens.

Atriplex patula L.

02-035 In the gardens.

Atriplex tatarica L.

02-034 Serbia: Belgrade, August 1882.

Atriplex hastata L. - *Atriplex tatarica* L.

02-331 Serbia: Mt Suva planina.

Chenopodium album L.

02-030 Serbia: around Niš; in the gardens.

Chenopodium ficifolium Sm.

02-032 Serbia: around Niš; in the gardens.

Chenopodium hybridum L.

02-033 In the gardens.

Chenopodium murale L.

02-031 Serbia: around Niš; near roads.

Chenopodium opulifolium Schrader ex Koch & Ziz

02-029 Serbia: around Niš; in the gardens.

Chenopodium polyspermum L.

02-028 In the gardens.

Polycnemum arvense L.

02-027 Serbia: around Niš; by meadows.

Fam. **Amaranthaceae** Juss.

Amaranthus deflexus L.

02-040 France: Nice, november 1882.

Amaranthus blitum L. = *Amaranthus lividus* L.

02-039 In the gardens.

Fam. **Caryophyllaceae** Juss.

Alsine setacea (Thuill.) Mert. & Koch ≡ *Minuartia setacea* (Thuill.) Hayek

02-067 The arid areas.

Alsine verna (L.) Bartl ≡ *Minuartia verna* (L.) Hiern

02-065 Serbia: around Niš; on the rocks.

Alsine viscidula Thouin ex Nyman - *Minuartia viscosa* (Schreber)

Schinz & Thell.

02-066 By sandy areas.

Arenaria aggregata (L.) Loisel.

02-055 France.

Arenaria balearica L.

02-053 Corse.

Arenaria conimbricensis Brot.

02-054 Portugal.

Arenaria controversa Boiss.

02-048 France.

Arenaria hispida L.

02-049 France.

Arenaria purpurascens Ramond ex DC.

02-050 France: Mt Pyrenees.

Arenaria serpyllifolia L.

02-051 In the gardens.

Arenaria triflora L.

02-052 France.

Bufonia macrosperma Gay ≡ *Bufonia paniculata* F. Dubois

02-085 The arid areas.

Cerastium banaticum (Rochel) Heuffel

02-064 Serbia: by rocky areas, July 1879.

Cerastium brachypetalum Desp.ex Pers.

02-063 By the cultivated fields.

Cerastium viscosum L. = *Cerastium fontanum* Baumg.

subsp. *vulgare* (Hartman) Greuter & Burdet

02-062 By the cultivated fields.

Dianthus armeria L.

02-083 Near roads.

Dianthus barbatus L.

02-081 Serbia: Mt Suva planina.

Dianthus carthusianorum L.

02-080 Serbia: around Niš; on the hills.

Dianthus atrorubens All. = *Dianthus carthusianorum* L.

02-082 By meadows.

Dianthus graniticus Jordan

02-078 France.

Dianthus pallens Sm. ≡ *Dianthus monadelphus* Vent.

subsp. *pallens* (Sm.) Greuter & Burdet

02-076 Serbia: around Niš; sandy places.

Dianthus petraeus Waldst. & Kit.

02-075 Serbia: around Niš; on the rocks.

Dianthus noeanus Boiss. ≡ ***Dianthus petraeus*** Waldst. & Kit. subsp. ***noeanus*** (Boiss.) Tutin

02-077 By rocky areas.

Dianthus attenuatus Sm. = ***Dianthus pyrenaicus*** Pourret

02-084 France: Mt Pyrenees.

Dianthus catalaunicus Pourret ≡ ***Dianthus pyrenaicus*** Pourret subsp. ***catalaunicus*** (Willk. & Costa) Tutin

02-079 Spain.

Dianthus superbus L.

02-073 In the woods.

Gypsophila repens L.

02-071 France: Schatberg, August 1881.

Herniaria glabra L.

02-041 Near roads.

Herniaria hirsuta L.

02-042 Serbia: around Niš; by fields.

Herniaria incana Lam.

02-043 By sandy areas.

Moehringia pentandra Gay

02-058 France: Esterelle - April 1882.

Moehringia trinervia (L.) Clairv.

02-059 Serbia: around Niš; by rocky areas.

Moenchia mantica (L.) Barth.

02-061 By the cultivated fields.

Malachium aquaticum (L.) Fries ≡ ***Myosoton aquaticum*** (L.) Moench

02-070 Serbia: around Niš; next to pools.

Paronychia cymosa (L.) DC.

02-044 France

Paronychia capitata (L.) Lam.

02-045 On the rocks.

Dianthus prolifer L. ≡ ***Petrorhagia prolifera*** (L.) P. W. Ball & Heywood

02-074 By fields.

Gypsophila saxifraga L. ≡ ***Petrorhagia saxifraga*** (L.) Link

02-072 Serbia: around Niš.

Polycarpon alsinifolium (Biv.) DC.

02-047 France: Toulon.

Polycarpon tetraphyllum (L.) L.

02-046 France: Nice, January 1881.

Sagina nodosa (L.) Fenzl.

02-060 Czech: Francensbad, August 1880.

Saponaria bellidifolia Sm.

02-087 Serbia: Mt Suva planina, Trem [“Milanov vrh” Peak], July 1879.

Saponaria glutinosa M. Bieb.

02-086 Serbia: around Niš; rocky areas.

Silene armeria L.

02-097 Serbia: around Niš; in the vineyards.

Silene ciliata Pourret

02-098 France: Mt Pyrenees.

Silene conica L.

02-099 Serbia: around Niš; near roads, May 1879.

Silene dichotoma Ehrh.

02-100 By the cultivated fields.

Silene frivaldszkyana Hampe

02-089 By rocky areas.

Silene gallica L.

02-090 France: Nice, March 1881.

Silene littoralis Jordan = ***Silene gallica*** L.

02-093 Spain.

Silene italica (L.) Pers.

02-092 In the woods.

Silene quadrifida (L.) L. - ***Silene pusilla*** Waldst. & Kit.

02-094 Serbia: Mt Suva planina.

Silene sendtneri Boiss.

02-096 Serbia: Mt Suva planina.

Silene sericea All.

02-095 Italy: Venice, April 1882.

Silene inflata Sm. = ***Silene vulgaris*** (Moench) Garcke

02-091 By meadows.

Spergula arvensis L.

02-056 France, August 1880.

Spergularia rubra (L.) J. S. Presl. & C. Presl.

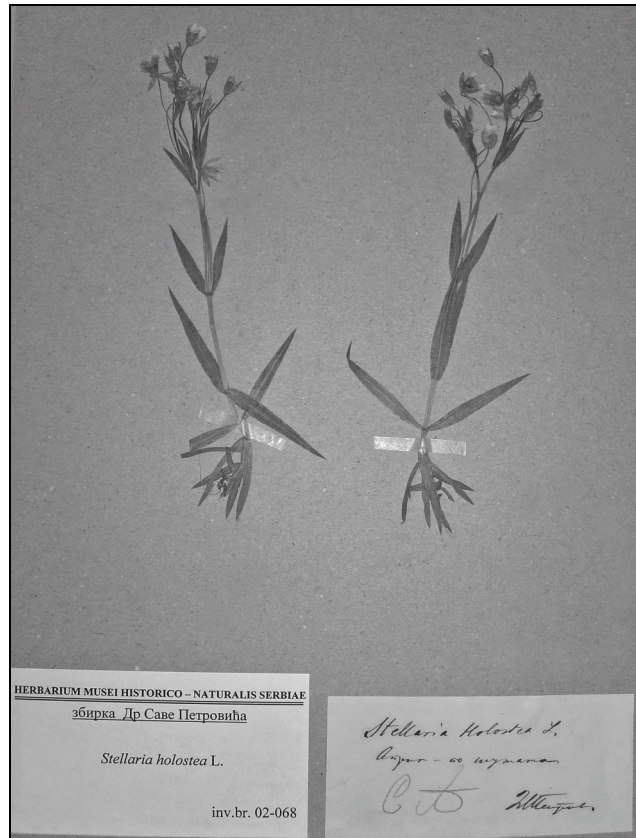
02-057 Serbia: around Niš; near roads.

Stellaria holostea L. (Fig. 1)

02-068 In the woods.

***Stellaria media* (L.) Vill.**

02-069 Serbia: around Niš; in the gardens.

Fig. 1. - *Stellaria holostea* L.

Saponaria vaccaria L. \equiv *Vaccaria hispanica* (Mill.) Rauchert
02-088 By the cultivated fields.

Fam. **Paeoniaceae** Rudolphi***Paeonia peregrina*** Miller

02-101 Serbia: around Belgrade.

Fam. **Ranunculaceae** Juss.***Aconitum lycoctonum*** L.

02-107 Serbia: Mt Suva planina.

Adonis flammea Jacq.

02-120 Serbia: around Niš; by rocky areas.

Anemone fulgens Gay

02-108 France: Nice, February 1881.

Anemone coronaria L. (Fig. 2)

02-110 France: Nice, February 1881.

Anemone cyanea Risso = *Anemone coronaria* L.

02-112 France: Nice, February 1881.

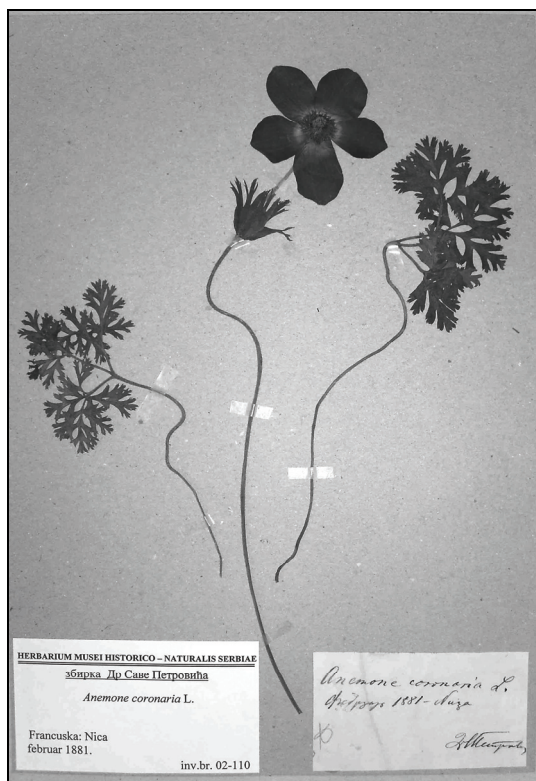


Fig. 2. - *Anemone coronaria* L.

