

## DIVERSITY AND ECOLOGICAL ANALYSIS OF SERPENTINE FLORA IN THE KOSOVO SECTION OF THE IBAR RIVER VALLEY - COMPARISON WITH THE FLORA OF NEARBY REGIONS

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**Abstract.** Formation of serpentine flora and vegetation is primarily influenced by local geology and they represent an extraordinary area for botanical research studies (from both taxonomical and ecological perspective). During a sixteen-year research of serpentine terrain flora of the Ibar river middle-stream valley in northern Kosovo and Metohija, the existence of 882 taxa grouped into 83 families and 386 genera has been proven. The collected serpentine flora was analysed on taxonomical, ecological and phytogeographical basis. Out of the total number of identified taxa, 73 (8.27%) are endemic, sub-endemic, relict and endomeric. 31 taxa belong to a group of internationally significant vascular plants. Of these, 14 taxa have been protected by CITES Convention. The taxonomic structure of the serpentine flora of the Ibar river middle-stream valley is compared to the serpentine flora of Mt. Studena and Goleš Mt. (parts of Ibar serpentine massive).

**Keywords:** *floristic composition, Ibar serpentine massif, endemism, floristic similarity, Serbia*

### Introduction

Serpentine is technically a mineral, but the same word is often used for all ultramafic rocks, the soils that form from them, and the unique ecosystems that form on them (Harrison and Rajakaruna, 2011). Serpentine is a ferromagnesian silicate mineral which contains high concentrations of nickel (Ni) and often chromium (Cr) and cobalt (Co) in a form available for plants (Westerbergh and Saura, 1992). Serpentine soils are often deficient in plant essential nutrients such as nitrogen (N), phosphorus (P), potassium (K), and sulfur (S) (Rajakaruna and Boyd, 2014), while ratio of calcium (Ca): magnesium (Mg) is less than 1.0, and pH values range from basic to ultrabasic (Brooks, 1987; Selvi, 2007; Pavlova, 2007; Bani et al., 2013). Owing to this chemical composition, Novák (1926) described serpentine ranges as “dead rocks”. Serpentine soils are typically recognized on the landscape as patchily distributed rock outcrops with stunted vegetation (Anacker, 2014). Serpentine outcrops are often steep and comparatively rocky, making them particularly vulnerable to erosion, which results in shallow soils (Brady et al., 2005) and stony structure (Kurt et al., 2013).

The serpentinite is rather unfavorable to plant growth, and its physical conditions also are inhospitable for many plants (Bani et al., 2013). However, plants would not be

what they are, if they weren't able to conquer any tolerably suitable substratum by adapting to it (Vasić and Diklić, 2001). Plants adapted to grow under these constraints are called serpentinophytes (Selvi, 2007), distinguished by characteristic structural-morphological adaptations (Stevanović and Jakovljević, 2014); they possess capacity for removal and accumulation of metals (Branković et al., 2017). Many serpentine species are xeromorphic, and water deficiency has been suggested as another stress factor of many serpentine soils (Tumi, 2013). The serpentine flora contains both basophilous and acidophilous plants (Marin and Tatić, 2001). Vegetation growing on serpentinised rocks is often reduced in height, biomass, and ground cover (Gavrilović et al., 2017).

Ultramafic outcrops (also called "serpentine"), formed during tectonic movements, are widespread but sparse, covering roughly 3% of the Earth's surface (Guillot and Hattori, 2013). The largest serpentine areas in Europe are in the Balkans (Stevanović et al., 2003), with an estimated size of over 1,300 km<sup>2</sup> (Pustahija, 2011).

The serpentine areas on the Balkan Peninsula traverse discontinuously from the northwest to central Bosnia, over western and central Serbia, Metohija, Albania, Epirus and northern Thessaly all the way to the Island of Evia, Greece (Stevanović and Jakovljević, 2014). In Bulgaria serpentine areas are smaller and scattered (Pavlova, 2010), distributed in Southwestern & Central Bulgaria (Stevanović et al., 2003). It should be emphasized that the floristic opulence of these habitats increases with the serpentinities of western and central Serbia, over Albania to northern Pindo and the Evia Island, Greece (Stevanović and Jakovljević, 2014).

In the territory of Serbia the largest serpentine surfaces are located in its western and central regions, as well as in Kosovo and Metohija territory, covering about 250000 ha (Stevanović et al., 2003). These serpentine zones are distinctly delimited from the adjacent surrounding regions with a different geological substratum (e.g., limestone) (Dudić et al., 2007). Kosovo, as a part of the Balkan, hosts an ultramafic area of 487 km<sup>2</sup> within its territory (Salihaj et al., 2018). The largest complexes of serpentine in Kosovo region are found in the valley of the Ibar River and the same are continued in a discontinuous chain through Koznica Mt. and Goleš Mt. to the southwest of Kosovo (Krasniqi and Millaku, 2007). The Ibar serpentine massif stretches along the middle course of the Ibar River and represents a link in the extension chain of the serpentines in Bosnia-Zlatibor and the Ibar gorge-Albania direction (Prodanović et al., 2008). The identified age ranges from post-trias to lower jurassic.

The serpentine terrains of northeastern Kosovo, i.e. the middle stream of the Ibar river, have been rarely visited and floristically researched, which resulted in scarce scientific literature (Pavlović, 1967; Rexhepi, 1979, 1992; Krasniqi et al., 1981; Randelović et al., 1982; Krivošej et al., 1993, 1995-1998; Tatić and Krivošej, 1997). A more thorough exploration of this area was started in 2003 by Prodanović, whose work resulted in publishing new chorological data on the flora of Kosovo and Metohija, and entire Serbia (Prodanović, 2007; Prodanović et al., 2004, 2008, 2010, 2012, 2013, 2018; Krivošej et al., 2003, 2011, 2013). However, a comprehensive study involving all vascular serpentine flora in the Ibar valley has not been published so far.

