






# *Galanthus elwesii* Hook.f. (Amaryllidaceae), a naturalized species in Serbia (chorology, ecology, and taxonomy)

Filip Jovanović<sup>1</sup> , Sonja Braunović<sup>1</sup> , Goran Češljar<sup>1</sup> ,  
Saša Eremija<sup>1</sup>  & Ljubinko Rakonjac<sup>1</sup> 

**Key words:** Balkan flora, distribution, habitat, morphology, non-native species, snowdrops

**Ključne besede:** flora Balkana, razširjenost, habitat, morfologija, tujerodne vrste, mali zvončki

## Abstract

The distribution and ecology of naturalized *Galanthus elwesii* Hook.f. in Serbia, is presented for the first time, along with notes on the species' morphology and taxonomy, comparing it to the native and morphologically similar *G. graecus* Orph. ex Boiss. To date, *G. elwesii* has been recorded at 16 localities distributed across eight floristic regions in the country, as herein mapped and listed with chorological and ecological data. It occurs in a variety of habitats, such as mixed deciduous forests (e.g., *Fagus sylvatica* L., *Acer campestre* L., *Quercus* spp.), scrub, forest clearings and meadows, on various substrates (limestone, loess, sand, etc.), at altitudes from ca. 80 m to 850 m. Further research is required to assess the ecological impacts of this non-native species and its potential interactions with native flora in Serbia.

## Izveček

Prvič predstavljamo razširjenost in ekologijo vrste *Galanthus elwesii* Hook.f., ki je v Srbiji naturalizirana vrsta. Objavljamo tudi podatke o morfologiji in taksonomiji v primerjavi z domorodno in morfološko podobno vrsto *G. graecus* Orph. ex Boiss. Dosedaj je bila vrsta *G. elwesii* zabeležena na 16 lokacijah v osmih florističnih regijah v državi in jih v članku predstavljamo s horološkimi in ekološkimi podatki. Pojavlja se na različnih rastiščih, kot so mešani listopadni gozdovi (npr., *Fagus sylvatica* L., *Acer campestre* L., *Quercus* spp.), v grmiščih, na gozdnih posekah in travnikih na različnih podlagah (apnenec, les, pesek itd.) in različnih nadmorskih višinah od približno 80 do 850 m. Za ugotavljanje ekološkega vpliva te tujerodne vrste in morebitnih interakcij z avtohtono floro Srbije so potrebne nadaljnje raziskave.

Corresponding author:  
Filip Jovanović  
E-mail: filip.jovanovic@forest.org.rs

Received: 4. 1. 2026  
Accepted: 16. 3. 2026



## Introduction

The genus *Galanthus* L. (snowdrops) (Amaryllidaceae) currently comprises 26 species of scapose, bulbous perennials native to Europe and Asia Minor (Davis, 1999, 2001; Davis et al., 2025; Zubov et al., 2025). Until recently, *G. elwesii* Hook.f. and *G. graecus* Orph. ex Boiss. were considered to be conspecific, in agreement with Davis (1999, 2001). However, based on molecular data (Rønsted et al., 2013), re-evaluation of herbarium specimens and the latest fieldwork, it has been shown that snowdrops occurring in southeastern Europe, and formerly known as *G. graecus*, represent a distinct species compared to *G. elwesii* from Turkey (Davis et al., 2025). These species are morphologically very similar to one another because they both have two abaxial, green marks (apical and basal) on the inner perianth segments (except for *G. elwesii* var. *monostictus* P.D.Sell, which has a single apical mark), and their leaves have the same range of glaucous coloration. Nevertheless, *G. elwesii* from Turkey is usually a large plant with broad leaves that are always distinctly supervolute in vernation (i.e., one leaf folded around the other in bud). Conversely, “*G. elwesii* from Europe” (= *G. graecus*) is usually a smaller plant with narrow or medium broad leaves that are variable (applanate or supervolute) in vernation (Rønsted et al., 2013). Another species likely to be confused with *G. elwesii* and *G. graecus* is *G. gracilis* Čelak., which differs from the former two species in having leaves that are always strictly applanate in vernation (i.e., leaves held flat against each other in bud) (Davis, 1999, 2001).