Anemone pavonina Lam.

02-113 France: Nice, February 1881.

Anemone ranunculoides L.

02-109 Serbia: around Niš; Igrište; 26. March 1879.

Aquilegia amaliae Heldr. ex Boiss. - *Aquilegia grata* F. Maly ex Zimmeter
subsp. *nikolicii* Niketić

02-105 Serbia: May 1880.

Aquilegia vulgaris L.

02-106 Serbia: May 1880.

Anemone hepatica L. = *Hepatica nobilis* Schreber

02-111 By rocky areas.

Isopyrum thalictroides L.

02-103 Serbia: Niš, February 1879.

***Ranunculus arvensis* L.**

02-115 Serbia: around Niš; by grains.

***Ranunculus auricomus* L.**

02-116 Serbia: around Niš; in the woods.

***Ranunculus lingua* L.**

02-117 Serbia: Belgrade; Makiš, June 1880.

***Ranunculus millefoliatus* Vahl.**

02-118 East Serbia.

***Ranunculus polyanthemos* L.**

02-119 In the gardens.

***Thalictrum angustifolium* L. = *Thalictrum lucidum* L.**

02-114 By meadows.

Fam. **Ceratophyllaceae** Gray***Ceratophyllum demersum* L.**

02-121 On the pools.

Fam. **Papaveraceae** Juss.***Chelidonium majus* L.**

02-123 Serbia: in Sićevo, 1879.

***Hypecoum grandiflorum* Benth. - *Hypecoum pseudograndiflorum* Petrović**

02-124 Serbia: in the town of Niš, April 1879.

***Papaver dubium* L.**

02-122 Serbia: around Niš, May 1879.

Fam. **Fumariaceae** DC.***Corydalis pumila* (Host) Rchb.**

02-125 In the woods.

***Corydalis solida* (L.) Clairv.**

02-126 In the woods.

***Fumaria vagans* Jord. = *Fumaria bastardi* Boreau**

02-132 France.

***Fumaria capreolata* L.**

02-131 France: Nice, January 1881.

***Fumaria anatolica* Boiss. = *Fumaria kralikii* Jordan**

02-128 Serbia: Vis near Niš, June 1880.

***Fumaria major* Badaro (Fig. 3)**

02-133 France: Nice, January 1881.

***Fumaria officinalis* L.**

02-130 In spring by the cultivated fields and near roads.

Fumaria parviflora Lam.

02-127 France. vicinity of Nica, March 1881.

Fumaria vaillantii Loisel.

02-129 Serbia: Niš; near roads.

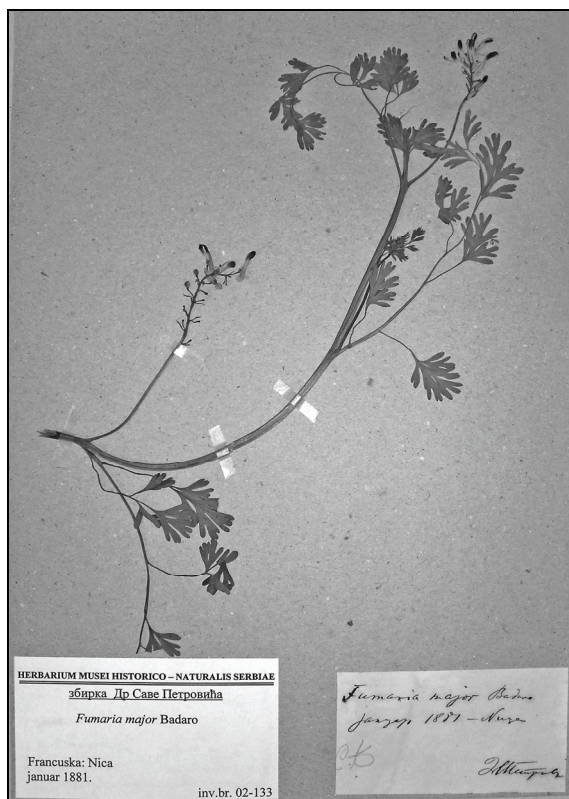


Fig. 3. - *Fumaria major* Badaro

Fam. **Brassicaceae** Burnett

Sisymbrium alliaria (L.) Scop. = *Alliaria petiolata* (Bieb.) Cav. & Gran.

02-134 In the woods.

Alyssum alpestre L.

02-142 France.

Alyssum calycinum L. = *Alyssum alyssoides* (L.) L.

02-143 On the fields.

Alyssum ruderale Jord. = *Alyssum alyssoides* (L.) L.

02-140 France.

Alyssum rhodanense Jord. & Fourr. = *Alyssum montanum* L.

subsp. **montanum**

02-144 France.

Arabis procurrens Waldst. & Kit.

02-139 Serbia: around Niš.

Vesicaria corymbosa Griseb. ≡ ***Aurinia corymbosa*** Griseb.

02-146 France: Paris botanical garden.

Alyssum saxatile L. ≡ ***Aurinia saxatilis*** (L.) Desv.

02-141 On the rocks.

Berteroa incana (L.) DC.

02-145 By meadows.

Brassica napus L.

02-649 Serbia: around Niš, April 1879.

Thlaspi bursa-pastoris L. ≡ ***Capsella bursa-pastoris*** (L.) Medicus

02-155 In the gardens.

Dentaria digitata Lam. = ***Cardamine pentaphyllos*** (L.) Crantz

02-138 Switzerland: Mt Salere, April 1881.

Diplotaxis eruroides (L.) DC.

02-147 France: Nice, January 1881.

Hutchinsia petraea (L.) R. Br. ≡ ***Hornungia petraea*** (L.) Reichenb.

02-148 France: Nice, March 1881.

Iberis bernardiana Gren. & Gordon

02-150 Spain: Mt Pyrenees.

Iberis carnosa Willd.

02-151 Spain: Mt Pyrenees.

Iberis petraea Jordan. (Fig. 4)

02-149 Spain.

Myagrum perfoliatum L.

02-104 Near roads.

Nasturtium officinale R. Br.

02-137 Serbia: around Niš; on the fields.

Neslia paniculata (L.) Desv.

02-157 Serbia: around Niš; by crops.

Rapistrum perenne (L.) All.

02-102 Serbia: meadows beside Danube.

Nasturtium lippizense (Wulfen) DC. ≡ ***Rorippa lippizensis*** (Wulf.) Reichenb.

02-136 Serbia: Mt Zlatibor.

Sisymbrium columnae Jacq. = ***Sisymbrium orientale*** L.

02-135 On the trenches.

Thlaspi alliaceum L.

02-152 In the vineyards.

Thlaspi virens Jordan. = *Thlaspi caerulescens* J. & C. Presl.
subsp. *virens* (Jordan) Hooker fil.
02-156 France.

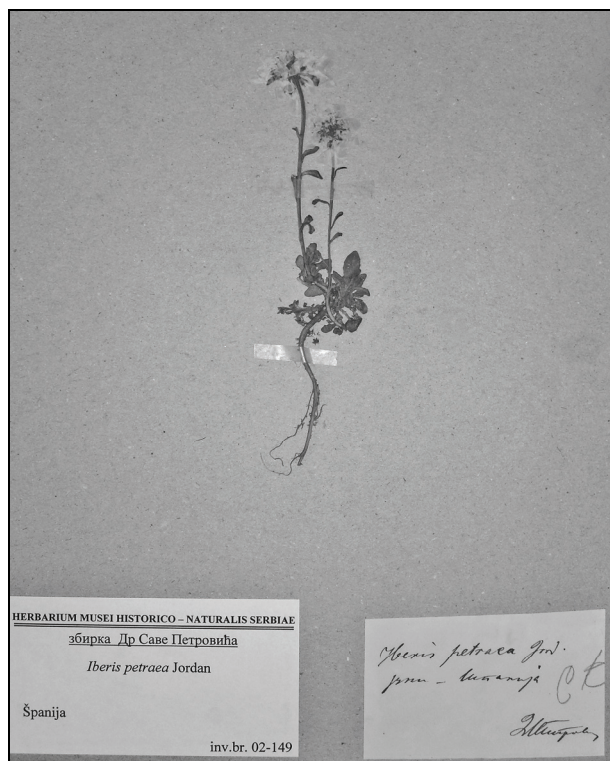


Fig. 4. - *Iberis petraea* Jordan

Thlaspi perfoliatum L.
02-153 By the cultivated fields.

Thlaspi virgatum Gren. & Gordon
02-154 France.

Fam. **Cistaceae** Juss.

Helianthemum libanotis Willd. ≡ *Cistus libanotis* L.
02-165 France.

Cistus monspeliensis L. (Fig. 5)
02-158 France: Cannes, March 1882.

Cistus salvifolius L.
02-159 France: Nice, April 1882.

Helianthemum fumana (L.) Miller = *Fumana procumbens* (Dunal)
Gren. & Gordon
02-166 Serbia: by rocky areas.