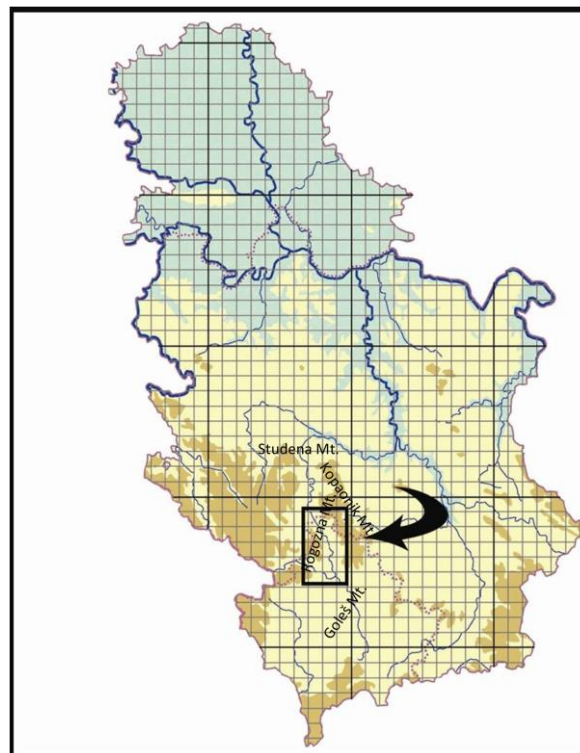
This paper presents a synthesis of all research studies performed in these area, both literature data and intensive field study data, starting from 2003 up to the present days. Its aim is to compile a complete checklist of floristic diversity of this area, analyse it on taxonomical, ecological and phytogeographical base and to compare the flora of two serpentinite regions in central Kosovo and central Serbia. It would be a significant scientific contribution to taxonomic and ecological studies of flora in whole Serbia.

Only a good knowledge of floristic diversity may initiate the procedures that may lead to preserving and protecting rare and endangered and internationally important species in these areas.

## Materials and Methods

### *Study area*

The intensive research studies of serpentine terrain in middle stream of the Ibar river started in March 2003 and continued till today. The researched area covers terrains in the Ibar river canyon north of Kosovska Mitrovica towards the administrative boundary of Kosovo and Metohija and central Serbia and a 50 km long village area of Donje Jarinje (*Fig. 1*). It should be emphasized that this highway more or less follows the Ibar river course. The actual length of the investigated area, due to naturally winding river course, is much bigger.



**Figure 1.** Geographical position of investigated area in Serbia (UTM 10x10 sq km)

The geographic relief of the Ibar river middle stream valley may be characterized as mountainous region – the Mountains of Rogozna, Kopaonik and Mokra raise up in the direction of the Ibar river canyon and they provide the main landscape characteristics to Kosovska Mitrovica basin. The altitude on the researched terrain varies between 500 and 900 meters above sea level. The climate of the Ibar river middle stream is defined as moderate –continental. The average air temperature is 10.2 °C. The researched area belongs to the zone with limited precipitation rate, around 614 mm.

The researched area in north Kosovo and Metohija covers the position between the Mesian and Illyrian provinces, since the Ibar river represents the farthest eastern

boundary of the Illyrian province. Due to this herbal-geographic position complex floristic and vegetation relations occur.

### ***Data collection***

The floral material was collected in the wider area on both sides of the river, through the gorge. The collected material was processed on usual ways for herbariums and stored in the Herbarium of the Institute for Natural Conservation of Serbia (a department in Belgrade) and some specimens are stored in the Herbarium of the Institute of Botany and Botanical Garden "Jevremovac", University of Belgrade (BEOU). The contemporary literature has been used for plant determination. The nomenclature used for all the registered species in the area under investigation was adjusted to comply with Euro+Med Plantbase (2006) and The Plant List (2013). The floristic catalogue is arranged in alphabetical order of families and genera.

The floristic elements for phytogeographic analyses have been processed and analyzed in line with herbal-geographic classification of Stevanović (1992a). The well-known Raunkiaer system (1934) amended by Stevanović (1992b) for Serbian conditions, has been used for the classification of life forms. Checklist of Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), as well as International Union for Conservation of Nature (IUCN) were used to determine the category of internationally significant and endangered species.

For the analysis of the similarity of flora in the researched area in the Ibar river valley and Studena planina/Mt. Studena and Goleš Mt., as parts of the Ibar serpentine massive, Sørensen's (1948) similarity index was used.

## **Results and Discussion**

### ***Taxonomic analysis of the flora***

Biologically, serpentine sites frequently host a depauperate flora compared to the surrounding regions (Obratov-Petković et al., 2006). Serpentine habitats are important centres for floristic differentiation and speciation (Stevanović et al., 2003) distinguished by high number of endemics. Considering the fact that the serpentine terrains with the insufficiently developed soil and unfavourable water and mineral regime, and high levels of magnesium, iron, nickel and chrome are "inhospitable" for floral development, the total number of 882 identified taxa in the investigated area still show floral treasure (Prodanović et al., 2008).

During a 16-year research of serpentine terrain flora of the Ibar river middle-stream valley, 882 taxa (species, subspecies) has been identified, which represent about 25% of total flora of Serbia. They have been grouped into 83 families and 386 genera (*Table 1*). Class *Polypodiopsida* is presented by 8 families and 13 taxa. Only two species of *Pinopsida* can be found. Floristically speaking, the richest class is *Magnoliopsida* with 867 taxa. The greatest number of taxa is noted in family *Compositae* (105), followed by *Leguminosae* (86), *Poaceae* (66), *Lamiaceae* (51), *Brassicaceae* (50), *Caryophyllaceae* (49) which coincides with the most numerous families in the flora of entire Serbia (Stevanović et al., 1995).