Given that *Galanthus elwesii* is considered to be native to Turkey (Rønsted et al., 2013), the distribution of *G. graecus* can be defined as Bulgaria, North Macedonia, northeastern Greece, the eastern Aegean Islands (Khios, Lesvos, Samos and Thassos), southern Ukraine, Romania, Moldavia, and eastern Serbia (e.g., Bornmüller, 1925; Stjepanović-Veseličić, 1975; Davis, 1999, 2001, 2011; Jovanović et al., 2016). Due to different approaches and difficulties in classifying these species, the actual patterns of their distribution have remained uncertain. In addition, *G. elwesii* is introduced and naturalized in many European countries, such as the Netherlands, the United Kingdom (Davis, 2011) and Montenegro (Bubanja & Vuksanović, 2025). In Serbia (including Kosovo and Metohija regions), there are three native species of *Galanthus*: *G. nivalis* L., *G. graecus*, and *G. subalpinus* A.P.Davis & I.McEnery (Jovanović et al., 2016; Hashani et al., 2019; Millaku et al., 2025; Davis et al., 2025). *Galanthus elwesii* is commonly found as a garden plant in the country (Jovanović et al., 2014), but is also confirmed to occur spontaneously in the wild. The distribution of *G. graecus* in Serbia has been reported in literature under the name “*G. elwesii*” (Stojanović et al.,

2015; Jovanović et al., 2016; Bogosavljević & Zlatković, 2018), which can be supplemented by new field data for Mt. Šljivovički Vis, the vicinity of Telovac (V. Dimitrov, pers. comm.) and Neškovo Brdo, near Dimitrovgrad (B. Dimitrov, pers. comm.). However, considering that *G. elwesii* and *G. graecus* are recently separated taxa that are difficult to distinguish from one another, the exact distribution of *G. elwesii* in Serbia is unknown. In this paper, the distribution and ecology of *G. elwesii* as a naturalized species in Serbia is presented for the first time, and notes on the species’ morphology and taxonomy compared to the native and closely related *G. graecus* are given.

## Material and Methods

The present study is based on field survey, herbarium revisions, literature review and personal communications. Herbarium revisions were conducted at the Herbarium of the Institute of Botany and Botanical Garden “Jevremovac”, University of Belgrade (BEOU), the Herbarium of the Department of Biology and Ecology, Faculty of Natural Sciences and Mathematics, University of Novi Sad (BUNS), and the General Herbarium of the Natural History Museum in Belgrade (BEO) (herbarium acronyms according to Thiers, 2025 [continuously updated]). The analyzed plant material was identified using the taxonomic keys provided by Davis (1999, 2001), Jovanović et al. (2016) and Davis et al. (2025).

The distribution of naturalized *Galanthus elwesii* in Serbia is mapped using geolocated data and SimpleMappr (Shorthouse, 2010). In addition, chorological and ecological data on the investigated species are minutely presented and arranged by floristic regions. The floristic regionalization of the territory of Serbia used in this study follows Stevanović (1992) and Tomović et al. (2022). Flowering time and morphological characteristics of taxonomic value, such as leaf color and width, vernation, and variability of abaxial green marks on the inner perianth segments, were observed in each investigated population.

## Results and Discussion

### Taxonomy

In addition to the native species of the genus *Galanthus* in Serbia, *G. elwesii* var. *elwesii* was recorded as an introduced and naturalized taxon. Three native species of the genus in Serbia (*G. nivalis*, *G. subalpinus*, and *G. graecus*) are identified according to Davis et al. (2025). Conversely, *G. elwesii* is considered to be difficult to distinguish from the native and morphologically similar *G. graecus*. For this reason, we propose an identification key based on

recent fieldwork, morphological observations and critical revision of relevant literature (Adamović, 1901, 1911; Stern, 1956; Artjushenko, 1970, 1974; Delipavlov, 1971; Stjepanović-Veseličić, 1975; Davis, 1999, 2001; Rønsted et al., 2013; Jovanović et al., 2016, 2018; Jovanović, 2019). As shown in the key, the main morphological characters for delimiting *G. elwesii* and *G. graecus* are vernation, the width and position of leaves at maturity, and the morphology of the apex of inner perianth segments. Similar patterns of morphological variation have been observed for *G. elwesii* in Turkey (Rønsted et al., 2013), and *G. graecus* in Greece (Kamari, 1981, 1982; Davis, 1999; Lafranchis & Sfikas, 2009; Rønsted et al., 2013), Ukraine (Rønsted et al., 2013) and Bulgaria (Delipavlov, 1971).