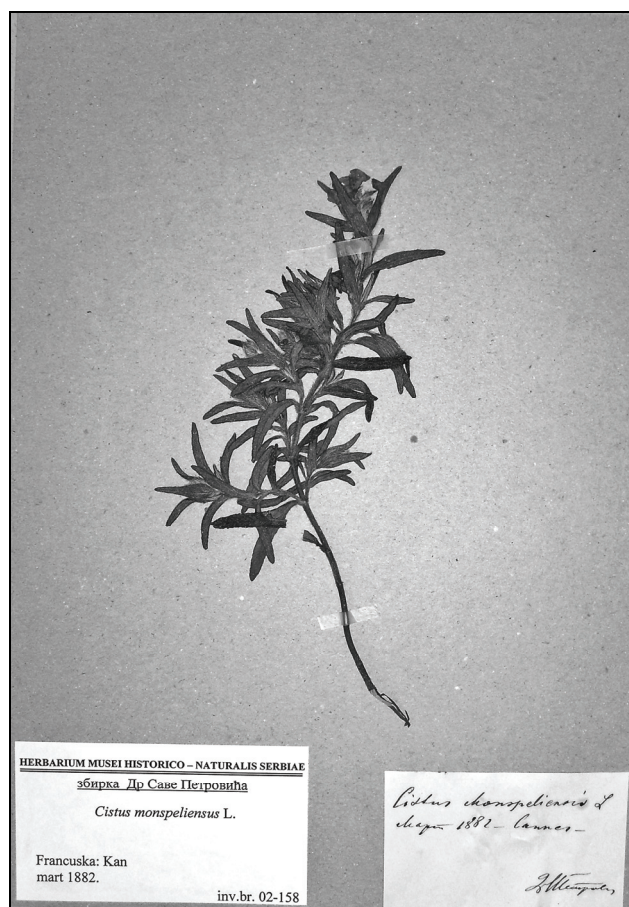


Fig. 5. - *Cistus monspeliensis* L.

Helianthemum glutinosum (L.) Pers. ≡ *Helianthemum asperum*
Lag. ex Dunal
02-169 France: Nice, April 1881.

Helianthemum laevipes (L.) Pers. ≡ *Helianthemum croceum* (Desf.) Pers.
02-168 France: Cannes, April 1882.

Helianthemum vulgare Gaertner = *H. nummularium* (L.) Miller
subsp. *nummularium*
02-160 Serbia: around Niš, July 1879.

Helianthemum oelandicum (L.) DC.
02-164 Serbia: around Niš; rocky places; July 1879.

Helianthemum salicifolium (L.) Miller
02-163 France: Cannes, April 1882.

Helianthemum umbellatum (L.) Spach
02-161 France.

Helianthemum guttatum (L.) Miller ≡ *Tuberaria guttata* (L.) Fourr.
02-167 France: Cannes, April 1882.

Helianthemum tuberaria (L.) Miller = *Tuberaria lignosa* (Sweet) Samp.
02-162 France: Cannes, April 1881.

Fam. **Tamaricaceae** Link

Myricaria germanica (L.) Desv.
02-171 Spain: Vintimilla, March 1881.

Tamarix africana Poiret
02-170 France: Nice, March 1881.

Fam. **Violaceae** De Cand.

Viola alba Besser
02-179 In the woods.

Viola canina L.
02-180 In the woods.

Viola elatior Fries
02-174 Serbia: around Niš.

Viola hirta L.
02-181 In the woods.

Viola nana (DC.) Gordon = *Viola kitaibeliana* Schult.
02-176 France.

Viola mirabilis L.
02-177 By rocky areas.

Viola odorata L.
02-175 France: Nice, January 1881.

Viola suavis M. Bieb.
02-173 In the woods.

Viola sylvestris Lam. = *Viola reichenbachiana* Jordan ex Boureau
02-172 Rocky areas.

Viola tricolor L.
02-178 Serbia: around Niš; by the cultivated fields; April 1879.

Fam. **Hypericaceae** Juss.

Hypericum atomarium Boiss. = *Hypericum annulatum* Moris
subsp. *annulatum*
02-188 Serbia: Banjsko hill near Niš; June 1879.

Hypericum australe Ten.
02-183 France: Nice, April 1881.

***Hypericum hircinum* L.**

02-251 Corse.

***Hypericum hyssopifolium* Chaix**

02-190 France.

***Hypericum linarifolium* Vahl.**

02-185 France.

***Hypericum nummularium* L.**

02-184 France: Savoja.

***Hypericum perforatum* L.**

02-189 By meadows.

***Hypericum pulchrum* L.**

02-182 France: environment of Paris.

***Hypericum rochelii* Griseb. & Schenk**

02-187 Serbia: around Niš; on the hills.

***Hypericum quadrangulum* L. = *Hypericum tetrapterum* Fries**

02-186 Serbia: Mt Suva planina, June 1879.

Fam. **Malvaceae** Juss.***Hibiscus trionum* L.**

02-191 Serbia: around Niš; by leas.

***Malva moschata* L.**

02-194 Serbia: Mt Suva planina.

***Malva vulgaris* Fries = *Malva neglecta* Wallr.**

02-192 In the gardens.

***Malva sylvestris* L.**

02-193 Near roads.

Fam. **Tiliaceae** Juss.***Tilia microphylla* Vent. ≡ *Tilia cordata* Miller**

02-195 On the hills.

***Tilia argentea* Desf. ex DC. = *Tilia tomentosa* Moench**

02-196 In the woods.

Fam. **Linaceae** Gray***Linum austriacum* L.**

02-205 Serbia: around Niš, 1879.

***Linum campanulatum* L.**

02-204 France.

***Linum capitatum* Kit. ex Schultes**

02-206 Serbia: Mt Suva planina, July 1879.

***Linum catharticum* L.**

02-203 By meadows.

***Linum flavum* L.**

02-200 Serbia: Belgrade; Topčider, May 1878.

***Linum hirsutum* L.**

02-201 Serbia: Topčider, May 1878.

***Linum hologynum* Reichenb.**

02-198 Serbia: around Niš.

***Linum strictum* L.**

02-199 France: Nice - April 1881.

***Linum corymbulosum* Reichenb. ≡ *Linum strictum* L.**subsp. *corymbulosum* (Reichenb.) Rouy

02-202 By meadows.

***Linum tenuifolium* L.**

02-197 By meadows.

Fam. **Oxalidaceae** R. Br.***Oxalis acetosella* L.**

02-208 Po šumovitim brdima.

***Oxalis lybrica* Willk. & Lange = *Oxalis pes-caprae* L.**

02-207 France: Nice, February 1881.

Fam. **Geraniaceae** Juss.***Erodium cicutarium* (L.) L`Héritier**

02-219 Serbia: po zidovima.

***Erodium malacoides* (L.) L`Héritier**

02-218 France: Nice, January 1881.

***Geranium asphodeloides* Burm.fil.**

02-217 Serbia: around Niš; in the woods.

***Geranium cinereum* Cav.**

02-216 Spain: Mt Pyrenees.

***Geranium lucidum* L.**

02-215 By rocky areas.

***Geranium molle* L.**

02-214 By meadows.

***Geranium purpureum* Vill.**

02-213 Serbia: by rocky areas.

***Geranium pusillum* L.**

02-212 Serbia: around Niš; in the gardens.

***Geranium sanguineum* L.**

02-211 In the woods.

***Geranium sylvaticum* L.**

02-210 Italy: August 1881.

***Geranium tuberosum* L.**

02-209 France: Antibes, March 1881.

Fam. **Polygalaceae** R. Br.

***Polygala alpestris* Reichenb.**

02-226 Serbia: Mt Suva planina.

***Polygala comosa* Scuhr**

02-223 Serbia: Niš; by meadows.

***Polygala neglecta* Kern. = *Polygala major* Jacq.**

02-225 Hungary.

***Polygala nicaeensis* Risso ex Koch**

02-224 France: Nice, March 1881.

***Polygala rosea* Desf. (Fig. 6)**

02-221 France.



Fig. 6. - *Polygala rosea* Desf.

Polygala vulgaris L.

02-220 By meadows.

Polygala vayredae Costa

02-222 Spain; Mt Pyrenees.

Fam. **Aceraceae** Juss.

Acer campestre L.

02-231 In the woods.

Acer monspessulanum L.

02-230 On the hills.

Acer opulifolium Chaix ≡ ***Acer opalus*** Mill.

02-229 France: on the mountains around Nice; April 1882.

Acer pseudoplatanus L.

02-228 Serbia: Mt Suva planina.

Acer tataricum L.

02-227 In the woods.

Fam. **Saxifragaceae** Juss.

Chrysosplenium alternifolium L.

02-241 Serbia: Mt Suva planina.

Chrysosplenium oppositifolium L.

02-240 France.

Saxifraga bulbifera L.

02-236 Serbia: on the hills around Niš.

Saxifraga granulata L. - ***Saxifraga bulbifera*** L.

02-235 Serbia: on the hills around Niš.

Saxifraga rocheliana Sternb. = ***Saxifraga marginata*** Sternb.

02-233 Serbia: Mt Suva planina.

Saxifraga aizoon Jacq. = ***Saxifraga paniculata*** Miller

02-237 Serbia: Mt Suva planina.

Saxifraga rotundifolia L.

02-232 On the rocks.

Saxifraga squarrosa Sieber

02-238 Austria (gornja).

Saxifraga tridactylites L.

02-239 Serbia: around Niš by rocky areas.

Saxifraga petraea L. – ***Saxifraga tridactylites*** L.

02-234 By rocky areas.

Fam. **Grossulariaceae** DC.*Ribes alpinum* L.

02-243 Serbia: Mt Suva planina.

Ribes grossularia L. = *Ribes uva-crispa* L.

02-242 Serbia: Mt Suva planina.

Fam. **Rosaceae** Juss.*Agrimonia eupatoria* L.

02-270 By meadows.

Alchemilla alpina L.

02-267 Switzerland: Mts Alps.

Alchemilla vulgaris L. - *Alchemilla monticola* Opiz

02-269 Serbia: Mt Suva planina.

Alchemilla pentaphyllea L.

02-268 Switzerland: Mts Alps.

