

## PÓCS' ROSE (*ROSA POCSII* KER.-NAGY), DISTRIBUTION AND NEW LOCALITIES OF AN ENDEMIC ROSE SPECIES IN CARPATHIAN BASIN

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**Abstract:** In the current article I would like to present a little-known microspecies, the Pócs' rose (*Rosa pocsii* KER.-NAGY). In addition to the morphological description of the Pócs' rose, I describe the distribution of the species based on the literature data and after the revision of herbarium collection I publish ten new localities for endemic Pócs' rose.

**Keywords:** Sect. *Rubiginosae*, *Rosa micrantha* BORR. ex SM. aggregate

### INTRODUCTION

The rose (*Rosa* L.) genus is very complex group in Carpathian Basin, comprised of ten groups (sections) with 40 native species as well as 22 natural hybrids that grow in this ecological-geographic region. The largest group is the section *Rubiginosae* DC., these roses have fragrant glands on the leaflets. The revision of the genus was carried out in 2005 and 2012, and as a result of this work, a new species was described. I dedicated this new taxon to eminent botanist, Tamás Pócs and named it *Rosa pocsii* (Kerényi-Nagy 2012).

### Morphological characterisation of *Rosa pocsii* KER.-NAGY

The microspecies belongs to the section of *Rubiginosae*, aggregate of *R. micrantha* BORRER ex SM. Differentiating features: it differs from *Rosa micrantha* by having glandular leaflet upper surface.

The *Rosa pocsii* is a shrub with the height of 180–200 cm. Branches support only one type of prickles, they are bent in an arch, slender, flattened, often close in pairs. Stipules are broad,



slightly auriculate, ears are glandular underneath. Midrib glandular, pubescent and prickly. Leaves 5 foliolate, leaflets are small (1.2–1.5 cm long and 1.2–1.5 cm wide), round, touching or even overlapping, richly glandular beneath and short hairy. Bract small, narrow lanceolate, covering the stalk and partially the hypanthium's base, apical region of glandular beneath. Stalk glandular. Receptacle eglandular. Sepals pedicular glandulose. Flower is small (cca. 3 cm), light pink. Rosehip is oval, small. Sepals recurving and deciduous (*Figures 1 and 2*). The species only has one other infraspecific taxon: var. *karacsonyi* KER.-NAGY, which differs from var. *pocsii*: leaflets and petiole full of short hair, petiole has only a few prickles (1–1 prickle). I have named this variety after Carol Karácsonyi.



**Figure 1.** *Rosa pocsii* Ker.-Nagy shrub of holotype.

### **Distribution of *Rosa pocsii* KER.-NAGY**

The distribution of *Rosa pocsii* is only known in Carpathian Basin, it grows on edge of lowlands, on the collin region. Based on the revisions of herbarium collections and numerous fieldtrips the known distributions are in Slovakia with 8, Ukraine with 1, Romania with 12 and Hungary with 1 localities:

**Localities of Slovakia** (Kerényi-Nagy *et al.* 2014): Bratislava – Devínska Kobyla, Čebovce, Čachtice, Jablonic, Kováčovské kopce close to Helemba and Leľa, Lutov, Dreveník.

**Locality of Ukraine** (Kerényi-Nagy *et al.* 2014): Буштино [Bustino].

**Localities of Romania:** Benesat (var. *karacsonyi*, Kerényi-Nagy *et al.* 2014), Buciumi (Kerényi-Nagy *et al.* 2016), Chieşd (locus classicus of *Rosa pocsii* var. *karacsonyii*, Kerényi-Nagy 2013), Cizer (Kerényi-Nagy *et al.* 2016), Hargitha mountains (Kui 2014), Jac (Kerényi-Nagy *et al.* 2016), Kozla (Kerényi-Nagy *et al.* 2016), Mierța (Kerényi-Nagy *et al.* 2016), Moigrad (Kerényi-Nagy *et al.* 2016), Petrindu (Kerényi-Nagy *et al.* 2016), Poienița (Kerényi-Nagy *et al.* 2016), Săcășeni (locus classicus of *Rosa pocsii*, Kerényi-Nagy 2012; Kerényi-Nagy *et al.* 2016).

**Locality of Hungary:** Gödöllő Hills (in herbarium collection of L. Timkó, 2013 in Kerényi-Nagy and Penksza 2015).

## MATERIAL AND METHODS

The herbarium collection of *Rosa micrantha* sensu lato of Carpatho-Pannonian region in the Hungarian Natural History Museum (BP) was reviewed and *Rosa pocsii* herbarium specimens were separated.