### Key to the identification of *Galanthus graecus* and *G. elwesii*:

1. Leaves applanate (mostly in seedlings and juvenile plants) or subrevolute to supervolute in vernation (in mature plants); leaf blades usually 0.7–1.5 cm wide, slightly twisted to twisted at maturity; inner perianth segments frequently reflexed (flared) at the apex; native to SE Europe and the Balkans ..... *G. graecus* (Figure 1a)
  - Leaves supervolute in vernation; leaf blades usually 1.5–3.5 cm wide, straight or infrequently slightly twisted at maturity; inner perianth segments ± flat (not flared) at the apex; native to Turkey (in Asia.....*G. elwesii* (Figure 1b)

### Chorology and ecology

The distribution of naturalized *Galanthus elwesii* in Serbia is shown in Figure 3 and listed with chorological and ecological data. At the present time, the species is known from 16 localities (including ruderal sites) distributed across eight floristic regions (Bačka, Šumadija, Pomoravlje, C Serbia, NE Serbia, E Serbia, SE Serbia, and S Serbia). Conversely, *G. graecus* is a narrowly distributed species in Serbia, mostly found in the eastern part of the country (Jovanović et al., 2016). Comparing the obtained results to the literature, it can be argued that the record of *G. graecus* for Brestovac surroundings (Petković et al., 1982) represented naturalized *G. elwesii*, given that only the latter species is found in the area. In Serbia, *G. elwesii* var. *elwesii* is the most commonly cultivated snowdrop taxon (Jovanović et al., 2014), being robust, decorative, free-flowering and easy to grow (Davis, 2001). *Galanthus elwesii* var. *monostictus* may also occur in cultivation, but has not been found naturalized in Serbia. There are no records of when *G. elwesii* was first introduced to the country, but the earliest cultivation in the Balkans may date back to the Ottoman period (XV–XIX century).

### Chorological and ecological data on *Galanthus elwesii* in Serbia arranged by floristic regions:

BAČKA: Subotica: Subotica Sands (Daščanska Šuma), ca. 46.146944, 19.613611, forest clearing, sand, ca. 130 m (F. Jovanović, field obs.).



**Figure 1:** Two morphologically similar species of *Galanthus* L. in Serbia: a) native *Galanthus graecus* Orph. ex Boiss. (Crni Vrh, the vicinity of Pirota), b) naturalized *G. elwesii* Hook.f. (Brestovačka Spa, near Bor). Photographs: F. Jovanović (a), P. Petrović (b).

**Slika 1:** Dve morfološki podobni vrsti rodu *Galanthus* L. v Srbiji: a) domorodna *Galanthus graecus* Orph. ex Boiss. (Crni Vrh, bližina Pirota), b) naturalizirana *G. elwesii* Hook.f. (Brestovačka Spa, v bližini Bora). Fotografiji: F. Jovanović (a), P. Petrović (b).

ŠUMADIJA: Beograd: Miljackovačka Šuma (Rakovica municipality hall), ca. 44.742522, 20.449945, deciduous forest (primarily *Quercus* spp.), marls, clays and siltstones, 148 m (leg./det. F. Jovanović, 07.02.2026, 18086, BEOU!); Grocka: Vrčin, ca. 44.665556, 20.577500, meadow, loess, 151 m (M. Vujić, pers. comm.); Gornji Milanovac: Brusnica (St. Nicholas church), ca. 44.015889, 20.444306, forest, sandstone, 415 m (F. Jovanović, field obs.).

POMORAVLJE: Smederevo: Osipaonica, ca. 44.534722, 21.056306, near a railway station (R. Marinković, pers. comm.); Svilajnac: Crkvenačko Blato, ca. 44.197222, 21.171111, abandoned quarry near a cemetery (Figure 2a) (leg. M. Niketić & G. Tomović, 30.01.2021, s.n., BEO!, det. F. Jovanović, 08.08.2025).

C SERBIA: Kruševac: Gari, ca. 43.548874, 21.299349, streamside in a mixed deciduous forest (e.g., *Quercus cerris* L., *Acer campestre* L.), clays, sands and gravels, 235 m (leg. F. Jovanović & G. Češljarić, det. F. Jovanović, 04.02.2026, 18088, BEOU!); Mudrakovac, ca. 43.559270, 21.323139, scrub (e.g., *A. tataricum* L., *Prunus spinosa* L.), clays, sands and gravels, 242 m (Figure 2b) (leg. F. Jovanović & G. Češljarić, det. F. Jovanović, 04.02.2026, 18087, BEOU!).