Amelanchier ovalis Medicus

02-273 France: Nice, March 1881.

Alchemilla arvensis (L.) Scop. ≡ *Aphanes arvensis* L.

02-266 Serbia: Mt Avala.

Cytisus argenteus L. = *Argyrolobium zanonii* (Turra) P. W. Ball

02-393 France: Nice, April 1881.

Spiraea aruncus L. = *Aruncus dioicus* (Walter) Fernald

02-246 France.

Cotoneaster vulgaris Lindl. = *Cotoneaster integerrimus* Medicus

02-280 Serbia: Mt Suva planina.

Cotoneaster tomentosus Lindl.

02-279 By rocky areas.

Crataegus monogyna Jacq.

02-282 In the woods.

Crataegus nigra Waldst. & Kit.

02-281 Serbia: May.

Crataegus melanocarpa M. Bieb. = *Crataegus pentagyna* Waldst. & Kit.
ex Willd.

02-283 In the woods.

Dryas octopetala L.

02-265 Serbia: Mt Suva planina.

Fragaria elatior Ehrh. = *Fragaria moschata* (Duchesne) Weston

02-252 In the woods.

***Geum urbanum* L.**

02-264 Serbia: in the woods around Niš, June 1879.

Pyrus malus L. = ***Malus domestica*** Borkh.

02-278 In the woods.

***Mespilus germanica* L.**

02-284 Serbia: planted.

***Potentilla anserina* L.**

02-255 In the gardens.

***Potentilla arenaria* Borkh.**

02-257 France.

***Potentilla argentea* L.**

02-256 By meadows.

Potentilla leiocarpa Vis. & Pančić = ***Potentilla chrysantha*** Trev.

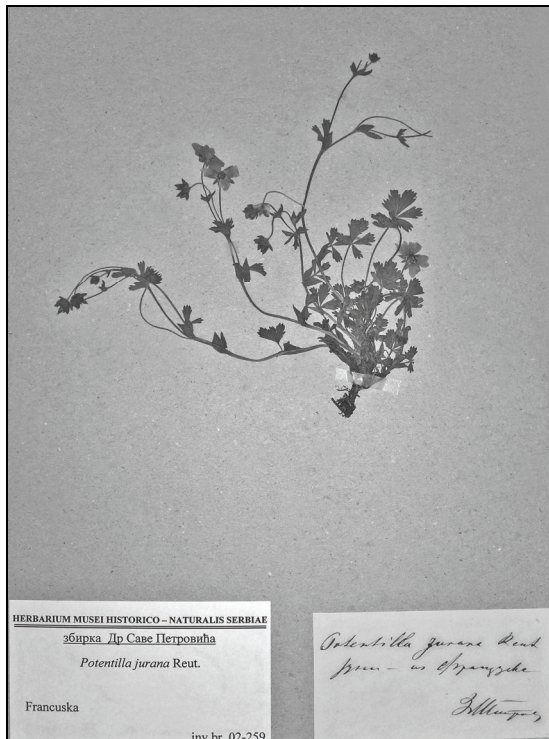
02-260 Serbia: around Niš; on the hills.

Potentilla verna L. - ***Potentilla inclinata*** Vill.

02-253 Serbia: around Niš; by arid areas.

***Potentilla jurana* Reut. (Fig. 7)**

02-259 France.

Fig. 7. - *Potentilla jurana* Reut.

Potentilla patula Waldst. & Kit.

02-261 Serbia: around Niš.

Potentilla reptans L.

02-254 In the gardens.

Potentilla supina L.

02-262 On sandy places.

Potentilla cinerea Chaix ex Vill. - ***Potentilla tommasiniana*** F. W. Schultz

02-258 Serbia: Mt Suva planina.

Prunus chamaecerasus Jacq. = ***Prunus fruticosa*** Pall

02-287 Serbia: on the rocks.

Prunus cerasus L.

02-288 In the gardens.

Prunus mahaleb L.

02-285 Serbia: in the woods.

Prunus padus L.

02-286 In the gardens planted.

Rosa lagenaria Vill. = ***Rosa pendulina*** L.

02-272 Austria: Tirola.

Rubus caesius L.

02-247 By meadows.

Rubus fruticosus L.

02-250 In the shrubs.

Rubus idaeus L.

02-249 On the hills.

Rubus stelliger Boulay & Tuezk.

02-248 France.

Poterium sanguisorba L. = ***Sanguisorba minor*** Scop. subsp. *minor*

02-271 By meadows.

Sorbus aria (L.) Crantz

02-276 In the woods.

Sorbus aucuparia L.

02-275 In the woods.

Sorbus domestica L.

02-277 Serbia: around Niš; in the vineyards.

Sorbus torminalis (L.) Crantz

02-274 In the woods.

Spiraea cana Waldst. & Kit.

02-245 By rocky areas.

Spiraea ulmifolia Scop. = *Spiraea chamaedryfolia* L.

02-244 Serbia: Mt Suva planina.

Waldsteinia geoides Willd.

02-263 By rocky areas.

Fam. **Fabaceae** Lindley

Anthyllis barba-jovis L. (Fig. 8)

02-385 France: Esterelle near Nice; March 1882.



Fig. 8. - *Anthyllis barba-jovis* L.

Anthyllis montana L.

02-386 Serbia: Mt Suva planina, May 1879.

Anthyllis tetraphylla L.

02-387 France: Nice, March 1881.

Anthyllis vulneraria L.

02-388 By meadows.

Astragalus austriacus Jacq.

02-290 Serbia: Belgrade; near Višnjica.

Astragalus baionensis Loisel.

02-297 France.

***Astragalus contortuplicatus* L.**

02-291 Serbia: beside Danube, August 1878.

***Astragalus pentaglottis* L. = *Astragalus echinatus* Murray**

02-292 Spain.

***Astragalus glycyphyllos* L.**

02-296 By meadows.

***Astragalus hamosus* L.**

02-295 Serbia: on the town of Niš, May 1879.

***Astragalus monspessulanus* L.**

02-294 France: Nice, April 1881.

***Astragalus onobrychis* L.**

02-293 By arid and rocky places.

***Cicer physodes* Rehb. = *Cicer arietinum* L.**

02-298 Serbia: around Niš, June 1879.

***Colutea arborescens* L.**

02-289 In the vineyards.

***Coronilla emerus* L.**

02-408 On the hills.

***Coronilla minima* L.**

02-407 France: Nice, April 1882.

***Coronilla scorpioides* (L.) Koch**

02-406 Serbia: around Niš; by rocky areas.

***Coronilla vaginalis* Lam.**

02-404 Switzerland - April 1881.

***Coronilla valentina* L.**

02-405 France: Manton near Nice; April 1881.

***Coronilla varia* L.**

02-026 Serbia: around Niš; by meadows.

***Genista procumbens* Waldst. & Kit. ex Willd. ≡ *Cytisus procumbens* (Waldst. & Kit. ex Willd.) Sprengel**

02-025 By arid places.

***Cytisus microphyllus* Boiss. ≡ *Cytisus procumbens* (Waldst. & Kit. ex Willd.) Sprengel f. *microphyllus* (Schur) Acherson**

02-389 On the hills.

***Cytisus sessilifolius* L.**

02-391 France: Nice, March 1881.

***Cytisus triflorus* L'Her. = *Cytisus villosus* Pourret**

02-392 France: Nice, April 1881.

Cytisus austriacus L. ≡ *Chamaecytisus austriacus* (L.) Link

02-394 Next to woods.

02-395 By arid places.

Cytisus capitatus Scop. - *Chamaecytisus supinus* (L.) Link

02-395 By arid places.

Dorycnium herbaceum Vill.

02-378 By meadows.

Dorycnium suffruticosum Vill. = *Dorycnium pentaphyllum* Scop.

subsp. *pentaphyllum*

02-377 Serbia: Mt Suva planina.

Genista hispanica L. (Fig. 9)

02-396 France: Nice, March 1881.

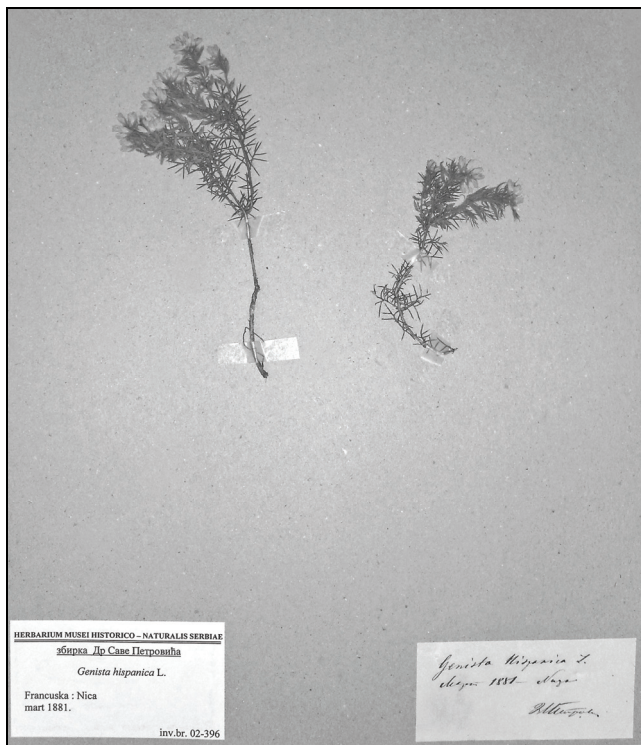


Fig. 9. - *Genista hispanica* L.

Genista pilosa L.

02-401 France: Nice, March 1881.

Genista pulchella Vis.

02-400 France.

Genista radiata (L.) Scop.

02-399 Serbia: Mt Suva planina, 1 July 1879.

Genista triacanthos Brot.

02-398 Portugal.

Cytisus laburnum L. = ***Laburnum anagyroides*** Medicus

02-650 Serbia: on the hills.

Lathyrus angulatus L.

