

ANALYSIS OF THE FAMILY OROBANCHACEAE FROM CARL STUDNICZKA'S HERBARIUM

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Abstract. We analysed family Orobanchaceae (orders: Orobanchaceen and Rhinanthaceen) with a total of 127 herbarium sheets. According to the labels, the majority of herborized material was collected in the area of Austria (30 sheets). Most herbarium sheets belong to: Flora Böhmens (12) - including Flora von Böhmen collection and Flora von N. Oesterreich (12) - including Flora von Oesterreich collection. With reference to the part of Studniczka's herbarium which has already been analysed, there are three collections which are mentioned for the first time. The following botanists or collectors of herbal material are mentioned for the first time - Bergh A., Führer and Türckheim. Most herbarium sheets were collected by Studniczka himself (53).

Keywords: Studniczka's herbarium, Split, Croația.

Rezumat. Analiza familiei Orobanchaceae din ierbarul Carl Studniczka. Am analizat familia Orobanchaceae (ordinele: Orobanchaceen și Rhinanthaceen) cu un număr total de 127 de file de ierbar. Conform etichetelor, mare parte din materialul analizat a fost colectat din Austria (30 file). Cea mai mare parte a filelor de ierbar aparțin de: Flora Böhmens (12) – incluzând colecția Flora von Böhmen și Flora von N. Oesterreich (12) – incluzând colecția Flora von Oesterreich. Cu referire la partea din ierbarul Studniczka care deja a fost analizată, sunt trei colecții menționate pentru prima dată. Următorii botaniști și colecționari de material ierbos sunt menționați pentru prima dată: Bergh A., Führer și Türckheim. Cele mai multe file din ierbar au fost colectate de însuși Studniczka (53).

Cuvinte cheie: ierbarul Studniczk, Split, Croația.

INTRODUCTION

We worked on Carl Studniczka's herbarium which can be found in the Natural History Museum in Split. As an amateur botanist, Carl Studniczka collected plants while traveling (1869-1904) and working as an officer (data are known from herbarium labels) in the wide surrounding area of: Vienna and Wiener Neustadt in Austria, Split in Croatia, Celje in Slovenia, Kotor in Montenegro, Olomouc and Leitmeritz in the Czech Republic, Przemysl in Poland and at last Trieste in Italy. The analysis has shown that this herbarium contains samples of the plants which were collected and sent to Studniczka by many botanists or collectors of that time.

MATERIAL AND METHODS

In this paper we analysed the herbarium sheets for the family Orobanchaceae. From the labels of the herbarium sheets, we firstly copied the Latin name of the genus and the species; then the date, month and year of collection, followed by the collector (**A**-Alioth, **Ay**-Ayasse, **B**-Barth, **Ba**-Baumbach, **Be**-Bergh, **Bm**-Brandmayer, **Bn**-Brendel, **Bo**-Borbás, **Br**-Bordère, **C**-Cornaz, **F**-Favrat, **Fr**-Freyn, **Ft**-Fritze, **Fü**-Führer, **G**-Gander, **Ga**-Gandoger, **Gr**-Graf, **H**-Halácsy, **Ha**-Hansen, **He**-Henser, **Hu**-Huet, **H/P**-Huter et Porta, **J**-Jacob, **Ja**-Janka, **K**-Kugler, **Kü**-Kühnau, **Ku**-Kumlien, **M**-Masson, **R**-Ressmann, **Re**-Reverchon, **S**-Studniczka, **Si**-Sire, **T**-Trautman, **Tü**-Türckheim, **Z**-Zetterstedt, **Z/W**-Zetterstedt et Wickbom) and the affiliation to the particular herbarium collection (FA-Flora Austriae inf., FAI-Flora Algovica, FB-Flora Böhmens, FdB-Flora de Bormio, FvB-Flora von Böhmen, FC-Flora Carinthiaca, FvC-Flora von Cilli, FD-Flora Dalmatiens, FG-Flora Gallica exsiccata, FI-Flora von Istrien, FN-Flora von Nieder-Oesterreich, FO-Flora von Oesterreich, FP-Flora von oesterr. Polen, FR-Flora der Raxalpe, FS-FI. Schleswig, FvS-Flora von Steiermark, FT-Flora Transsilvaniae, Ft-Flora transsilvanica, FvT-Flora von Triest, FW-Flora von Wien, FWN-Flora von Wr Neustadt, HA-Herbier E. Ayasse, HK-Herbarium R. Kühnau, HR-Herbier Rosine Masson, J-Janka iter turcicum a. 1871., P-Plante Visconsin Exs., R-Reise durch das südliche Spanien 1873., S-Société Helvétique). According to Flora Croatica Database (FCD), The Plant list and USDA plants Database, we listed the name of the species in brackets; from the label we copied the numeric sign, name of the place where the plant had been found with altitude data if available and listed the number of herbarium samples in brackets.