NE SERBIA: Bor: Brestovačka Spa, ca. 44.056667, 22.043889, forest (*Fagus sylvatica* L.), ca. 400 m (Figure 1b) (P. Petrović, photo).

E SERBIA: Niš: Popova Glava, ca. 43.367500, 21.947222, meadow, limestone, ca. 350 m (F. Jovanović, field obs.); Mt. Babička Gora, ca. 43.125000, 21.991389, bushes

near a mixed deciduous forest (e.g., *Robinia pseudo-acacia* L., *Quercus cerris*), ca. 400 m (S. Stevčić, pers. comm.); Pirot: Provalija, ca. 43.171944, 22.590833, plantation (*Pinus nigra* J.F. Arnold), sand and gravel, 435 m (F. Jovanović, field. obs.); Sarlah, ca. 43.163056, 22.568056, orchard near the road, limestone, 450 m (ibid.); Oreovica, ca. 43.242056, 22.557000, mixed deciduous forest (primarily *Quercus* spp.), ca. 500 m (B. Đorđević, pers. comm.).

SE SERBIA: Vranjska Banja, ca. 42.536444, 22.055556 (leg. M. Velinov, det. Z. Krivošej, 171, BEOU!, subnom. *G. graecus*, rev. F. Jovanović, 31.03.2025).

S SERBIA: Vranje: Francuska Street, ca. 42.532778, 21.895389, wet ruderal sites (Stojanović et al., 2015; leg./det. ?, 21.03.2000, 45236, BUNS!, subnom. *G. graecus*, rev. F. Jovanović, 19.06.2013).

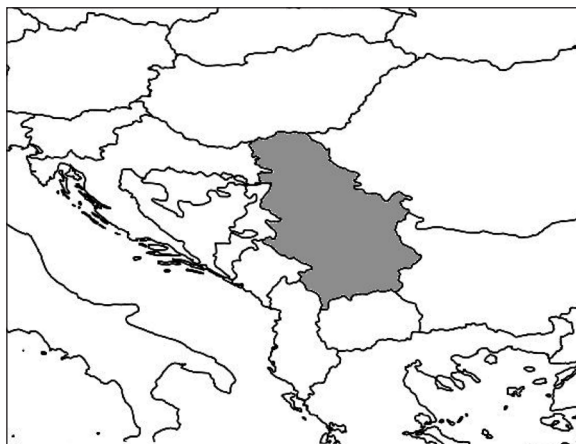
In Serbia, *Galanthus elwesii* is found in a variety of habitats, including mixed deciduous forests (e.g., *Fagus sylvatica*, *Acer campestre*, *Quercus* spp.), plantations (*Pinus nigra*), orchards, scrub, forest clearings and meadows, on various substrates (limestone, loess, sand, etc.), at altitudes from ca. 80 m to 850 m, but most commonly above 400 m. Similar findings have been reported for Montenegro, the city of Berane and its surroundings (Donja Ržanica), where this species occurs spontaneously in meadows, riversides and forest margins, at altitudes from 663 m to 804 m (Bubanja & Vuksanović, 2025). Conversely, in its natural range, *G. elwesii* is mainly a mountainous plant, occurring at altitudes above 800 m and up to 1600 m. It does not grow in areas that have been intensively affected

by human activities, such as pastures and clear-cut forests (Davis, 2001). In addition, *G. graecus* in Serbia is mostly found in montane beech forests, at altitudes above 750 m and up to 1350 m (Jovanović et al., 2016).



**Figure 2:** Specimens of naturalized *Galanthus elwesii* Hook.f. in Serbia: a) collected at Crkvenačko Blato, near Svilajnac (leg. M. Niketić & G. Tomović, s.n., BEO!, det. F. Jovanović); b) observed in Mudrakovac, near Kruševac. Photographs: F. Jovanović (a, b).

**Slika 2:** Primerki naturalizirane vrste *Galanthus elwesii* Hook.f. in Serbia: a) nabrano pri Crkvenačkom Blatu u blizini mesta Svilajnac (leg. M. Niketić & G. Tomović, s.n., BEO!, det. F. Jovanović); b) opaženo pri naselju Mudrakovac u blizini Kruševca. Fotografiji: F. Jovanović (a, b).