02-319 France: Nice, March 1881.

Lathyrus cicera L.

02-320 Serbia: around Niš; by rocky areas.

Lathyrus hirsutus L.

02-323 By the cultivated fields.

Lathyrus erectus Leg. = ***Lathyrus inconspicuus*** L.

02-321 Serbia: around Niš.

Lathyrus latifolius L.

02-325 Serbia: in shrubs.

Orobus hirsutus L. - ***Lathyrus laxiflorus*** (Desf.) O. Kuntze.

02-323 Serbia: in the woods on Mt Seličevica; May 1879.

Orobus niger L. ≡ ***Lathyrus niger*** (L.) Bernh.

02-329 In the woods.

Lathyrus nissolia L.

02-326 By the cultivated fields.

Lathyrus pratensis L.

02-327 By the cultivated fields.

Lathyrus sativus L.

02-328 Serbia: by the cultivated fields around Niš.

Lathyrus sphaericus Retz.

02-322 By the cultivated fields.

Cytisus nigricans L. ≡ ***Lembotropis nigricans*** (L.) Griseb.

02-390 France: Nice - March 1881.

Orobus vernus L. ≡ ***Lathyrus vernus*** (L.) Bernh.

02-330 In the woods.

Lotus corniculatus L.

02-380 By meadows.

Lotus allionii Desv. = ***Lotus cytisoides*** L.

02-379 France: Nice, March 1881.

Lotus edulis L.

02-381 France: Nice, March 1881.

Lotus ornithopodioides L.

02-382 France: Nice, February 1881.

Lotus parviflorus Desf.

02-383 France.

Medicago denticulata Willd. = ***Medicago polymorpha*** L.

02-339 By meadows.

Ononis minutissima L.

02-336 France: Nice, January 1882.

Ononis mitissima L.

02-334 France: Cannes near Nice, March 1882.

Ononis natrix L.

02-337 France: Nice, December 1882.

Ononis procurrens Wallr. = ***Ononis repens*** L.

02-333 By meadows.

Ononis tridentata L.

02-335 Spain.

Ornithopus compressus L.

02-403 France: Cannes near Nice; April 1881.

Pisum elatius M. Bieb. ≡ ***Pisum sativum*** L.subsp. *elatius* (M. Bieb.) Asch. & Graebn.

02-332 By rocky areas.

Scorpiurus subvillosus L. = ***Scorpiurus muricatus*** L.

02-409 France: Nice, March 1881.

Genista linifolia L. = ***Teline linifolia*** (L.) Webb & Berth.

02-402 France.

Genista candicans L. = ***Teline monspessulana*** (L.) C. Koch

02-397 France: Esterelle near Nice; March 1882.

Lotus tetragonolobus L. = ***Tetragonolobus purpureus*** Moench

02-384 France: Nice, April 1881.

Trigonella gladiata Steven ex M. Bieb.

02-338 France: Nice, March 1880.

Trifolium angustifolium L.

02-355 Serbia: around Niš; in the vineyards.

Trifolium alpestre L.

02-356 On the hills.

Trifolium arvense L.

02-357 By meadows.

Trifolium gracile Thuill. ≡ ***Trifolium arvense*** L.subsp. *gracile* (Thuill.) Nyman

02-364 France: Sent Valie, 13. June 1879.

Trifolium aureum Pollich
02-358 Serbia: by meadows.

Trifolium bocconei Savi
02-359 France: St. Vallier, 8. June 1877.

Trifolium procumbens L. = ***Trifolium campestre*** Schreber
02-341 By meadows.

Trifolium cherleri L.
02-360 France: Cannes near Nice; April 1881.

Trifolium diffusum Ehrh.
02-361 By rocky areas.

Trifolium reclinatum Waldst. & Kit. = ***Trifolium echinatum*** M. Bieb.
02-344 By meadows.

Trifolium fragiferum L.
02-363 Near roads.

Trifolium glomeratum L.
02-365 France: Cannes near Nice; April 1881.

Trifolium hirtum All.
02-366 On the hills.

Trifolium hybridum L.
02-367 By meadows.

Trifolium elegans Savi ≡ ***Trifolium hybridum*** L.
subsp. *elegans* (Savi) Asch. & Graeb.
02-362 By meadows.

Trifolium incarnatum L.
02-368 By meadows.

Trifolium ligusticum Balbis ex Loisel
02-369 France: Cannes near Nice; April 1881.

Trifolium micranthum Viv.
02-370 Serbia: by meadows.

Trifolium montanum L.
02-371 By meadows.

Trifolium nigrescens Viv.
02-373 Serbia: around Niš, May 1879.

Trifolium ochroleucon Hudson.
02-374 By meadows.

Trifolium pallidum Waldst. & Kit.
02-375 By meadows.

Trifolium patens Schreb.
02-376 Serbia: by meadows.

Trifolium pratense L.

02-340 By meadows.

Trifolium purpureum Loisel.

02-342 By meadows.

Trifolium repens L.

02-346 In the gardens.

Trifolium resupinatum L.

02-345 By meadows.

Trifolium rubens L.

02-343 Serbia: in the woods.

Trifolium scabrum L.

02-347 On fields.

Trifolium stellatum L.

02-348 France: Nice, March 1881.

Trifolium striatum L.

02-349 By meadows.

Trifolium strictum L.

02-350 By meadows.

Trifolium subterraneum L.

02-351 Serbia: Niš (near Kurvingrad), May 1879.

Trifolium suffocatum L.

02-352 France: Nice, March 1882.

Trifolium tomentosum L.

02-353 France: Nice, March 1881.

Trifolium trichopterum Pančić

02-354 Serbia: by rocky areas.

Trifolium multistriatum Koch ≡ *Trifolium vesiculosum* Savi

B02-372 y arid meadows.

Vicia angustifolia L.

02-300 By crops.

Vicia atropurpurea Desf. = *Vicia benghalensis* L.

02-302 France: Nice.

Vicia bithynica (L.) L.

02-303 France: Cannes near Nice; April 1882.

Vicia cracca L.

02-304 By meadows.

Vicia disperma DC.

02-305 France: Cannes near Nice.

Vicia dumetorum L.

02-306 In the shrubs.

Vicia grandiflora Scop.

02-307 Serbia.

Vicia hybrida L.

02-308 France: Nice.

Vicia lathyroides L.

02-311 In the woods.

Vicia arenivaga Lamotte = ***Vicia lathyroides*** L.

02-301 By crops.

Vicia lutea L.

02-310 France: Nice.

Vicia hirta Barbis ex Pers. = ***Vicia lutea*** L.

02-309 France: Nice.

Vicia onobrychoides L.

02-312 By rocky areas.

Vicia pannonica Crantz var. *purpurascens* Ser. ≡ ***Vicia pannonica*** Cr.
subsp. *striata* (Bieb.) Nyman

02-313 By crops.

Vicia peregrina L.

02-314 By crops.

Vicia pisiformis L.

02-315 In shrubs.

Orobus ochroleucus Waldst. & Kit. = ***Vicia sparsiflora*** Ten.

02-317 Serbia: around Niš; in the vineyards; in the woods.

Vicia tenuifolia Roth.

02-316 Serbia: Niš; by crops.

Vicia truncatula Fisch. ex M. Bieb.

02-318 On the hills.

Vicia villosa Roth.

02-299 By meadows.

Fam. **Lythraceae** J. St-Hil.

Ammannia verticillata (Ard.) Lam.

02-412 Serbia: near roads.

Lythrum acutangulum Leg.

02-410 Spain.

Lythrum graefferi Ten. = ***Lythrum junceum*** Banks & Solander

02-411 France: Nice, March 1881.

Fam. **Onagraceae** Juss.

Epilobium trigonum Schrank. = *Epilobium alpestre* (Jacq.) Krock
02-419 Serbia: Mt Suva planina.

Epilobium angustifolium L.
02-413 Czech: Francensbad.

Epilobium spicatum Lam. = *Epilobium angustifolium* L.
02-418 Serbia: Mt Suva planina.

Epilobium dodonaei Vill.
02-414 Serbia.

Epilobium hirsutum L.
02-415 On the pools.

Epilobium montanum L.
02-416 In the woods.

Epilobium obscurum Schreb.
02-417 France.

Oenothera muricata L. = *Oenothera biennis* L.
02-420 France: Cannes near Nice, March 1882.

Fam. **Trapaceae** Dumort.

Trapa natans L.
02-421 France: Savoja; Dz`aiguabalatte lake; 13. July 1881.

Fam. **Haloragaceae** R. Br.

Myriophyllum verticillatum L.
02-422 Serbia: on the pools.

Fam. **Apiaceae** Lindley

Aegopodium podagraria L.
02-427 In the woods.

Anthriscus cerefolium (L.) Hoffm.
02-439 By rocky areas.

Astrantia mayor L.
02-423 Serbia: Mt Suva planina.

Bupleurum rotundifolium L.
02-426 By the cultivated fields.

Cnidium venosum Koch = *Cnidium dubium* (Schkuhr.) Thell.
02-433 Austria.

Cnidium orientale Boiss. ≡ *Cnidium silaifolium* (Jacq.) Simonkai
subsp. *orientale* (Boiss.) Tutin
02-432 In the woods.

Dethawia tenuifolia (Ramond ex DC.) Gordon

02-428 Spain: Mt Pyrenees.

Eryngium campestre L.

02-425 Near roads.

Eryngium palmatum Pančić & Vis.

02-424 By rocky areas.

Heracleum sibiricum L. ≡ ***Heracleum sphondylium*** L. subsp. ***sibiricum*** (L.) Simonkai

02-437 Serbia: Mt Suva planina.

Oenanthe media Griseb. = ***Oenanthe silaifolia*** Bieb.

02-431 On underwater areas.

Peucedanum chabraei (Jacq.) Reichenb. = ***Peucedanum carvifolia*** Vill.

02-435 In the woods.