**Table 1.** Catalogue of the vascular plants observed in the serpentine terrains of Kosovo's section of the Ibar river valley

CLASS/ FAMILY/Species	Source/Literature	Common English names
<b>POLYPODIOPSIDA</b>		
ASPLENIACEAE		
<i>Asplenium adiantum-nigrum</i> subsp. <i>serpentini</i> (Tausch) Heuf	Prodanović, 2007	black spleenwort
<i>Asplenium ceterach</i> L. subsp. <i>ceterach</i>	Prodanović, 2007	rustyback
<i>Asplenium ruta-muraria</i> L.	Prodanović, 2007	wall-rue
<i>Asplenium trichomanes</i> L.	Prodanović, 2007	maidenhair spleenwort
CYSTOPTERIDACEAE		
<i>Cystopteris fragilis</i> (L.) Bernh.	Prodanović, 2007	brittle bladder-fern
DENNSTAEDTIACEAE		
<i>Pteridium aquilinum</i> (L.) Kuhn	Prodanović, 2007	bracken
DRYOPTERIDACEAE		
<i>Dryopteris filix-mas</i> (L.) Schott	Prodanović, 2007	
EQUISETACEAE		
<i>Equisetum arvense</i> L.	Prodanović, 2007; Krivošej et al., 2013	male-fern field horsetail
<i>Equisetum palustre</i> L.	Prodanović, 2007	marsh horsetail
OPHIOGLOSSACEAE		
<i>Ophioglossum vulgatum</i> L.	Krivošej et al., 2013	adder's tongue
POLYPODIACEAE		
<i>Polypodium vulgare</i> L.	Prodanović, 2007	polypody
PTERIDACEAE		
<i>Paraceterach marantae</i> (L.) R.M. Tryon	Rexhepi, 1979; Prodanović, 2007	
<i>Cheilanthes persica</i> (Bory) Mett. ex Kuhn	Krivošej et al., 2003; Prodanović, 2007	
<b>PINOPSIDA</b>		
CUPRESSACEAE		
<i>Juniperus communis</i> L.	Prodanović, 2007	common juniper
<i>Juniperus oxycedrus</i> L.	Pavlović, 1967; Rexhepi, 1979; Rexhepi 1992; Prodanović, 2007	western prickly juniper, cade juniper
<b>MAGNOLIOPSIDA</b>		
ADOXACEAE		
<i>Adoxa moschatellina</i> L.	Prodanović, 2007	moschatel
<i>Viburnum lantana</i> L.	Prodanović, 2007	wayfaring tree
AMARANTHACEAE		
<i>Amaranthus albus</i> L.	Prodanović, 2007	tumble pigweed
<i>Amaranthus blitoides</i> S. Watson	Prodanović, 2007	mat amaranth
<i>Amaranthus retroflexus</i> L.	Prodanović, 2007	redroot pigweed
<i>Chenopodium bonus-henricus</i> L.	Prodanović, 2007	poor-man's asparagus
<i>Chenopodium hybridum</i> L.	Prodanović, 2007	goosefoot
<i>Chenopodium opulifolium</i> Schrad. ex W.D.J. Koch & Ziz	Prodanović, 2007	grey goosefoot
<i>Chenopodium polyspermum</i> L.	Prodanović, 2007	manysed goosefoot
<i>Dysphania botrys</i> (L.) Mosyakin & Clemants	Prodanović, 2007	jerusalem oak goosefoot
<i>Polycnemum majus</i> A. Braun	Prodanović, 2007	giant needleleaf
AMARYLLIDACEAE		
<i>Allium carinatum</i> subsp. <i>pulchellum</i> (G.Don.) Bonnier & Layens	Prodanović, 2007	witch's garlic
<i>Allium flavum</i> L.	Pavlović, 1967; Prodanović et al., 2004; Prodanović, 2007	small yellow onion
<i>Allium moschatum</i> L.	Prodanović, 2007	wild onion
<i>Allium pendulinum</i> Ten.	Prodanović, 2007	italian garlic