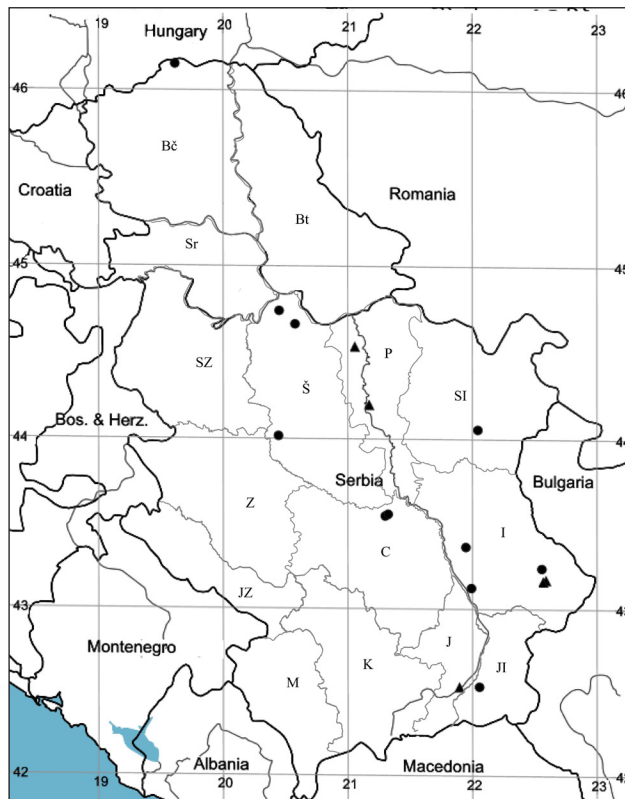


**Figure 3:** Distribution of naturalized *Galanthus elwesii* Hook.f. in Serbia (southeastern Europe) based on herbarium collections, field observations and personal communications.

Black circles – natural sites, black triangles – ruderal sites. Floristic regions: Bč – Bačka, Bt – Banat, Sr – Srem, SZ – Northwestern Serbia, Z – Western Serbia, JZ – Southwestern Serbia, Š – Šumadija, P – Pomoravlje, C – Central Serbia, SI – Northeastern Serbia, I – Eastern Serbia, JI – Southeastern Serbia, J – Southern Serbia, K – Kosovo, M – Metohija.

**Slika 3:** Razširjenost naturalizirane vrste *Galanthus elwesii* Hook.f. v Srbiji (jugovzhodna Evropa) na osnovi herbarijskih zbirki, terenskih opažanj in osebnih sporočil.

Črni krožci – naravna rastišča, črni trikotniki – ruderalna rastišča. Floristične regije: Bč – Bačka, Bt – Banat, Sr – Srem, SZ – severozahodna Srbija, Z – zahodna Srbija, JZ – jugozahodna Srbija, Š – Šumadija, P – Pomoravlje, C – srednja Srbija, SI – severovzhodna Srbija, I – vzhodna Srbija, JI – jugovzhodna Srbija, J – južna Srbija, K – Kosovo, M – Metohija.



Phenological observations revealed that *Galanthus elwesii* var. *elwesii* in Serbia flowers from mid-January to the beginning of March. In its natural range, this taxon flowers from February to May (Davis, 2001). The number of specimens per locality (ranging from several individuals to around one thousand individuals), their grouping habit and morphological similarity, along with the absence of fruits (capsules) with viable seeds, indicate clonal propagation of *G. elwesii* in Serbia. It is usually represented by large plants that have broad leaves and relatively large flowers similar to those found in cultivation (Davis, 1999, 2001). These observations support the hypothesis that *G. elwesii* in Serbia originated from cultivation and subsequently became naturalized.

## Conclusion

In Serbia, *Galanthus elwesii* Hook.f is an introduced and naturalized snowdrop species, presently found at 16 localities distributed across eight floristic regions. *Galanthus elwesii* is morphologically similar to *G. graecus* Orph. ex Boiss., native in the country, but it can be distinguished from the latter by its leaves that are (consistently) su-

pervolute in vernalization, usually broader (i.e., more than 1.5 cm wide) and straight (not twisted) at maturity, and the inner perianth segments are more or less straight (not flared) at the apex. It occurs in a variety of habitats, such as mixed deciduous forests (e.g., *Fagus sylvatica* L., *Acer campestre* L., *Quercus* spp.), scrub, forest clearings and meadows, on various substrates (limestone, loess, sand, etc.), at altitudes from ca. 80 m to 850 m but particularly above 400 m. Further research should be conducted before the ecological impacts of this non-native species in Serbia can be evaluated and its potential interactions with native flora assessed.