Peucedanum cervaria (L.) Lapeyr.

02-434 In the woods.

Thysselinum palustre (L.) Hoffman ≡ ***Peucedanum palustre*** (L.) Moench

02-436 Czech: Francensbad, August 1880.

Seseli libanotis (L.) Koch

02-429 Serbia: Mt Suva planina.

Seseli varium Trev. = ***Seseli pallasii*** Besser

02-430 On the hills.

Smyrniium olusatrum L.

02-441 France: Nice, February 1881.

Smyrniium perfoliatum L.

02-440 By rocky areas.

Turgenia latifolia (L.) Hoffm.

02-438 By the cultivated fields.

Fam. **Ericaceae** Juss.

Arbutus unedo L.

02-443 France: Nice, January 1881.

Calluna vulgaris (L.) Hull

02-444 Czech: Francensbad, August 1880.

Erica arborea L.

02-445 France: Nice, March 1881.

Erica carnea L. = ***Erica herbacea*** L.

02-446 Serbia: Studenica, April 1882.

Erica multiflora L.

02-447 France: Nice, December 1880.

Erica scoparia L.

02-448 France: near Nice, April 1881.

Erica tetralix L. (Fig. 10)

02-450 France.

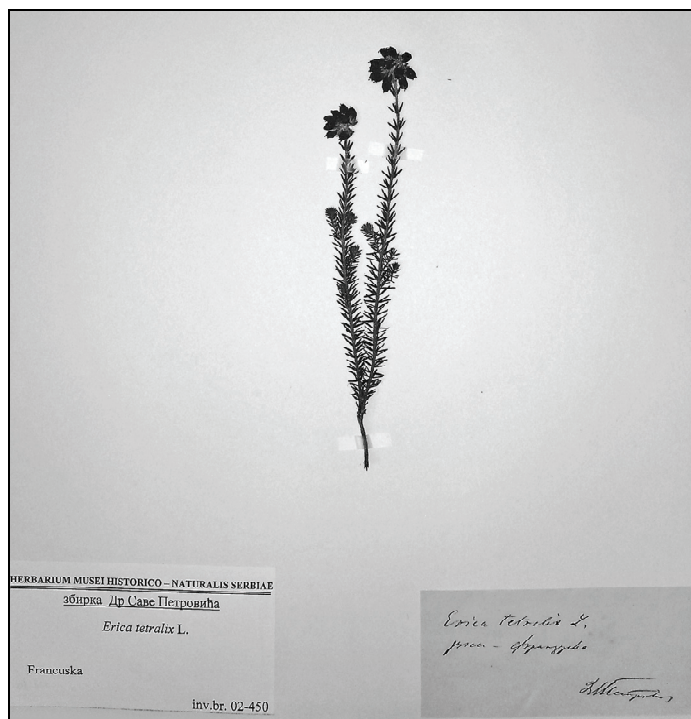


Fig. 10. - *Erica tetralix* L.

Erica decipiens St-Amans = *Erica vagans* L.

02-449 France.

Rhododendron hirsutum L.

02-442 Switzerland: Alps, August 1881.

Vaccinium myrtillus L.

02-452 Serbia: Mt Suva planina.

Vaccinium uliginosum L.

02-451 Czech: Francensbad, August 1881.

Vaccinium vitis-idaea L.

02-453 Serbia: Mt Suva planina.

Fam. Primulaceae Vent.

Asterolinon stellatum Hoffmanns. & Link. = *Asterolinon linum-stellatum*

(L.) Duby

02-463 France: Nice, March 1881.

***Androsace elongata* L.**

02-457 Serbia: Vinik in vicinity of Niš, May 1879.

***Androsace lactea* L.**

02-458 Serbia: Mt Suva planina.

***Androsace maxima* L.**

02-459 Serbia: on the town of Niš.

***Androsace villosa* L.**

02-460 Serbia: Mt Suva planina, May 1879.

***Cyclamen neapolitanum* Ten. = *Cyclamen hederifolium* Aiton**

02-462 In the woods.

***Hottonia palustris* L.**

02-461 Italy: by pools near Venice; April 1882.

***Primula elatior* (L.) Hill**

02-454 Switzerland: near Geneve, May 1881.

***Primula farinosa* L.**

02-445 Switzerland.

***Primula officinalis* (L.) Hill - *Primula veris* L.**

02-456 On the hills.

Fam. **Convolvulaceae** Juss.***Convolvulus althaeoides* L.**

02-464 France: Nice, April 1881.

***Convolvulus arvensis* L.**

02-465 By the cultivated fields.

***Convolvulus cantabrica* L.**

02-466 By the cultivated fields.

***Convolvulus pseudotricolor* Bert. = *Convolvulus tricolor* L.**

02-467 France: Nice, April 1881.

***Cuscuta epithymum* (L.) L.**

02-468 Serbia: By meadows.

***Cuscuta europaea* L.**

02-469 Serbia: By meadows.

***Cuscuta godronii* Desm.**

02-470 France: Nice, December 1880.

Fam. **Boraginaceae** Juss.***Lycopsis arvensis* L. ≡ *Anchusa arvensis* (L.) Bieb.**

02-479 France: Nice, March 1882.

***Asperugo procumbens* L.**

02-474 Serbia: in uncultivated places.

Cerithe major L.

02-497 France: Nice, March 1881.

Cerithe minor L.

02-496 By the cultivated fields.

Cynoglossum pictum Aiton = ***Cynoglossum creticum*** Miller

02-472 Monako, April 1881.

Echium creticum L.

02-500 France: Esterelle near Nice; April 1882.

Echium italicum L.

02-499 Near roads.

Echium calycinum Viv. = ***Echium parviflorum*** Moench

02-501 France: Nice, March 1881.

Echium tuberculatum Hoffmanns. & Link

02-498 France: Nice, April 1881.

Heliotropium europaeum L.

02-471 By fields.

Echinosperrum lappula (L.) Lehm. = ***Lappula squarrosa*** (Retz.) Dumort.

02-473 By meadows.

Lithospermum arvense L.

02-492 Near roads and by fields.

Lithospermum officinale L.

02-493 By meadows.

Lithospermum purpurocaeruleum L.

02-491 In the woods.

Myosotis intermedia Link = ***Myosotis arvensis*** (L.) Hill

02-485 Near cultivated fields.

Myosotis strigulosa Reichenb. = ***Myosotis nemorosa*** Besser

02-490 On the pools.

Myosotis hispida Schlecht. = ***Myosotis ramosissima*** Rochel ex Schult.

02-484 By sunny sides.

Myosotis sicula Guss.

02-486 Near pools.

Myosotis sparsiflora Mikan ex Pohl

02-488 In the woods.

Myosotis stricta Link ex Roemer & Schultes

02-489 By sunny sides.

Myosotis sylvatica Hoffm.

02-487 In the woods.

Nonea pulla (L.) DC.

02-480 By meadows.

Onosma echioides L. - *Onosma heterophylla* Griseb.

02-495 On the hills.

Onosma stellulata Waldst. & Kit.

02-494 In the vineyards.

Pulmonaria mollis Wulfen ex Hornem.

02-481 Serbia: around Niš; in shrubs.

Pulmonaria officinalis L.

02-482 Serbia: around Niš; in the woods.

Pulmonaria saccharata Mill.

02-483 France: in the woods.

Symphytum bulbosum Schimp.

02-475 France: Nice, March 1882.

Symphytum officinale L.

02-476 On the pools.

Symphytum ottomanum Friv.

02-477 Serbia: Niš (near Kurvingrad).

Symphytum tuberosum L.

02-478 In the woods.

Fam. **Lamiaceae** Lindley

Thymus marchallianus Willd. = *Thymus pannonicus* All.

02-503 Serbia: Niš (Kurvingrad), 1879.

Thymus chamaedrys Fries = *Thymus pulegioides* L.

02-502 Serbia: Niš: Markovo kale, November 1878.

Thymus ovatus L. = *Thymus pulegioides* L.

02-504 Serbia: Medvednik, June 1876.

Fam. **Asteraceae** Dumort.

Achillea clypeolata Sibth. & Sm.

02-531 By rocky areas.

Achillea sericea Janka = *Achillea coarctata* Poir.

02-529 By rocky areas.

Achillea millefolium L.

02-526 By meadows.

Achillea lanata Spreng. = *Achillea millefolium* L. subsp. *millefolium*

02-530 By meadows.

Achillea nobilis L.

02-527 By arid sides.

Achillea ptarmica L.

02-528 Serbia: near streams.

Gnaphalium dioicum L. ≡ *Antennaria dioica* (L.) Gaertner

02-513 On the hills.

Anthemis arvensis L.

02-524 Near roads.

Anthemis collina Jord. = *Anthemis montana* L.

02-525 France: Sarras (Ardeche), 02. June 1878.

Artemisia absinthium L.

02-540 In the gardens.

Artemisia camphorata Vill. ≡ *Artemisia alba* Turra

02-543 On the rocks.

Artemisia scoparia Waldst. & Kit.

02-542 By fields.

Artemisia vulgaris L.

02-541 Near roads.

Atractylis cancellata L.

02-552 France: Nice, April 1882.

Micropus erectus L. ≡ *Bombycilaena erecta* (L.) Smolj.

02-506 Near roads.

Carduus arctioides Vill. = *Carduus personata* (L.) Jacq.

02-555 On the hills.

Carlina vulgaris L.

02-551 By mountain meadows.

Carduncellus monspelliensium All. = *Carthamus carduncellus* L.

02-575 France.

Kentrophyllum lanatum (L.) DC. ≡ *Carthamus lanatus* L.

02-574 By meadows.

Centaurea australis Pančić ≡ *Centaurea biebersteinii* DC.

subsp. *australis* (Pančić) Dostál

02-569 By meadows.

Centaurea chrysolepis Vis.

02-568 Serbia: Mt Suva planina.

Centaurea cyanus L.