RESULTS AND DISCUSSION

List of species: (Ord. 84: *Orobanchaceen* and Ord. 85: *Rhinanthaceen*).

1. *Alectorolophus angustifolius* Gmel. 15.8.1872. **Fü** (*Rhinanthus serotinus* /Schönh./ Oborny) Zobtengebirge (4)
2. *Bartschia alpina* L. July 27, 1869. **T** (*Bartsia alpina* L.) Reisingebirge – kogengleis (4)
3. *B. alpina* L. July, 1873. **K** FAI (*B. alpina* L.) Pfronten (Bavaria). In pratis et glareosis humidis solo dolomitico Aggenstein, 1790 met. (5)
4. *Bartsia spicata* Ram. August 3, 1873. **Br** (*Nothobartsia spicata* /Ramond/ Bolliger & Molau) Gèdre; Htes Pyrénées (3)

5. *B. spicata* Ram. August 3, 1873. **Br S** (*N. spicata* /Ramond/ Bolliger & Molau) Localité Gèdre; Htes Pyrénées Station Paturages de Mosca, terrain schisteux Altitude 1200 mètres (4)
6. *Epiphegus virginiana* Bart. **He** (*Epifragus virginiana*/L./ W.P.C. Barton) New Jersey (2)
7. *Eufragia viscosa* Benth. July 19, 1873. **Ft R** (*Parentucellia viscosa*/L./ Caruel) Pto Maria, in graminosis (3)
8. *Euphrasia coerulea* Tausch. = *E. ericetorum* Jord. = *E. aristata* Favrat August, 1878. **F S** (*E. stricta* D. Wolff) Lausanne, bords du Léman. Pelouses, sables & graviers 375 m (8)
9. *E. coerulea* Tausch. = *E. ericetorum* Jord. = *E. aristata* Favrat & Gremlé August 17, 1902. **S FvT** (*E. stricta* D. Wolff) Abhänge zwischen Barcola u. Trstenik (11)
10. *E. divergens* Jord. September 10, 1873. **Ga FG** (*Odontites vulgaris* Moench ssp. *vulgaris*) No. 403 Hab. in arvis ad Gleizé, Rhône (1)
11. *E. hirtella* Jord. August 1, 1878. **M HR** (*E. hirtella* Jord. ex Reut.) Localité Pont de Nant, Alpes Vaudoises Suisse Station Paturages Altitude 1260 m (6)
12. *E. lutea* L. October, 1880. **S FD** (*Orphantha lutea*/L./ A.Kern. ex Wettst.) In den Macckien auf Punta d'Ostro (2)
13. *E. lutea* L. August 29, 1893. **S FN** (*O. lutea* /L./ A.Kern. ex Wettst.) felsen bei Fischau (3)
14. *E. lutea* L. September 10, 1902. **S FvT** (*O. lutea* /L./ A.Kern. ex Wettst.) Wiesen am Trstenik (2)
15. *E. minima* Jacq. var. *labium album* August 12, 1878. **F** (*E. minima* Jacq.) Glacier de Rhône, Valais Diluvion glaciaire 1750 m (7)
16. *E. minima* Schl. September, 1878. **Si S** (*E. minima* Jacq. ssp. *minima*) Localité Chasseral, Jura suisse Station Hauts pâturages Altitude 1600 m (10)
17. *E. montana* Jord. August 30, 1874. **F** (*E. rostkoviana* Hayne ssp. *montana*/Jordan/ Wettst.) praires humides Valais (6)
18. *Euphrasia nemorosa* H.Mart. = *E. gracilis* Fr. August 31, 1878. **F S** (*Euphrasia micrantha* Rchb.) Fosèts du Jorat sur Lousanne. Bords & talus des chemins 850 m (6)
19. *E. odontites* L.1888. **S FvB** (*Odontites verna*/Bellardi/ Dumort. ssp. *serotina*/Dumort./ Corb.) in Gebüsch um Theresienstadt (9)
20. *E. odontites* L. β July 4, 1873. **S FD** (*O. verna* /Bellardi/ Dumort. ssp. *serotina* /Dumort./ Corb.) im Thal won Meline am hütweidenrädern (3)
21. *E. officinalis* L. δ *alpestris* W.G. August 16, 1878. **Fr** (*E. stricta* D. Wolff) 429.Moravia. Hohes Gesenke. In pascuis elatis vallis Kleiner Kessel. - 1220 m (4)