## Funding

The study was supported by the Serbian Ministry of Science, Technological Development and Innovation (Agreement No. 451-03-33/2026-03/200027).

## ORCID iDs

Filip Jovanović <https://orcid.org/0000-0002-4143-2497>  
 Sonja Braunović <https://orcid.org/0000-0002-1387-6955>  
 Goran Češljarić <https://orcid.org/0000-0003-0438-1050>  
 Saša Eremija <https://orcid.org/0000-0002-7365-721X>  
 Ljubinko Rakonjac <https://orcid.org/0000-0003-1486-0143>

## References

- Adamović, L. (1901). Novine za floru Kraljevine Srbije. *Prosvetni glasnik, Beograd*, 22(9), 1025–1040. [In Serbo-Croatian].
- Adamović, L. (1911). *Flora jugoistočne Srbije*. Jugoslovenska akademija znanosti i umjetnosti. [In Serbo-Croatian].
- Artjushenko, Z. T. (1970). *Amarillisovije (Amaryllidaceae Jaume St.-Hilaize) SSSR – morfologija, sistematika i ispolzovanie*. Akademia Nauk SSSR Moskva, Botanicheskii Institut V. L. Komarova. [In Russian].
- Artjushenko, Z. T. (1974). *Galanthus* L. (Amaryllidaceae) in Greece. *Annales Musei Goulandris*, 2, 9–21.
- Bogosavljević, S., & Zlatković, B. (2018). Report on the new floristic data from Serbia II. *Biologica Nyssana*, 9(2), 63–75. <https://doi.org/10.5281/zenodo.2538596>
- Bornmüller, J. (1925). Beiträge zur Flora Mazedoniens II. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie*, 40(136), 1–125. [In German].
- Bubanja, N., & Vuksanović, S. (2025). First finding of *Galanthus elwesii* Hook.f. (Amaryllidaceae) in Montenegro. In *8<sup>th</sup> Croatian Botanical Symposium, Osijek, Croatia, 3–6 September 2025* (p. 38). <https://www.hbod.hr/wp-content/uploads/2025/09/8HBS-knjiga-sazetaka.pdf>
- Davis, A. P. (1999). *The genus Galanthus*. Timber Press, Inc.
- Davis, A. P. (2001). The genus *Galanthus*: Snowdrops in the wild. In M. Bishop, A. P. Davis & J. Grimshaw (Eds.), *Snowdrops: A monograph of cultivated Galanthus* (pp. 9–63). The Griffin Press.
- Davis, A. (2011). *Galanthus elwesii*. The IUCN Red List of Threatened Species 2011: e.T164896A5935589. <https://dx.doi.org/10.2305/IUCN.UK.2011-1.RLTS.T164896A5935589.en> [last accessed 22 December 2025].
- Davis, A. P., McEnery, I., Csiba, L., Márquez-Corro, J. I., & Leitch, I. J. (2025). *Galanthus subalpinus* (Amaryllidaceae): a new species of snowdrop from the Western Balkans. *Kew Bulletin*, 80, 169–175. <https://doi.org/10.1007/s12225-024-10239-8>
- Delipavlov, D. (1971). Rod't *Galanthus* L. (kokiche) v Bulgarija. *Izvestiya na Botanicheskiya institut, Sofia*, 21, 161–167. [In Bulgarian].
- Hashani, Z., Maxhuni, Q., Ferizi, R., Abdurrahmani, A., & Mala, X. (2019). *Galanthus elwesii* Hook.f. (Amaryllidaceae) in the flora of Kosovo. *Hacquetia*, 18, 137–142. <https://doi.org/10.2478/hacq-2018-0012>
- Jovanović, F., Obratov-Petković, D., & Mačukanović-Jocić, M. (2014). Nektarska produkcija vrsta roda *Galanthus* L. (Amaryllidaceae) sa područja Srbije. *Glasnik Šumarskog fakulteta, Univerzitet u Beogradu*, 109, 85–96. <https://doi.org/10.2298/gsf1409085j> [In Serbian].
- Jovanović, F., Obratov-Petković, D., Niketić, M., & Vukojičić, S. (2016). Distribution of the genus *Galanthus* L. (Amaryllidaceae) in Serbia. *Botanica Serbica*, 40(1), 69–81. <https://doi.org/10.5281/zenodo.48864>