## RESULTS

Through the revision of all herbarium specimens of *Rosa micrantha* sensu lato, I have found 12 specimens of *Rosa pocsii* from ten new localities. The new records of *Rosa pocsii* are enumerated below:

### New localities in Hungary

**Ásványráró.** „No. 262358 in BP. *Rosa micrantha* Sm. v. *operta* Pug. Comit. Győr, in prato prope Ásvány „Ujsziget” dictr. bibe kopasz. legit. 10.VI.1928. Dr. S. Polgár. Rev. Á. Degen.”; „No. 262359 in BP. *Rosa micrantha* Sm. *operta* Pug. Ásvány „Ujsziget” rétjein. 10.VI.1928. Dr. S. Polgár. virágos ágai tuskések, átmenet a Lemani felé. Rev. Á. Degen.”

**Darufalva.** „No. 90177 in BP. *Rosa micrantha* Sm. 1902. jul. 8. Comit. Sopron. In locis apricis ad margines silvarum prope Darufalva. E. Gombocz.”

**Kőszeg.** „No. 99196 in BP. *Rosa micrantha* Sm. Kőszeg legelő VI/5 1890. Sz. Dr. Waisbecker”

- Iván.** „No. 00013350 in BP. *Rosa micrantha* BORRER ex SM. Győr-Moson-Sopron megye, Iván, Erdőlakmajortól 0,8 km-re, cserjésben, 149 m. s. m. (8567.2) Leg. et det. Király G. 10.06.2007.”
- Pilisszentiván.** „No. 36598 in BP. *Rosa micrantha* SM. Comit. Pest. in monte Kis-Szénáshegy supra Pilis-Szentiván. Legi d. 26. V. 1918. Degen Á.”
- Pomáz.** „No. 436513 in BP. *Rosa* sp. Comit. Pest. In decliv. calcar. orient. montis Oszoly prope Pomáz. d. 3. jun. 1945. Alt. s. met. ca: 250. Boros Ádám.”; „No. 291995 in BP. *Rosa micrantha* SM. Pomáz, Kiscsikóvár felé, út mellett, 1954. jun. 13. Jávorka–Csapody.”
- Szurdokpüspöki.** „No. 99196 in BP. *Rosa (micrantha) operta* PUG. diff. rami floriferi aculeatis. Mátra. A Lapis major alatti lejtőn, a kőbányából vezető szerpentin út mentén, cserjés legelőn, agyagos, köves helyen. Heves. Szurdokpüspöki 1914 VI.22. Hulják. De. Degen Á.”

## New localities in Romania

- Oradea.** Zam. „No. 99182 in BP. *Rosa micrantha* SM. Engl. Bot. IV. + 2490 f. 713! Solum petioli pilis glandulosis longioribus, et superficie foliorum forma glabro? ab hoc diversa (R. Jundzillii. Hungariae orient: secus fossus ad Pecze-Szt. Márton infra procul Magovaradini L. 1879. jun. 24. Simkovics L.”
- Zam.** „No. 99176 in BP. *Rosa micrantha* SMITT. Frutex e minoribus, laxis! Transsilvaniae: in collibus argilloni apicis calidis ad pagum Zám. L. 1884 jun 22 Simkovics L.”; „No. 592068-89210 in BP (duplicata). *Rosa micrantha* SMITH. Transsilvaniae: in collibus argillosis apicis calidis ad pagum Zám. 1884 jun 22 Simkovics L.”
- Agris.** „No. 99184 in BP. *Rosa micrantha* SM. Hungariae cottus Arad. In collibus apricis calcar. ad Agris. 885 máj 23. Simonkai L.”

## DISCUSSION

As the above examples show, even the most thoroughly investigated areas of Carpathian Basin can provide new records, that call attention to the still inadequately researched roses of this area, waiting for new discoveries. The *Rosa pocsii* is a recently described species, only known from a few localities. After the revision of the collection at the Hungarian Natural History Museum seven new localities were found in Hungary and three in Romania.