22. *E. officinalis* v. *alpestris* August 11, 1895. **S FWN** (*E. stricta* D. Wolff) am Sonnenwendstein (2)
23. *E. officinalis* L. β *neglecta* September, 1881. **S FvB** (*E. rostkoviana* Hayne ssp. *rostkoviana*) Waldwiesen bei Skalitz n. Leitmeritz (3)
24. *E. officinalis* L. var. β *neglecta* = *E. nemorosa* July 31, 1885. **S FP** (*E. rostkoviana* Hayne ssp. *rostkoviana*) Hügel bei Kruhel n. Przemysl (4)
25. *E. officinalis* L. γ *nemorosa* July, 1879. **S FvC** (*E. rostkoviana* Hayne ssp. *rostkoviana*) Wiesen um Cilli (7)
26. *E. officinalis* L. γ *nemorosa* July 15, 1882. **S FB** (*E. rostkoviana* Hayne ssp. *rostkoviana*) Bergwiesen um Leitmeritz (11)
27. *E. officinalis* L. α *pratensis* September, 1881. **S FB** (*E. rostkoviana* Hayne ssp. *rostkoviana*) Waldwiesen um Leitmeritz (8)
28. *E. picta* Wim. August 10, 1878. **Fr** (*E. picta* Wimmer) 490.Oestr. Schlesien. Sudeten. Hochtriften am Peterstein. 1440 m (7)
29. *E. puberula* Jordan August 14, 1878. **C FdB** (*E. pectinata* Ten.) Abords dans l'barbe, an montoux de la Some cantoniefe du Stalvio dans la direction du Piz Umbrail ā environ 2500 m.s.m. (4)
30. *E. rigidula* Jord. September 26, 1876. **Ga FG** (*E. micrantha* Rchb.) No 867 Hab. in montosis supra St. Cyr-de Chatoux (Rhône) 2400' (4)
31. *E. salisburgensis* Funk July 18, 1876. **B Ft** (*E. salisburgensis* Funck ex Hoppe) In rupestribus subalpinis: Kronstadt (6)
32. *E. salisburgensis* Funk August 29, 1893. **S FN** (*E. salisburgensis* Funck ex Hoppe) magern hügel ober Fischau & Wollersdf. (4)
33. *E. salisburgensis* Funk β *subalpina* September 8, 1878. **F S** (*E. salisburgensis* Funck ex Hoppe) Sommet du Mont-Tendre, Jura, Vaud 1600 m (7)
34. *E. tholeyroniana* Gdgr. September 28, 1874. **Ga** (*E. hirtella* Jord. ex Reut.) Gallia austr. Arnas (Rhône) (2)
35. *E. tholeyroniana* Gdgr. September 18, 1876. **Ga FG** (*E. hirtella* Jord. ex Reut.) No 404 Hab. in ericetis et pascuis prope Arnas (4)
36. *E. trixago* Vis. June 4, .1873. **S FD** (*Bartsia trixago* L.) zwischen Gebüsch bei Punta d'Ostro (2)
37. *E. uechtriziana* Igr. & Engl. June 6,1880. **Fr** (*E. coerulea* Tausch ex Hoppe & Fuernrohr) Böhmen. Mensegebirge hugwiesen bei Dobřau (15)
38. *E. uliginosa* Reut. July 1, 1873. **Ga FG** (*E. hirtella* Jord. ex Reut.) No 176 Hab. in udis prope Frontenas (Rhône) (4)
39. *E. verna* Bellard **Ha FS** (*Odontites verna*/Bellardi/ Dumort.) Langballigau: Salzwiesen am acker (6)
40. *Gerardia auriculata* Michx. **Ku P** (*Agalinis auriculata*/Michx./ S.F. Blake) No. 42 Albion, Dane Countr. (3)
41. *G. grandiflora* Bth. **Bn** (*Aureolaria grandiflora*/Benth./ Pennell) Peoria, Illinois (1)
42. *G. quercifolia* Pursh. - Kuml. **KuP** (*Aureolaria virginica* /L./ Pennell) 143. Albion, Dane Countr. (2)
43. *G. setacea* Walt. - Kuml. **KuP** (*Agalinis setacea*/J.F. Gmel./ Raf.) No 140.Albion, Dane Countr. (1)
44. *Lathraea squamaria* L. April 20, 1868. **S FN** (*L. squamaria* L.) im Aügarten (3)