- Jovanović, F., Obratov-Petković, D., Bjedov, I., Živanović, I., Braunović, S., Ćirković-Mitrović, T., & Tomović, G. (2018). Morphological variability of snowdrops in the central part of the Balkan Peninsula. *HortScience*, 53(8), 1119–1124. <https://doi.org/10.21273/HORTSCI11315-18>
- Jovanović, F. (2019). *Taksonomija i ekologija vrsta roda Galanthus L. (Amaryllidaceae) u Srbiji* (UDC: 581.5582.573.21(497.11)(043.3)) [Doctoral dissertation, University of Belgrade]. National Repository of Dissertations in Serbia. <https://nardus.mpn.gov.rs/handle/123456789/17776> [In Serbian].
- Kamari, G. (1981). A biosystematic study of the genus *Galanthus* L. in Greece II (Cytology). *Botanika Chronika, Patras*, 1(2), 60–98.
- Kamari, G. (1982). A biosystematic study of the genus *Galanthus* L. in Greece I (Taxonomy). *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie*, 103(1), 107–135.
- Lafranchis, T., & Sfikas, G. (2009). *Flowers of Greece II*. Diatheo.
- Millaku, F., Krasniqi, E., & Berisha, N. (2025). An overview of internationally important plant taxa from Kosovo. *Hacquetia*, 24(1), 95–110. <https://doi.org/10.3986/hacq-2025-0009>
- Petković, B., Tatić, B., & Veljović, V. (1982). Rod *Galanthus* L. (Amaryllidaceae) u SR Srbiji. *Biosistematika*, 8, 111–116. [In Serbian].
- Rønsted, N., Zubov, D., Bruun-Lund, S., & Davis, A. P. (2013). Snowdrops falling slowly into place: An improved phylogeny for *Galanthus* (Amaryllidaceae). *Molecular Phylogenetics and Evolution*, 69, 205–217. <https://doi.org/10.1016/j.ympev.2013.05.019>
- Shorthouse, D. P. (2010). *SimpleMapper, an online tool to produce publication-quality point maps*. <http://www.simplemapper.net> [last accessed 11 March 2026].
- Stern, F. C. (1956). *Snowdrops and snowflakes*. The Royal Horticultural Society.
- Stevanović, V. (1992). Floristička podela teritorije Srbije sa pregledom viših horiona i odgovarajućih flornih elemenata. In M. Sarić (Ed.), *Flora Srbije 1* (pp. 47–56). Srpska akademija nauka i umetnosti. [In Serbian].
- Stjepanović-Veseličić, L. (1975). Fam. Amaryllidaceae Lindl. In M. Josifović (Ed.), *Flora SR Srbije VII* (pp. 596–605). Srpska akademija nauka i umetnosti. [In Serbian].
- Stojanović, V., Jelić, I., Rilak-Raćić, S., Perić, R., Sabovljević, M., & Lazarević, P. (2015). *Biljke od međunarodnog značaja u flori Srbije*. Zavod za zaštitu prirode Srbije. [In Serbian].
- Thiers, B. (2025 [continuously updated]). *Index Herbariorum: a global directory of public herbaria and associated staff*. New York Botanical Garden's Virtual Herbarium. <http://sweetgum.nybg.org/science/ih/> [last accessed 6 September 2025].
- Tomović, G., Vukojičić, S., Lakušić, D., Glišić, M., Tabašević, M., & Niketić, M. (2022). Rasprostranjenje taksona u Srbiji (areal karte sa UTM poljima 10x10 km). In V. Stevanović & M. Niketić (Eds.), *Flora Srbije 3* (pp. 347–388). Srpska akademija nauka i umetnosti. [In Serbian].
- Zubov, D., Rukšans, J., Alipour, S., & Kazemi, F. (2025). *Galanthus goletanicus* (Amaryllidaceae), a new nemoral species of snowdrop from the Alborz forests of northern Iran. *International Rock Gardener*, 184, 38. <https://www.srgc.net/documents/irg/250529174338IRG%20184.pdf>