CLASS/ FAMILY/Species	Source/Literature	Common English names
<i>Allium scorodoprasum</i> L.	Pavlović, 1967; Prodanović, 2007	rocambole
<i>Allium sphaerocephalum</i> L.	Prodanović, 2007	round-headed leek
<i>Galanthus nivalis</i> L.	Prodanović, 2007	snowdrop
ANACARDIACEAE		
<i>Cotinus coggygia</i> Scop.	Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007	smoke tree
APIACEAE		
<i>Aegopodium podagraria</i> L.	Prodanović, 2007; Krivošej et al., 2013	goutweed
<i>Anthriscus caucalis</i> M.Bieb.	Prodanović, 2007	bur-chervil
<i>Anthriscus cerefolium</i> (L.) Hoffm.	Prodanović, 2007	garden chervil
<i>Anthriscus sylvestris</i> (L.) Hoffm.	Prodanović, 2007	cow parsley, wild chervil
<i>Bifora radians</i> M. Bieb.	Prodanović, 2007	wild bishop
<i>Bupleurum praealtum</i> L.	Prodanović, 2007	hare's-ears
<i>Bupleurum rotundifolium</i> L.	Prodanović, 2007	round-leaved thoroughwax
<i>Bupleurum tenuissimum</i> L.	Prodanović et al., 2013	slender hare's-ear
<i>Chaerophyllum aureum</i> L.	Prodanović, 2007	golden chervil
<i>Chaerophyllum bulbosum</i> L.	Prodanović, 2007	turnip rooted chervil
<i>Chaerophyllum temulum</i> L.	Prodanović, 2007	rough chervil,
<i>Conium maculatum</i> L.	Prodanović, 2007	poison hemlock
<i>Daucus carota</i> L.	Prodanović, 2007	wild carrot, bird's nest
<i>Eryngium campestre</i> L.	Rexhepi, 1979; Prodanović, 2007	field eryngo
<i>Eryngium palmatum</i> Pančić & Vis.	Prodanović, 2007	blue eryngo, flat sea holly
<i>Eryngium serbicum</i> Pančić	Prodanović, 2007; Prodanović et al., 2008	serbian sea holly
<i>Falcaria vulgaris</i> Bernh.	Prodanović, 2007	sickleweed
<i>Foeniculum vulgare</i> Mill.	Prodanović, 2007	sweet fennel
<i>Heracleum sphondylium</i> L.	Prodanović, 2007	common hogweed
<i>Laser trilobum</i> (L.) Borkh.	Prodanović, 2007	gladich
<i>Laserpitium siler</i> L.	Prodanović, 2007	laserwort
<i>Laserpitium siler</i> L. subsp. <i>siler</i>	Prodanović, 2007	laserwort
<i>Myrrhoides nodosa</i> (L.) Cannon	Prodanović, 2007	sweet cicely
<i>Oenanthe silaifolia</i> M.Bieb.	Prodanović, 2007; Krivošej et al., 2013	narrow-leaved water-dropwort
<i>Orlaya grandiflora</i> (L.) Hoffm.	Prodanović, 2007	white laceflower
<i>Pastinaca sativa</i> L.	Prodanović, 2007	parsnip
<i>Pastinaca sativa</i> L. subsp. <i>urens</i> (Godr.)	Prodanović, 2007	wild parsnip
<i>Peucedanum alsaticum</i> L.	Prodanović, 2007	hog's fennel
<i>Peucedanum austriacum</i> (Jacq.) W.D.J. Koch	Prodanović, 2007	giant hog's fennel
<i>Peucedanum cervaria</i> (L.) Cusson ex Lapeyr.	Prodanović, 2007	hart's word
<i>Peucedanum officinale</i> L.	Prodanović, 2007	marsh hog's fennel
<i>Peucedanum oreoselinum</i> (L.) Moench	Prodanović, 2007	mountain hog's Fennel
<i>Pimpinella saxifraga</i> L.	Prodanović, 2007	burnet-saxifrage,
<i>Physospermum cornubiense</i> (L.) DC.	Prodanović, 2007	bladderseed
<i>Scandix pecten-veneris</i> L.	Prodanović, 2007	Venus' comb
<i>Seseli pallasii</i> Besser	Prodanović, 2007	
<i>Seseli peucedanoides</i> (M.Bieb.) Koso.-Pol.	Prodanović, 2007	
<i>Seseli rigidum</i> Waldst. & Kit.	Prodanović, 2007	
<i>Seseli rigidum</i> Waldst. & Kit. subsp. <i>rigidum</i>	Prodanović, 2007	
<i>Sium latifolium</i> L.	Prodanović, 2007	water hemlock
<i>Smyrniium perfoliatum</i> L.	Prodanović, 2007	perfoliate alexanders
<i>Torilis japonica</i> (Houtt.) DC.	Prodanović, 2007	erect hedgeparsley
<i>Trinia glauca</i> (L.) Dumort.	Prodanović, 2007	honewort

CLASS/ FAMILY/Species	Source/Literature	Common English names
subsp. <i>glauca</i>		
APOCYNACEAE		
<i>Vinca major</i> L.	Prodanović, 2007	greater periwinkle
<i>Vincetoxicum hirundinaria</i> Medik.	Prodanović, 2007	white swallow-wort
ARACEAE		
<i>Arum maculatum</i> L.	Prodanović, 2007	cuckoo pint
ARALIACEAE		
<i>Hedera helix</i> L.	Prodanović, 2007	english ivy
ARISTOLOCHACEAE		
<i>Aristolochia clematitis</i> L.	Prodanović, 2007	birthwort
<i>Asarum europaeum</i> L.	Prodanović, 2007	wild ginger
ASPARAGACEAE		
<i>Anthericum liliago</i> L.	Pavlović, 1967; Prodanović, 2007	lily
<i>Asparagus officinalis</i> L.	Prodanović, 2007	sparrow grass
<i>Asparagus tenuifolius</i> Lam.	Rexhepi, 1979	
<i>Convallaria majalis</i> L.	Prodanović, 2007	lily of the valleys
<i>Leopoldia comosa</i> (L.) Parl.	Prodanović, 2007	tassel hyacinth
<i>Muscari racemosum</i> Mill.	Prodanović, 2007	starch grape hyacinth
<i>Ornithogalum gussonei</i> Ten.	Prodanović, 2007	star-of-Bethlehem
<i>Ornithogalum pyramidale</i> L.	Prodanović, 2007	pyramidal star-of-Bethlehem
<i>Ornithogalum refractum</i> Kit. ex Schldtl.	Prodanović, 2007	star-of-Bethlehem,
<i>Ornithogalum umbellatum</i> L.	Prodanović, 2007	garden star-of-Bethlehem
<i>Polygonatum hirtum</i> (Bosc ex Poir) Pursh	Prodanović, 2007	king Solomon's-seal
<i>Polygonatum odoratum</i> (Mill.) Druce	Prodanović, 2007	fragrant Solomon's seal
<i>Scilla bifolia</i> L.	Prodanović, 2007	twin leaf squill
BERBERIDACEAE		
<i>Berberis vulgaris</i> L. f. <i>vulgaris</i>	Prodanović, 2007	common barberry
<i>Epimedium alpinum</i> L.	Prodanović et al., 2013	alpine barrenwort
BETULACEAE		
<i>Alnus glutinosa</i> (L.) Gaertn.	Prodanović, 2007; Krivošej et al., 2013	european black alder
<i>Carpinus betulus</i> L.	Prodanović, 2007	common hornbeam
<i>Carpinus orientalis</i> Mill.	Pavlović, 1967; Prodanović et al., 2004; Prodanović, 2007	oriental hornbeam
<i>Corylus avellana</i> L.	Prodanović, 2007; Krivošej et al., 2013	hazel
<i>Ostrya carpinifolia</i> Scop.	Prodanović et al., 2004; Prodanović, 2007	hop-hornbeam
BORAGINACEAE		
<i>Anchusa azurea</i> Mill.	Prodanović, 2007	bugloss
<i>Anchusa officinalis</i> L.	Prodanović, 2007	common bugloss, alkanet
<i>Anchusa officinalis</i> L. subsp. <i>officinalis</i>	Prodanović, 2007	common bugloss, alkanet
<i>Asperugo procumbens</i> L.	Prodanović, 2007	german-madwort
<i>Buglossoides arvensis</i> (L.) I.M. Johnst.	Prodanović, 2007	corn gromwell
<i>Buglossoides purpureoerulea</i> (L.) I.M. Johnst.	Prodanović, 2007	purple gromwell
<i>Cerintho minor</i> L.	Prodanović, 2007	honeyworts
<i>Cynoglossum creticum</i> Mill.	Prodanović, 2007	blue houndstonge
<i>Cynoglossum officinale</i> L.	Prodanović, 2007	houndstonge
<i>Echium rubrum</i> Forssk.	Rexhepi, 1979; Krivošej et al., 1993; Prodanović, 2007	viper's bugloss rubrum
<i>Echium italicum</i> L.	Prodanović, 2007	italian bugloss
<i>Echium vulgare</i> L.	Prodanović, 2007	common vipersbugloss
<i>Halacsya sendtneri</i> (Boiss.) Dörf.	Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović, 2007; Prodanović et al., 2008	halacsya
<i>Heliotropium europaeum</i> L.	Prodanović, 2007	european turn-sole