45. *L. squamaria* L. April 16, 1893. **S FN** (*L. squamaria* L.) im Akademiegarten zü Wr Neustadt (3)
46. *Melampyrum arvense* August, 1881. **S FvB** (*M. arvense* L.) Aecker am Fusse des Milleschauer (3)
47. *M. arvense* L. June 25, 1895. **S FWN** (*M. arvense* L.) Acker üm Wöllersdorf (3)
48. *M. cristatum* L. August, 1882. **S FB** (*M. cristatum* L.) Holzschläge um Leitmeritz (1)
49. *M. cristatum* L. July 13, 1893. **S FN** (*M. cristatum* L.) Walwiesen b. Muthmansdorf (3)
50. *M. barbatum* W.K. June 25, 1873. **Fr** (*M. barbatum* Waldst. et Kit.) Ungarn. Comitat Pest. - Ackerränder bei Krottendorf flugsand 130 m (1)
51. *M. barbatum* W. & K. June, 1894. **S FWN** (*M. barbatum* Waldst. et Kit.) Wiesen bei der Teichmühle (2)
52. *M. barbatum* W. & K. June 15, 1904. **S FI** (*M. barbatum* Waldst. et Kit.) zwischen Samedella u. Isola (4)
53. *M. nemorosum* L. July 3, 1881. **S FvB** (*M. nemorosum* L.) Doxaner Au (2)
54. *M. nemorosum* L. June 4, 1885. **S FP** (*M. nemorosum* L.) Waldränder Pralkowce am Przemysl (2)
55. *M. pratense* L. July, 1881. **S FB** (*M. nemorosum* L.) Walder um Leitmeritz (3)
56. *M. pratense* L. June, 1882. **S FB** (*M. pratense* L.) Wälder am Kreuzberg bei Leitmeritz (2)
57. *M. pratense* L. August 28, 1902. **S FvT** (*M. pratense* L.) im Boschetto unter dem Jäger (2)
58. *M. saxosum* Baumg. August 21, 1874. **Bo FT** (*M. carpathicum* Schult.) in graminosis vallis Valeriaska subalpe Retyezát 4100' alt. (3)
59. *M. silvaticum* L. 1888. **S FvB** (*M. carpathicum* Schult.) um Theresienstadt (2)
60. *M. silvaticum* L. July, 1893. **S FN** (*M. carpathicum* Schult.) Wälder üm Wr Neustdt. (4)
61. *M. stenophyllum* Čelak (non Boiss.) August 11, 1880. **Fr** (*M. subalpinum*/Jur./ A. Kern.) Böhmen Hohenbruck. Föhrenwälder bei Bolehošť (2)
62. *M. subalpinum* A. Kern. July 23, 1878. **Fr** (*M. subalpinum*/Jur./ A. Kern.) Böhmen. Opočno. Wälder bei Bolehošť (3)
63. *Odontites alpestris* Jord. August 27, 1873. **Re** (*O. viscosus*/L./ Clairv.) Ribieres an Mont Rognose (2)
64. *O. brigantia* Jord. September 14, 1873. **Re** (*O. viscosus* /L./ Clairv.) Briançon rare (4)
65. *Orobancha carotae* Desm June 14, 1877. **Fr** (*O. artemisiae-campestris* Gaudin) Auf *Daucus carota* schmarotzens bei Pola in Istrien (1)
66. *O. coeruleascens* Steph. July 6, 1880. **Fr** (*O. coeruleascens* Stephan ex Willd.) Böhmen Mittelgebirge felsengerölle bei Leitmeritz (3)
67. *O. crinita* Viv. June 10, 1880. **S FD** (*O. sanguinea* C. Presl) auf *Satureja* in der Schlucht der Fiumera b. Cattaro (3)
68. *O. cruenta* Bert. June 22, 1875. **A** (*O. gracilis* Sm.) auf *Genista tinctoria* Cadenabbia, lago di Como (2)
69. *O. cruenta* Bertol. June 25, 1895. **S FWN** (*O. gracilis* Sm.) Wälder üm Wöllersdorf (7)