02-567 By grains.

Centaurea iberica Trev. ex Sprengel

02-566 Serbia: around Niš; by fields.

Centaurea jacea L.

02-561 Near roads.

Centaurea amara L. = *Centaurea jacea* L.

02-570 Near roads.

Centaurea leucophaea Jord.

02-562 France: Nice, January 1881.

Centaurea pectinata L.

02-565 Spain.

Centaurea pullata L.

02-571 France.

Centaurea solstitialis L.

02-573 Serbia: Belgrade; Topčider - August 1882.

Centaurea stenolepis Kern.

02-572 Serbia: Belgrade; Topčider.

Centaurea maculosa Lam. = *Centaurea stoebe* L.

02-563 On the hills.

Centaurea montana L. – *Centaurea triumfetti* All.

02-564 On the hills.

Chrysanthemum segetum L.

02-533 France: Nice, March 1881.

Cirsium acaule Scop.

02-557 Czech: near Francensbad; August 1880.

Cirsium eriophorum (L.) Scop.

02-558 Serbia: Belgrade (Karaburma), 1878.

Chrysanthemum myconis L. ≡ *Coleostephus myconis* (L.) Reichenb.fil.

02-534 France: Nice, March 1882.

Crupina vulgaris Cass.

02-560 Serbia: Belgrade; Topčider, 1878.

Inula viscosa (L.) Ait. ≡ *Dittrichia viscosa* (L.) W. Greuter subsp. *viscosa*

02-518 France: Nice, December 1881.

Echinops sphaerocephalus L.

02-550 Near roads.

Eupatorium cannabinum L.

02-505 Near streams.

Filago arvensis L.

02-507 By fields.

Filago lutescens Jord.

02-510 France.

Filago mareotica Delile

02-508 Egypt.

Filago prostrata Parl. = *Filago pyramidata* L.
02-509 France.

Filago germanica L. = *Filago vulgaris* Lam.
02-511 On the hills.

Filago canescens Jord. = *Filago vulgaris* Lam.
02-512 France: Laveyron (Drôme); 30. June 1878.

Gnaphalium luteo-album L.
02-514 France: Nice, March 1882.

Gnaphalium sylvaticum L. (Fig. 11)
02-515 Czech: Francensbad, August 1880.



Fig. 11. - *Gnaphalium sylvaticum* L.

Helichrysum stoechas (L.) Moench
02-516 France: Nice, January 1881.

Inula britannica L.
02-521 Next to pools.

Inula germanica L.
02-520 In bushes.

Inula montana L.

02-519 France.

Inula oculus-christi L.

02-517 In the vineyards.

Jasonia saxatilis Guss. = ***Jasonia glutinosa*** (L.) DC.

02-522 Spain.

Jurinea mollis (L.) Reichenb.

02-554 In the woods.

Chrysanthemum leucanthemum L. = ***Leucanthemum vulgare*** Lam.

02-535 By meadows.

Chrysanthemum inodorum L. ≡ ***Matricaria inodora*** L.

02-536 By meadows.

Chrysanthemum tenuifolium Kit. ≡ ***Matricaria tenuifolia*** (Kit.) Simonkai

02-537 Serbia: by meadows.

Cirsium acarna (L.) Moench ≡ ***Picnomon acarna*** (L.) Cass.

02-556 Serbia: by rocky areas around Matejevac (near Niš).

Chamaepeuce atropurpurea Boiss. & Heldr. - ***Ptilostemon strictus***
(Ten.) Greuter

02-559 Serbia: in the woods.

Santolina pectinata Lag. = ***Santolina rosmarinifolia*** L.

02-523 Spain.

Senecio cineraria DC. = ***Senecio bicolor*** (Willd.) Tod.

subsp. ***cineraria*** (DC.) Chater

02-549 France: Nice, March 1881.

Senecio erucifolius L.

02-544 In the vineyards.

Senecio lividus L.

02-548 France: Esterelle near Nice; March 1882.

Senecio paludosus L.

02-547 Serbia: on the pools.

Senecio procerus (Griseb.) Boiss. = ***Senecio papposus*** (Reichen.) Less.

subsp. ***papposus***

02-546 Serbia: Mt Suva planina.

Senecio vernalis Waldst. & Kit.

02-545 By the cultivated fields.

Staelina dubia L.

02-553 France: Esterelle near Nice; April 1882.

Tanacetum annuum L.

02-538 France: Cannes near Nice, March 1882.

Chrysanthemum corymbosum L. ≡ *Tanacetum corymbosum* (L.) Schultz Bip.
02-532 By meadows.

Xeranthemum cylindraceum Sibth. & Sm.
02-539 By arid fields.

Fam. **Hydrocharitaceae** Juss.

Hydrocharis morsus-ranae L.
02-576 Serbia: Belgrade; Viline vode.

Stratiotes aloides L.
02-577 Serbia: Makiš near Belgrade.

Fam. **Juncaginaceae** Rich.

Triglochin palustris L.
02-578 Czech: Francensbad, August 1880.

Fam. **Potamogetonaceae** Dumort.

Potamogeton crispus L.
02-581 On the pools.

Potamogeton lucens L.
02-579 Serbia: on the pools.

Potamogeton pusillus L.
02-580 On the pools.

Fam. **Asphodelaceae** Juss.

Asphodelus microcarpus Viv. = *Asphodelus aestivus* Brot.
02-584 France: island St Margarita near Nice, March 1882.

Asphodelus fistulosus L.
02-582 France: Nice, March 1881.

Asphodelus cerasiferus Gay = *Asphodelus ramosus* L.
02-583 France: Esterelle near Nice; March 1882.

Fam. **Alliaceae** J. G. Agardh.

Allium asperum G. Don = *Allium carinatum* L. subsp. *carinatum*
02-595 Serbia: Mt Suva planina.

Allium pulchellum G. Don ≡ *Allium carinatum* L. subsp. *pulchellum*
Bonnier & Layens
02-591 Serbia: Mt Suva planina.

Allium cupani Rafin.
02-596 By rocky areas.

Allium flavum L.

02-594 By rocky areas.

Allium moschatum L.

02-593 By rocky areas.

Allium neapolitanum Cyr.

02-592 France: Nice, February 1881.

Allium roseum L.

02-590 France: Nice, March 1881.

Allium rotundum L.

02-58 In the vineyards.

Allium saxatile M. Bieb.

02-597 By rocky areas.

Allium scorodoprasum L.

02-586 By meadows.

Allium sphaerocephalon L.

02-587 Serbia: around Niš; by rocky areas.

Allium subhirsutum L.

02-588 France: Nice, March 1882.

Fam. **Liliaceae** Juss.

Tulipa oculus-solis St-Amans = *Tulipa agenensis* DC.

02-598 France: Nice, March 1881.

Tulipa praecox Ten.

02-599 France: near Nice, March 1882.

Fam. **Hyacinthaceae** Batsch ex Borckhausen

Bellevalia romana (L.) Reichenb.

02-600 France: Nice (St. Kafien); March 1882.

Bellevalia pallens Vis. - *Hyacinthella leucophaea* (C. Koch) Schur

02-601 Rocky areas.

Muscari botryoides (L.) Miller

02-602 By rocky areas.

Muscari comosum (L.) Miller

02-603 By the cultivated fields.

Fam. **Asparagaceae** Juss.

Asparagus officinalis L.

02-605 In the woods.

Asparagus scaber Brign. - *Asparagus pseudoscaber* Grec.

02-604 Serbia: in Makiš near Belgrade.

Aphyllanthes monspeliensis L.

02-585 France: Nice, March 1881.

Fam. **Iridaceae** Juss.

Crocus sulphureus Griseb. = *Crocus chrysanthus* Herb.

02-606 Serbia: around Niš; by sunny sides and rocky places.

Crocus reticulatus Steven ex Adams

02-608 Serbia: Belgrade; Košutnjak.

Crocus versicolor Ker-Gawler

02-607 France: Nice, January 1881.

Iris graminea L.

02-614 In the woods.

Iris Italica Parl.

02-618 Italy: Mt Pisano.

Iris italica Parl. = *Iris lutescens* Lam.

02-617 France: Nice, February 1881.

Iris pumila L.

02-619 Serbia.

Iris pumila L.

02-611 On the hills.

Iris reichenbachii Heuffel

02-615 By rocky areas.

Iris spuria L.

02-613 Serbia: Makiš near Belgrade.

Iris spuria L. subsp. *spuria*

02-612 France.

Romulea columnae Sebastiani & Mauri

02-609 France: Nice, February 1881.

Romulea ramiflora Ten.

02-610 France: Cannes near Nice, March 1882.

Fam. **Orchidaceae** Juss.

Cephalanthera ensifolia L. C. M. Richards = *Cephalanthera longifolia*
(L) Fritsch

02-644 In the woods.

Coeloglossum viride (L.) Hartman

02-641 On the hills.

Orchis maculata L. ≡ *Dactylorhiza maculata* (L.) Soó

02-634 Serbia: Mt Suva planina.

Orchis pseudosambucina Ten. - ***Dactylorhiza latifolia*** (L.) Soó
02-630 In the woods.

Orchis sambucina L. ≡ ***Dactylorhiza sambucina*** (L.) Soó
02-628 On the hills.

Gymnadenia conopsea (L.) R. Br.
02-642 On the hills.

Ophrys apifera Huds.
02-624 France: Nice, March 1881.

Ophrys bertolonii Moretti
02-622 France: Nice, March 1881.

Ophrys bombyliflora Link
02-621 France: Lestibar near Nice; March 1881.

Ophrys arachnites (Scop.) Reichard = ***Ophrys fuciflora***
(F. W. Schmidt) Moench
02-625 France: Nice, March 1881.

Ophrys fusca Link
02-620 France: Nice, March 1881.

Ophrys lutea Cav.
02-626 France: Nice, April 1882.