CLASS/ FAMILY/Species	Source/Literature	Common English names
<i>Lappula squarrosa</i> (Retz.) Dumort.	Prodanović, 2007	bur forget-me-not
<i>Myosotis arvensis</i> (L.) Hill.	Prodanović, 2007	field forget-me-not
<i>Myosotis discolor</i> Pers.	Prodanović, 2007	changing forget-me-not
<i>Myosotis sparsiflora</i> J.K.Mikan ex Pohl.	Prodanović, 2007	forget-me-not
<i>Nonnea pulla</i> DC.	Prodanović, 2007	monkswort
<i>Onosma montana</i> Sm.	Prodanović, 2007	onosma
<i>Pulmonaria mollissima</i> Wulfen ex Hornem.	Prodanović, 2007	lungwort
<i>Pulmonaria officinalis</i> L.	Prodanović, 2007	common lungwort
<i>Symphytum tuberosum</i> L.	Prodanović, 2007	tuberous comfrey
BRASSICACEAE		
<i>Aethionema saxatile</i> subsp. <i>graecum</i> (Boiss. & Spruner) Hayek	Rexhepi, 1979; Prodanović, 2007	burnt candytuft
<i>Aethionema saxatile</i> (L.) R.Br. subsp. <i>saxatile</i>	Prodanović, 2007	burnt candytuft
<i>Alliaria petiolata</i> (M.Bieb.) Cavara & Grande	Prodanović, 2007	garlic mustard
<i>Alyssum alyssoides</i> (L.) L.	Prodanović, 2007	yellow alyssum
<i>Alyssum markgrafii</i> O.E.Schulz.	Pavlović, 1967; Rexhepi, 1979; Krivošej et al., 1993; Prodanović, 2007; Prodanović et al., 2008;	
<i>Alyssum montanum</i> L. subsp. <i>serbicum</i> Novák f. <i>macrophyllum</i> Novák	Pavlović, 1967; Prodanović, 2007; Prodanović et al., 2008	mountain alyssum
<i>Alyssum montanum</i> L. subsp. <i>serbicum</i> Novák f. <i>microphyllum</i> Novák	Pavlović, 1967; Prodanović, 2007	mountain alyssum
<i>Alyssum montanum</i> L. subsp. <i>serbicum</i> Novák f. <i>serbicum</i>	Pavlović, 1967; Prodanović, 2007	mountain alyssum
<i>Alyssum wierzbickii</i> Heuff.?	Prodanović, 2007	alpine alyssum
<i>Arabidopsis arenosa</i> (L.) Lawalrée	Prodanović, (unpublished, field observation)	rockcres
<i>Arabidopsis thaliana</i> (L.) Heynh.	Prodanović, 2007	thale cress, mouse-ear cress
<i>Arabis hirsuta</i> (L.) Scop.	Prodanović, 2007	hairy rock-cress
<i>Arabis turrita</i> L.	Prodanović, 2007	rockcress,
<i>Berteroa incana</i> (L.) DC.	Prodanović, 2007	hoary alyssum
<i>Calepina irregularis</i> (Asso) Thell.	Prodanović, 2007	white ballmustard
<i>Camelina sativa</i> (L.) Crantz.	Prodanović, 2007	camelina, false flax
<i>Capsella bursa-pastoris</i> (L.) Medik	Prodanović, 2007	shepherd's purse
<i>Cardamine bulbifera</i> (L.) Crantz.	Prodanović, 2007	coralroot
<i>Cardamine graeca</i> L.	Krivošej & Prodanović, 2011	southern bitter-cress
<i>Cardamine impatiens</i> L.	Prodanović, 2007	narrowleaf bittercress
<i>Cardamine pratensis</i> L.	Prodanović, 2007	cuckoo flower, lady's smock
<i>Descurainia sophia</i> (L.) Webb. ex Prantl	Prodanović, 2007	flixweed
<i>Diplotaxis muralis</i> (L.) DC.	Prodanović, 2007	wall rocket
<i>Draba lasiocarpa</i> Rochel	Prodanović, 2007	whitlow-grasses
<i>Draba muralis</i> L.	Prodanović, 2007	whitlowgrass
<i>Erysimum cuspidatum</i> (M. Bieb.) DC.	Prodanović, 2007	wallflower
<i>Erysimum diffusum</i> Ehrh.	Pavlović, 1967; Prodanović, 2007	diffuse wallflower
<i>Erysimum odoratum</i> Ehrh.	Prodanović, (unpublished, field observation)	smelly wallflower
<i>Erysimum kuemmerlei</i> Jáv.	Prodanović, 2007	wallflower
<i>Erysimum sylvestre</i> (Crantz) Scop.	Prodanović, 2007	wallflower
<i>Fibigia clypeata</i> (L.) Medik	Prodanović et al., 2004; Prodanović, 2007	false-gypsophila ankyropetalum
<i>Hesperis matronalis</i> L.	Prodanović, 2007	mother-of-the-evening
<i>Isatis tinctoria</i> L.	Prodanović, 2007	dyer's woad, glastum