70. *O. cruenta* β *major* Vis. April 14, 1902. **S FvT** (*O. gracilis* Sm.) Miramarstrasse bei Barcola (4)
71. *O. ephederae* July 13, 1902. **S FvT** (*O. hederiae* Duby) auf dem Epheu in der Laubengängen von Miramare (6)
72. *O. gallii* April 17, 1902. **S FvT** (*O. caryophyllacea* Sm.) Abhänge der Miramarstrasse bei Barcola (5)
73. *O. laserpitii sileris* Rap. August, 1876. **H FA** (*O. laserpitii-sileris* Reut. ex Jord.) In petrosis alpinis rarissima Schneeberg (Bockgrube unico loco) (2)
74. *O. livida* Sendt. May 30, 1877. **Fr S** (*O. minor* Sm.) Parasitica ad radices *Helichrysi angustifolii* in collibus prope Pola Istriae solo calc., alt. 50 m (3)
75. *O. major* L. June 21, 1870. **S FW** (*O. caryophyllacea* Sm.) Schafberg bei Dornbach (1)
76. *O. major* Meyer May, 1894. **S FN** (*O. caryophyllacea* Sm.) um Wöllersdorf (1)
77. *O. minor* Sutt. July 19, 1878. **K** (*O. minor* Sm.) in agere *Trifolii pratensis*, 685 met. s. m., prope Wolfegg (Sueviae superioris) hoc anno primum et magno numero inventam (2)
78. *O. minor* Sutton May, 1880. **SFD** (*O. minor* Sm.) auf Leguminosen zwischen dem steinpflaster der Festgs mauern Cattaro (1)
79. *O. minor* Sutton? June 3, 1885. **S FP** (*O. minor* Sm.) auf Leguminosen in Wäldchen beim Dorfe Kruhel n. Przemysl (1)
80. *O. picridis* F.W. Schlz. June 14, 1877. **Fr** (*O. artemisiae-campestris* Gaudin) Hügel um Pola. Diese vom M. Michele. Auf Picris hieracioides (2)
81. *O. ramosa* L. September 6, 1873. **Tü** (*O. ramosa* L.) Mahlberg (Baden) (1)
82. *O. ramosa* L. = *O. caerulea* Alsch. May 29, 1879. **S FD** (*O. ramosa* L.) paras. sup. *Rosmarinum* in ins. Lesina (4)
83. *O. ramosa* L. = *Phelippaca ramosa* C.A. Mey May, 1880. **S FD** (*O. ramosa* L.) Giovanni di Cattaro /:Blüthen violett:/ (2)
84. *O. rubens* Wallr. June 11, 1885. **S FP** (*O. lutea* Baumg.) Leguminosen am Tatarenhügel b. Przemysl (1)
85. *O. teucrii* F.W.? May 19, 1901. **S FvT** (*O. teucrii* Holandre) ober d. strasse won Miramare (2)
86. *Pedicularis acaulis* Scop. May 20, 1877. **Fr** (*P. acaulis* Scop.) Istrien. Bergwiesen des M. Maggiore (2)
87. *P. asplenifolia* Flörke July 24, 1872. **G** (*P. asplenifolia* Flörke ex Willd.) Tirol austr. orient. im loc. frigidis mte Kasermandl in mte Schleinitz sol. schistaceo 8000' (3)
88. *P. campestris* Grisb. May 22, 1873. **Fr** (*P. comosa* L. ssp. *campestris*/Griseb. & Schenk/ Soó) Siebenbürgen. Comitat Kolos. Bergwiesen bei Klausenburg, Tert. Tegel 480 m (2)
89. *P. canadensis* L. **Bn** (*P. canadensis* L.) Peoria, Illinois (1)
90. *P. foliosa* L. July, 1876. **Si S** (*P. foliosa* L.) Localité Chasseral, Jura neuchatelois Station Lieux pierreux et frais Altitude 1300-1400 m (2)
91. *P. friederici-augusti* Tommasini May, 1872. **Ba** (*P. friederici-augusti* Tomm.) 520.Slavnic (2)