Ophrys scolopax Cav.
02-627 Serbia: Belgrade; Topčider, May 1878.

Ophrys aranifera Huds. = ***Ophrys sphegodes*** Miller
02-623 Serbia: Belgrade; Topčider.

Orchis coriophora L.
02-636 By meadows.

Orchis mascula (L.) L.
02-633 In woods.

Orchis pallens L.
02-631 In the woods.

Orchis papilionacea L.
02-632 Serbia: around Niš.

Orchis fusca Jacq. = ***Orchis purpurea*** Huds.
02-635 In the woods.

Orchis ustulata L.
02-629 By meadows.

Platanthera chlorantha (Custer) Reichenb.
02-643 Serbia: in the woods.

Serapias cordigera L.
02-637 France: Nice, April 1881.

***Serapias lingua* L.**

02-639 France: Nice, April 1882.

***Serapias longibracteata* A. A. Eaton - *Serapias lingua* L.**

02-638 France: Nice, April 1882.

***Serapias neglecta* De Not.**

02-640 France: near Nice, April 1882.

***Spiranthes autumnalis* L. C. M. Richards = *Spiranthes spiralis* (L.)**

Chevall.

02-645 By sunny sides.

Fam. **Lemnaceae** Gray***Lemna gibba* L.**

02-646 Serbia: on the pools.

***Lemna minor* L.**

02-647 On the pools.

***Lemna trisulca* L.**

02-648 On the pools.

DISCUSSION

After the processing and cataloguing, it was determined that the Herbarium Collection by Sava Petrović stored at the Natural History Museum in Belgrade includes 648 herbarium sheets with 1062 herbarium specimens (exsiccates). The herbarium specimens are between 18 and 134 years old and at present in relatively good shape considering the poor conditions in which they had been stored.

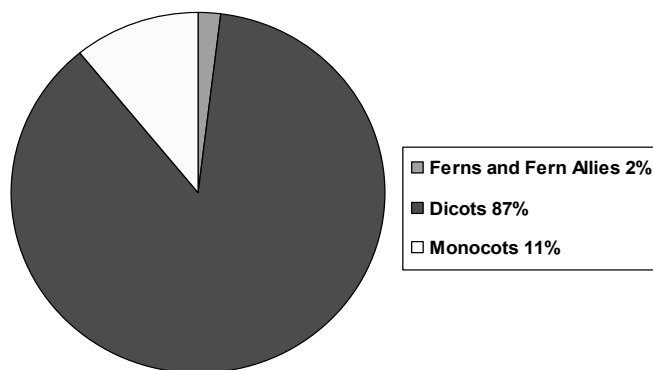


Fig. 12. – Representation of systematic groups in the herbarium collection by Sava Petrović.

This collection includes plant material belonging to 629 different plant species from 54 families of higher plants. The greatest number of genera

and species belongs to the angiosperm families (Fig. 12). The best represented families were *Fabaceae* with 120 species and *Asteraceae* with 31 genera (Fig. 13). It is interesting to note that one of the largest and most widespread plant families, *Poaceae*, was not represented in this herbarium collection by even a single specimen.

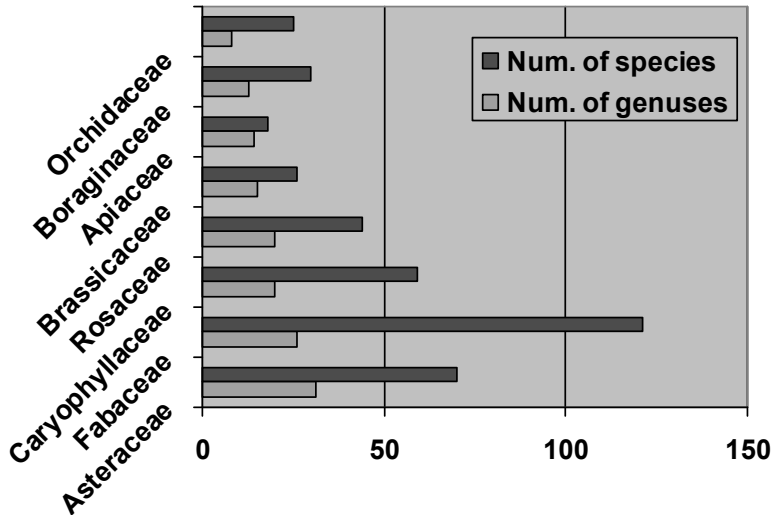


Fig. 13. – The best represented families of higher plants in the Herbarium Collection by Sava Petrović

The herbarium material in this collection was collected in 11 countries. Most material originated in Serbia and France, while there are also certain specimens from the territories of present-day Switzerland, Italy, Austria, Czech Republic, Spain, Portugal, Hungary, Macedonia and Egypt.

Most specimens from Serbia were collected in the area of Niš – 65 herbarium sheets. On 239 herbarium sheets the original labels did not include the locality where the material was collected, but just listed a short description of the habitat where the species may be encountered, and occasionally also the month when they are in flower. As this herbarium is dated to the period of Sava Petrović's intensive work on studying flora of the vicinity of Niš, it may be assumed that this herbarium material was also from that area as most of these species are cited in "Flora of the vicinity of Niš". A smaller number of specimens are from the vicinity of Belgrade – 19 herbarium sheets. There were 39 herbarium sheets attributed to other parts of Serbia, dated to the period 1876-1882.

The specimens collected in the territory of France are stored in 182 herbarium sheets. The herbarium material from this area is dated to the period 1880-1882. Most specimens are from southern France, primarily the Azure Coast (Cannes, Nice), where Sava Petrović took vacations several

times, primarily for recovery from tuberculosis, which he suffered from to the end of his life.

This collection includes plant specimens from various habitat types, from those growing in mountain areas (Alps, Pyrenees, Suva Planina etc.) and species of the Mediterranean belt (Cannes, Nice etc.) to the species growing in lowlands and various anthropogenous habitats (gardens, cultivated fields, vineyards, cities etc.)

It is interesting to note that S. Petrović wrote the great majority of herbarium labels in his own hand, which is not the case with the other herbarium material in the herbariums where his material was stored. If these exsiccates are compared with his other specimens in numerous herbariums in Europe, it is evident that the data on these labels are less informative. For example, labels of more than 200 exsiccates did not include collection sites, and even for the vicinity of Niš the more detailed localities and dates are rarely mentioned, while many labels bear only the name of the state or a short description of habitat. Also excluded were the taxa described by S. Petrović himself, except for *Hypecoum pseudo-grandiflorum* Petrović. According to these facts it may be assumed that this collection had a primarily educative purpose rather than a scientific one, and that it was probably used by students at Great School or some college-preparatory high school.

CONCLUSIONS

The Herbarium Collection by Sava Petrović stored in the General Herbarium of the Natural History Museum in Belgrade has an immense historical and museological importance. But it represents only a small part of the material heritage of S. Petrović in Serbia, as most of the herbarium material collected by this outstanding Serbian botanist and donated as a legacy to the First Gymnasium in Niš has disappeared without a trace.

The herbarium material in this collection is very diverse: of 648 herbarium sheets only 19 include duplicates of certain taxa. The diversity of this material also pertains to areas and habitat types in which the material was collected.

This herbarium material was most probably used for educational purposes, considering that the herbarium sheets and covers that contained the herbarium exsiccates before conservation were quite damaged, dirty, torn and sketched on, and the labels contained a very small amount of data. It also includes almost no specimens of taxa described by S. Petrović. The only exception is a specimen of *Hypecoum pseudograndiflorum* Petrović, collected six years before the description of future new species (1879). At

that time S. Petrović had probably not yet assumed (or was unsure) that this was a new species for science, so on the label he entered another name that was in use at the time.

Considering the age of this herbarium material, it may be used for comparison with present-day conditions of flora in the same areas, as the localities where the material was collected are now quite certainly very different due to urbanization. There is a high probability that many plant species that used to be collected in the vicinity of towns are now absent from these areas, so the herbarium specimens from this collection may be the only evidence that they used to inhabit these habitats. This is particularly true for exsiccates of *Hypocoum pseudograndiflorum*, *Ranunculus lingua* and *Asparagus pseudoscaberr*, which are now included in the list of critically endangered taxa on the Red List of Flora of Serbia (Stevanović 1999).

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**ХЕРБАРСКА ЗБИРКА САВЕ ПЕТРОВИЋА У ХЕРБАРИЈУМУ
ПРИРОДЊАЧКОГ МУЗЕЈА У БЕОГРАДУ**

МИРОСЛАВ ЈОВАНОВИЋ

РЕЗИМЕ

Хербарска збирка Саве Петровића, једног од најзначајнијих српских ботаничара 19. века, која се налази у Хербаријуму Природњачког музеја у Београду, састоји се од 648 хербарских табака са 1062 примерка у њима. Урађена је конзервација, реинвентаризација и фотодокументација ове збирке која има велики културни, научни и историјски значај. Овај хербарски материјал обухвата 629 врста из 233 рода и 54 породице биљака. Најзаступљенији су примерци из породица *Asteraceae*, *Fabaceae*, *Caryophyllaceae* и *Brassicaceae*. Хербарски материјал датира из периода од 1876. до 1882. године и сакупљен је на подручју 11 држава, а највећи број примерака је са територија Србије и Француске. Материјал је сакупљан на разноврсним типовима станишта, од високопланинских области, преко брдских, равничарских, медитеранских области, па све до урбаних предела. Првобитна намена ове хербарске збирке вероватно је била едукативна. Овај хербарски материјал може се искористити за поређење са данашњим флористичким стањем на истим подручјима. Вероватно је да се значајан број биљних врста, које су у то време сакупљане у околини градова, данас не би могао наћи, а то се посебно односи на ексикате *Hypochaeris pseudograndiflorum*, *Ranunculus lingua* и *Asparagus pseudoscaber* који се налазе на попису крајње угрожених таксона Црвене листе флоре Србије.