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<i>Lepidium campestre</i> (L.) R.Br.	Prodanović, 2007	field pepperwort , field cress
<i>Lepidium draba</i> L.	Prodanović, 2007	whitetop, hoary cress
<i>Lepidium ruderales</i> L.	Prodanović, 2007	roadside pepperweed
<i>Myagrum perfoliatum</i> L.	Prodanović, 2007	bird's-eye cress, muskweed
<i>Odontarrhena bertolonii</i> subsp. <i>scutarina</i> (Nyár) Španiel & al.	Prodanović, 2007	
<i>Rorippa amphibia</i> (L.) Besser	Prodanović, 2007	great yellowcress
<i>Rorippa austriaca</i> (Crantz) Spach.	Prodanović, 2007	austrian yellow-cress
<i>Rorippa lippizensis</i> (Wulfen) Rchb.	Prodanović, 2007	yellowcress
<i>Rorippa sylvestris</i> (L.) Besser	Prodanović, 2007	creeping yellowcress, yellow fieldcress
<i>Sisymbrium altissimum</i> L.	Prodanović, 2007	tall hedge-mustard, tumbleweed
<i>Sisymbrium loeselii</i> L.	Prodanović, 2007	small tumbleweed mustard
<i>Sisymbrium officinale</i> (L.) Scop.	Prodanović, 2007	hedge mustard
<i>Sisymbrium orientale</i> L.	Prodanović, 2007	indian hedgemustard
<i>Sisymbrium strictissimum</i> L.	Prodanović, 2007	perennial rocket
<i>Thlaspi arvense</i> L.	Prodanović, 2007	stinkweed, bastard cress, fanweed
<i>Thlaspi kovatsii</i> Heuff.	Prodanović, 2007	pennycress
<i>Turritis glabra</i> L.	Prodanović, 2007	tower rockcress, tower mustard
<b>CAMPANULACEAE</b>		
<i>Asyneuma canescens</i> (Waldst. & Kit.) Griseb. & Schenk	Prodanović, 2007	harebells
<i>Asyneuma limonifolium</i> (L.) Janch.	Pavlović, 1967; Randelović et al., 1982; Prodanović, 2007	harebells
<i>Campanula cervicaria</i> L.	Prodanović, 2007	bristly bellflower
<i>Campanula lingulata</i> Waldst. & Kit.	Rexhepi, 1979; Prodanović et al., 2004; Prodanović, 2007	bellflower
<i>Campanula persicifolia</i> L.	Prodanović, 2007	peach-leaved bellflower
<i>Campanula rapunculoides</i> L.	Prodanović, 2007	creeping bellflower
<i>Campanula rapunculus</i> L.	Prodanović, 2007	rampion bellflower
<i>Campanula rapunculus</i> L. f. <i>montana</i> Pančić	Prodanović, 2007	rampion bellflower, rampion
<i>Campanula trachelium</i> L.	Prodanović, 2007	nettle-leaved bellflower
<i>Legousia speculum-veneris</i> (L.) Durande ex Vill.	Prodanović, 2007	looking glass, large Venus's- looking-glass
<b>CANNABACEAE</b>		
<i>Humulus lupulus</i> L.	Prodanović, 2007	common hop
<b>CAPRIFOLIACEAE</b>		
<i>Cephalaria leucantha</i> (L.) Scharad. ex Roem. & Schult.	Rexhepi, 1979; Prodanović, 2007	giant scabious
<i>Knautia arvensis</i> (L.) Coult.	Prodanović, 2007	field scabious
<i>Knautia integrifolia</i> (Honck. ex L.) Bertol	Prodanović, 2007	whole-leaved scabious
<i>Lonicera caprifolium</i> L.	Prodanović, 2007	italian woodbine, perfoliate honeysuckle
<i>Scabiosa argentea</i> L.	Prodanović, (unpublished, field observation)	silver scabious
<i>Scabiosa columbaria</i> L.	Rexhepi, 1979; Prodanović, 2007	pigeon scabious, pincushion flower
<i>Scabiosa fumaroides</i> Vis. & Pančić	Prodanović, 2007; Prodanović et al., 2008	
<i>Valeriana officinalis</i> L.	Prodanović, 2007	garden heliotrope, valerian
<i>Valeriana tuberosa</i> L.	Krivošej et al., 1995-1998; Prodanović, 2007	tuberous valerian
<i>Valerianella coronata</i> (L.) DC.	Prodanović, 2007	corn lettuce
<i>Valerianella dentata</i> (L.) Pollich	Randelović et al., 1982; Prodanović, 2007	corn salad
<i>Valerianella locusta</i> (L.) Laterr.	Prodanović, 2007	corn salad