92. *P. friderici augusti* (Tommasini) May 25, 1873. **Kü HK** (*P. friderici-augusti* Tomm.) No 520üm Trieste Slavnik (5)
 93. *P. gyroflexa* Gaud. May 23, 1875. **A** (*P. gyroflexa* Vill.) Corni di Canzo (3)
 94. *P. gyroflexa* Vill. non DC. = *P. canisia* Gaud. July 29, 1875. **JS** (*P. gyroflexa* Vill.) Localité Mont Cima (Italie) Station Paturages au sud du lac Altitude 2000 met (3)
 95. *P. hacquetii* Graf. August 13, 1874. **Bo FT** (*P. hacquetii* Graf) in graminosis rupium ad lacum "Zanóga" alpium Retyezát 6500' (1)
 96. *P. hirsuta* L. July 26, 1868. **Z** (*P. hirsuta* L.) Norge, Finmarken, Talvig in alpe Wassbottenfjellet (1)
 97. *P. incarnata* Jasq. July, 1875. **R FC** (*P. rostratospicata* Crantz) Mittagsgogl, Grenzspitz (5)
 98. *P. jacquinii* Koch August, 1871. **H FO** (*P. rostratocapitata* Crantz) aüf der Raxalpe (2)
 99. *P. jacquinii* Koch July, 1878. **H FA** (*P. rostratocapitata* Crantz) In pascuis alpinis mt. Schneeberg 5-6000' sol. calc. (2)
 100. *P. jacquinii* Koch July 13, 1897. **S FWN** (*P. rostratocapitata* Crantz) am Waxriegel das Schneeberges (3)
 101. *P. kernerii* Huter 1871 *α pallens* (*P. elongata x gyroflexa*) July 5, 1873. **H/P** (*P. elongata* A. Kern.) Venetia in pratis et pascuis mte Serva pr. Belluno sol. calc. 4-6000' (2)
 102. *P. lapponica* L. July 18, 1868. **Z** (*P. lapponica* L.) Norge, Finmarken, Alten in alpe Skaadavara (2)
 103. *P. lapponica* L. June 25, 1870. **Z/W** (*P. lapponica* L.) Norvegia: Dovre, Fogstuen in pascuis (3)
 104. *P. othantha* Griseb. June 25, 1871. **Ja J** (*P. othantha* Griseb.) In regionis summae m. Balkan prope Kalofer pascuis (2)
 105. *P. palustris* L. June 7, 1897. **S FWN** (*P. palustris* L.) Wiesen bei Stollhof (2)
 106. *P. palustris* L. **Ay HA** (*P. palustris* L.) Frankreich (1)
 107. *P. portenschlagii* Sauter May, July **Bm FvS** (*P. portenschlagii* Saut. ex Rchb.) am Zinken bei Secau (5)
 108. *P. pyrenaica* Gay. July, 1873. **M** (*P. pyrenaica* J. Gay) Gavarnie, Htes Pyrénées (3)