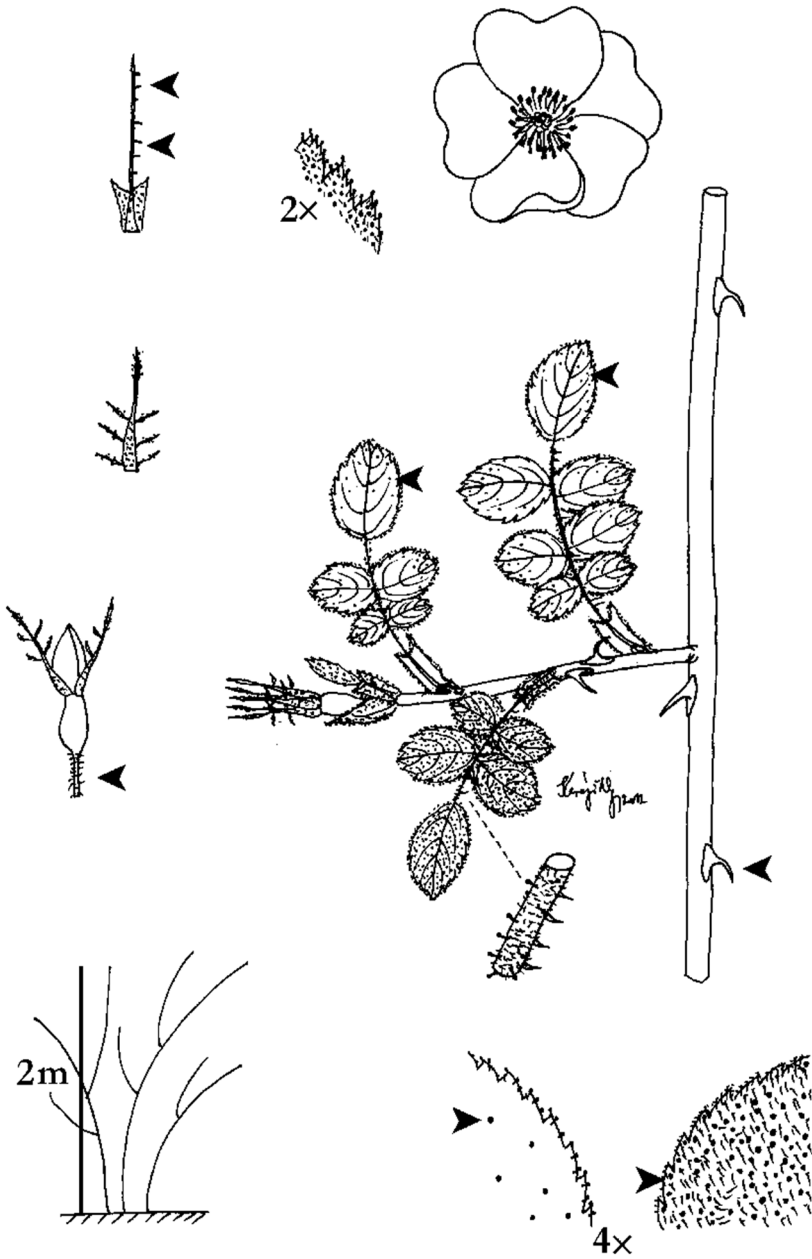
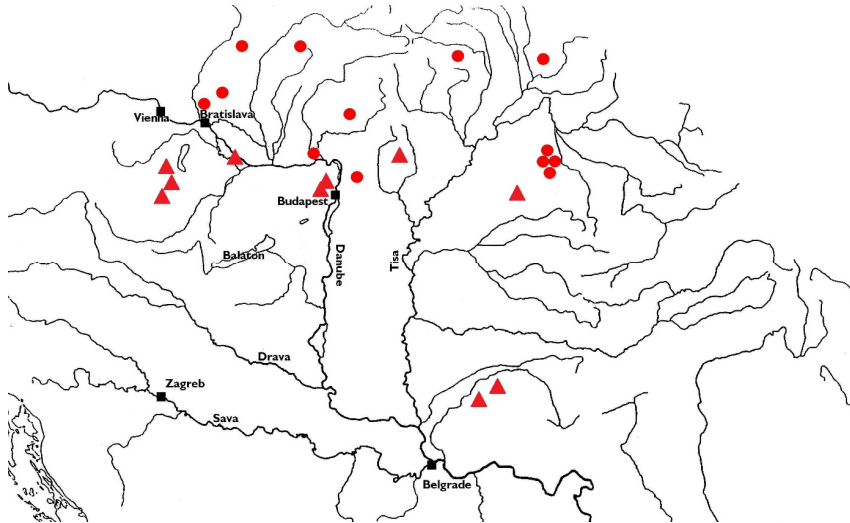


Figure 2. Morphological characters of *Rosa pocsii* (Kerényi-Nagy 2012).



**Figure 3.** Distribution of *Rosa pocsii* in Carpathian Basin: ● localities of literature data, ▲ new localities.

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