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<i>Valerianella rimosa</i> Bastard	Prodanović, 2007	beaked corn salad
CARYOPHYLLACEAE		
<i>Agrostemma githago</i> L.	Prodanović, 2007	corncockle
<i>Arenaria serpyllifolia</i> subsp. <i>leptoclados</i> (Rchb.) Nyman	Prodanović, 2007	thyme-leaf sandwort
<i>Arenaria serpyllifolia</i> L.	Prodanović, 2007	thyme-leaf sandwort
<i>Cerastium brachypetalum</i> Desp. ex Pers	Prodanović, 2007	gray chickweed
<i>Cerastium decalvans</i> Schloss. & Vuk.	Prodanović, 2007	balkan rozhets
<i>Cerastium fontanum</i> Baumg.	Prodanović, 2007	mouse-ear chickweed
<i>Cerastium pumilum</i> Curtis	Prodanović, 2007	dwarf mouse-ear, european chickweed
<i>Cerastium pumilum</i> var. <i>glutinosum</i> (Čelak) E.Rico	Prodanović, 2007	dwarf mouse-ear
<i>Cerastium semidecandrum</i> L.	Prodanović, 2007	festamen chickweed
<i>Dianthus carthusianorum</i> L.	Prodanović, 2007	carthusian pink
<i>Dianthus giganteus</i> d'Urv	Prodanović, 2007	pink
<i>Dianthus pinifolius</i> Sm.	Prodanović, 2007	immediate children
<i>Dianthus pinifolius</i> subsp. <i>serbicus</i> Wettst.	Pavlović, 1967; Prodanović, 2007	Immediate children
<i>Dianthus sylvestris</i> Wulfen subsp. <i>sylvestris</i>	Rexhepi, 1979; Prodanović, 2007	wood pink
<i>Herniaria glabra</i> L.	Prodanović, 2007	smooth rupturewort
<i>Herniaria hirsuta</i> L.	Prodanović, 2007	hairy rupturewort.
<i>Herniaria incana</i> Lam.	Prodanović, 2007	grey rupturewort
<i>Holosteum umbellatum</i> L.	Prodanović, 2007	jagged chickweed
<i>Minuartia glomerata</i> (M.Bieb.) Degen.	Prodanović et al., 2004; Prodanović, 2007	stitchwort
<i>Minuartia hamata</i> (Hausskn.) Mattf.	Prodanović, 2007	sandwort
<i>Minuartia hirsuta</i> (M.Bieb) Hand.-Mazz.	Rexhepi, 1979; Prodanović, 2007	hairy sandwort
<i>Minuartia setacea</i> (Thuill.) Hayek	Prodanović, 2007	sandwort
<i>Minuartia verna</i> (L.) Hiern	Prodanović, 2007	leadwort
<i>Moehringia trinervia</i> (L.) Clairv.	Prodanović, 2007	apetalous sandwort , three-nerved sandwort
<i>Petrorhagia illyrica</i> subsp. <i>haynaldiana</i> (Janka) P.W. Ball & Heywood	Pavlović, 1967; Prodanović, 2007	
<i>Petrorhagia illyrica</i> (Ard.) P.W.Ball & Heyood.	Pavlović, 1967; Prodanović, 2007	
<i>Petrorhagia prolifera</i> (L.) P.W. Ball. & Heywood	Rexhepi, 1979; Prodanović, 2007	proliferous pink
<i>Petrorhagia saxifraga</i> (L.) Link.	Pavlović, 1967; Rexhepi, 1979; Prodanović et al., 2004; Prodanović, 2007	tunic flower, coat flower
<i>Saponaria glutinosa</i> M. Bieb.	Prodanović, 2007	soapwort
<i>Saponaria officinalis</i> L.	Prodanović, 2007	common soapwort, bouncing-bet
<i>Scleranthus annuus</i> subsp. <i>polycarpus</i> (L.) Bonnier & Layens	Prodanović, 2007	annual knawel
<i>Scleranthus perennis</i> subsp. <i>dichotomus</i> (Schur) Nyman	Prodanović, 2007	perennial knawel
<i>Silene latifolia</i> subsp. <i>alba</i> (Mill.) Greuter & Burdet	Prodanović, 2007	bladder campion
<i>Silene armeria</i> L.	Prodanović, 2007	sweet William catchfly
<i>Silene baccifera</i> (L.) Roth.	Prodanović, 2007	campion
<i>Silene bupleuroides</i> L.	Prodanović, 2007	campion
<i>Silene conica</i> L.	Prodanović, 2007	striped corn catchfly
<i>Silene coronaria</i> (Desr.) Clairv. ex Rchb.	Prodanović, 2007	rose campion
<i>Silene flos-cuculi</i> (L.) Greuter & Burdet	Prodanović, 2007	ragged-robin
<i>Silene italica</i> (L.) Pers.	Prodanović, 2007	italian catchfly