 109. *P. recutita* L. July **Bm FN** (*P. recutita* L.) Raxalpe (3)
 110. *P. rosea* W. July **Bm FN** (*P. rosea* Wulfen) Raxalpe (5)
 111. *P. rosea* Wulf. July **Fr** (*P. rosea* Wulfen) Mittagsgogel & Zweispitz bei Malborgeth (4)
 112. *P. sylvatica* L. June, 1865. **Be** (*P. sylvatica* L.) Im Ryssby (3)
 113. *P. sylvatica* L. June, 1873. **Bm FN** (*P. sylvatica* L.) Puchberg (3)
 114. *P. tuberosa* L. June, 1870. **Gr** (*P. tuberosa* L.) Tirol. Alpe Sella b. Leviro (2)
 115. *P. verticillata* L. August, 1871. **H FR** (*P. verticillata* L.) Auf Triften bei den Liebtenbern hütten (2)
 116. *P. verticillata* L. July 13, 1897. **S FWN** (*P. verticillata* L.) am Waxriegel d. Schneeberges (4)
 117. *P. verticillata* L. August 8, 1899. **S FWN** (*P. verticillata* L.) am Waxriegel das Schneeberges (7)
 118. *Rhinanthus alpinus* Baumg. August 20., 1874. **Bo FT** (*Rh. riphaeus* Krock.) in graminosis vallis Valeriaska subalpe Retyezát copiose 4600' (3)
 119. *Rh. alpinus* Baumg. August 15, 1893. **S FWN** (*Rh. riphaeus* Krock.) am Alpl des Schneeberges (2)
 120. *Rh. crista galli* June 24, 1878. **S FD** (*Rh. crista-galli* L.) auf Wiesen beim Wachhaus Cerequize in der Krivošie (3)
 121. *Rh. crista galli* L. *γ hirsutus* June 14, 1894. **S FWN** (*Rh. crista-galli* L.) Wiesen in der neüer Wald nächst der Teichmühle (1)
 121. *Rh. major* Ehrh. August, 1881. **S FB** (*Rh. major* L.) zwischen Feldern /:Getreide:/ beim Wellemin am Fusse des Milleschauer (1)
 122. *Rh. major* Ehrh. May 30, 1885. **S FP** (*Rh. major* L.) Wiesen r.v.d. Strasse nach Buda b. Przemysl (1)
 123. *Rh. minor* Ehrh. June 18, 1881. **S FB** (*Rh. minor* L.) Waldwiesen um Leitmeritz (4)
 124. *Rh. minor* Ehrh. *β fallax* May 30, 1885. **S FP** (*Rh. minor* L.) feuchte Wiesen bei Kruhel Przl (5)
 125. *Tozzia alpina* L. June, 1873. **Bm FN** (*T. alpina* L.) Am Obersberge, in der Schwarzau im Gebirge (3)
 126. *Trixago apula* Stev. May 8, 1874. **Hu S** (*Bartsia trixago* L.) Bords du prairies maritimes à l'Almanare près d'Hyères (Var) (3)

The total number of the herbarium sheets for the analysed family is 127 (with 434 samples of herbal plants). The majority of the plants was collected in Europe (121 herbarium sheets) and 6 herbarium sheets are from North America.

Most of the herbarium samples were collected in the area of Austria (30 herbarium sheets) and: Czech Republic (19), Italy (14), France (11), Switzerland (8), Croatia (7), Poland (7), USA (6), Montenegro (5), Romania (5), Germany (4), Slovenia (4), Norway (3). One herbarium sheet was collected in: Bulgaria, Hungary, Spain and Sweden.

According to the affiliation to a particular herbarium collection in the analysed families or their parts the most represented is Flora Böhmens (12) - including Flora von Böhmen collection and Flora von N. Oesterreich (12) - including Flora von Oesterreich collection. This is followed by other collections, such as: Flora von Wr. Neustadt (10), Société Helvétique (9), Flora Dalmatiens (8), Flora von Triest (7), Flora von oesterr. Polen (6), Flora Gallica exsiccata (4), Flora Transsilvaniae (4) - including Flora transsilvanica collection and others. In the part of the herbarium which has already been analysed (compare with: MITIĆ et al., 2008, 2010-2011, 2011, 2012, 2013; VLADOVIĆ et al., 2007, 2009, 2010, 2012, 2013a, 2013b, 2014a, 2014b, 2015, 2017; ŽEVARNJA et al., 2008, 2009, 2010a, 2010b, 2011, 2013a, 2013b, 2013c, 2014a, 2014b, 2014c, 2015), three new collections are mentioned and there are: Flora Algovica (1 herbarium sheet), Janka iter turcicum a. 1871. (1 herbarium sheet) and Reise durch das südliche Spanien 1873. (1 herbarium sheet). There are 36 herbarium sheets that are unmarked and therefore we do not know which herbarium collection they belong to.

Most of the samples of the herbarium plants were collected by Studniczka himself (53 herbarium sheets), while others were sent to him by: Freyn (13), Brandmayer (5), Favrat (5), Gandoger (5), Halácsy (4), Kumlien (3), Borbás (3)

and others. In the part of the herbarium which has already been analysed, the following botanists or collectors of the herbal material are mentioned for the first time - Bergh A., Führer and Türckheim.

The oldest herbarium sheet dates from 1865, whereas the newest ones date from 1904. The vast majority of the herbarium sheets (68) was collected during the period 1870 - 1880. The exact year of collection miss from 12 herbarium labels.

According to Studniczka, within 127 herbarium sheets, there are 13 genera with 81 species and 9 varieties.

CONCLUSIONS

In this paper, there are mentioned herbarium sheets from Romania that could be important as a contribution to the flora of Romania and they are: *Euphrasia salisburgensis* Funk July 18, 1876. **B** Ft (*E. salisburgensis* Funck ex Hoppe) In rupestribus subalpinis: Kronstadt (6), *Melampyrum saxosum* Baumg. August 21, 1874. **Bo** FT (*M. carpathicum* Schult.) in graminosis vallis Valeriaska subalpe Retezát 4100' alt. (3), *Pedicularis campestris* Griseb. May 22, 1873. **Fr** (*P. comosa* L. ssp. *campestris* /Griseb. & Schenk/ Soó) Siebenbürgen. Comitatus Kolos. Bergwiesen bei Klausenburg. Tert. Tegel 480 m (2), *Pedicularis hacquetii* Graf. August 13, 1874. **Bo** FT (*P. hacquetii* Graf) in graminosis rupium ad lacum "Zanóga" alpium Retezát 6500' (1) and *Rhinanthus alpinus* Baumg. August 20, 1874. **Bo** FT (*Rh. riphaeus* Krock.) in graminosis vallis Valeriaska subalpe Retezát copiose 4600' (3).

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