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<i>Silene nutans</i> L.	Prodanović, 2007	nottingham catchfly
<i>Silene otites</i> (L.) Wibel.	Prodanović, 2007, Randelović et al., 1982	spanish catchfly
<i>Silene viscaria</i> (L.) Jess.	Prodanović, 2007	sticky catchfly
<i>Silene vulgaris</i> (Moench) Garcke	Prodanović, 2007	bladder campion
<i>Stellaria aquaticua</i> (L.) Scop.	Prodanović, 2007	giant chickweed
<i>Stellaria graminea</i> L.	Prodanović, 2007; Krivošej et al., 2013	grassleaved stichwort
<i>Stellaria holostea</i> L.	Prodanović, 2007	greater stitchwort
<i>Stellaria media</i> (L.) Vill.	Prodanović, 2007	common chickweed
<i>Stellaria nemorum</i> L.	Prodanović, 2007	nodding chickweed
CELASTRACEAE		
<i>Euonymus europaeus</i> L. var. <i>europaeus</i> f. <i>angustifolia</i> (Schultz) Rony	Prodanović, 2007	european spindle
<i>Euonymus europaeus</i> L. var. <i>grandifolia</i> Form. f. <i>scaberula</i> (Beck) Jovanović	Prodanović, 2007	european spindle
<i>Euonymus latifolius</i> (L.) Mill.	Prodanović, 2007	broadleaf spindle
<i>Euonymus verrucosus</i> Scop.	Prodanović, 2007	spindle tree
CERATOPHYLLACEAE		
<i>Ceratophyllum submersum</i> L.	Prodanović, 2007	soft hornwort
CISTACEAE		
<i>Fumana bonapartei</i> Maire et Petitm.	Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović, 2007; Prodanović et al., 2008	needle sunrose
<i>Fumana procumbens</i> (Dunal) Gren. & Godr.	Prodanović et al., 2004; Prodanović, 2007	sprawling needle sunrose
<i>Helianthemum nummularium</i> (L.) Mill. subsp. <i>nummularium</i>	Prodanović et al., 2004; Prodanović, 2007	common rock-rose
<i>Helianthemum salicifolium</i> (L.) Mill.	Prodanović, 2007	rock rose, sunrose
CLUSIACEAE		
<i>Hypericum barbatum</i> Jacq.	Prodanović, 2007	bearded St. John's wort
<i>Hypericum hirsutum</i> L.	Prodanović, 2007	hairy St John's-wort
<i>Hypericum perforatum</i> L.	Rexhepi, 1979; Prodanović, 2007	perforate St. John's wort
<i>Hypericum rumeliacum</i> Boiss.	Prodanović, 2007	St. John's wort
COLCHICACEAE		
<i>Colchicum autumnale</i> L.	Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013	autumn crocus, meadow saffron
COMPOSITAE		
<i>Achillea coarctata</i> Poir.	Prodanović, 2007	yarrow
<i>Achillea collina</i> (Becker ex Rchb.f.) Heimerl.	Prodanović, 2007	yarrow
<i>Achillea crimifolia</i> Waldst. & Kit.	Prodanović, 2007	yarrow
<i>Achillea millefolium</i> L.	Prodanović, 2007	milfoil, common yarrow
<i>Achillea pseudopectinata</i> Janka	Prodanović, 2007	yarrow
<i>Ambrosia artemisiifolia</i> L.	Prodanović, 2007	common ragweed, annual ragweed
<i>Anthemis arvensis</i> L.	Prodanović, 2007	corn chamomile, mayweed
<i>Arctium lappa</i> L.	Prodanović, 2007	greater burdock
<i>Artemisia absinthium</i> L.	Prodanović, 2007	absinth wormwood
<i>Artemisia alba</i> Turra	Prodanović, 2007	white wormwood
<i>Artemisia campestris</i> L.	Prodanović, 2007	common sagewort
<i>Artemisia scoparia</i> Waldst. & Kitam.	Prodanović, 2007	virgate wormwood
<i>Artemisia vulgaris</i> L.	Prodanović, 2007	common mugwort
<i>Bellis perennis</i> L.	Prodanović, 2007; Krivošej et al., 2013	common daisy
<i>Carduus candicans</i> Waldst. & Kit.	Prodanović, 2007	thistle
<i>Carduus nutans</i> L.	Prodanović, 2007	musk thistle

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<i>Carlina acaulis</i> L.	Prodanović, 2007	stemless carline thistle, dwarf carline thistle
<i>Carthamus lanatus</i> L.	Prodanović, 2007	woolly carthamus, woolly safflower
<i>Centaurea jacea</i> L.	Prodanović, 2007	brown knapweed
<i>Centaurea orientalis</i> L.	Prodanović, 2007	knapweed
<i>Centaurea phrygia</i> L.	Rexhepi, 1979; Prodanović, 2007	wig knapweed
<i>Centaurea scabiosa</i> L. subsp. <i>fritschii</i> (Hayek) Hayek	Prodanović, 2007	greater knapweed
<i>Centaurea scabiosa</i> L. subsp. <i>spinulosa</i> (Spreng.) Arcang	Prodanović, 2007	scabious knapweed, greater knapweed
<i>Centaurea solstitialis</i> L.	Prodanović, 2007	yellow star-thistle
<i>Centaurea stoebe</i> L. subsp. <i>austriialis</i> (Pančić ex A.Kern) Greuter	Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007	spotted knapweed
<i>Centaurea stoebe</i> L.	Prodanović, 2007	panicled knapweed, spotted knapweed
<i>Chondrilla juncea</i> L.	Prodanović et al., 2004; Prodanović, 2007	rush skeletonweed, nakedweed
<i>Cichorium intybus</i> L.	Prodanović, 2007	chicory
<i>Cirsium arvense</i> (L.) Scop.	Prodanović, 2007	creeping thistle
<i>Cirsium creticum</i> (Lam.) Urv.	Prodanović, 2007	bull thistle
<i>Cirsium lanceolatum</i> (L.) Hill.	Prodanović, 2007	bull thistle, common thistle
<i>Cota austriaca</i> (Jacq.) Sch.Bip.	Prodanović, 2007	austrian chamomile
<i>Cota tinctoria</i> (L.) J.Gay.	Prodanović, 2007	golden marguerite, yellow chamomile
<i>Crepis biennis</i> Lapeyr.	Prodanović, 2007	rough Hawksbeard
<i>Crepis foetida</i> subsp. <i>rhoeadifolia</i> (M.Bieb.) Čelak	Prodanović, 2007	stinking hawksbeard
<i>Crepis sancta</i> (L.) Bornm.	Pavlović, 1967; Prodanović, 2007	holy hawksbeard
<i>Crepis setosa</i> Haller f.	Prodanović, 2007	bristly hawksbeard
<i>Crupina vulgaris</i> Pers ex Cass.	Ranđelović et al., 1982; Prodanović, 2007	bearded creeper
<i>Cyanus segetum</i> Hill	Prodanović, 2007	cornflower, bachelor's button
<i>Cyanus triumfettii</i> (All.) Dostál ex Á. Löve & D.Löve	Prodanović, 2007	mountain cornflower
<i>Cyanus triumfettii</i> (All.) Dostál ex Á. Löve & D.Löve subsp. <i>axillaries</i> (Čelak.) Štěpánek	Prodanović, 2007	mountain cornflower
<i>Doronicum columnae</i> Ten.	Prodanović, (unpublished, field observation)	leopard's bane
<i>Doronicum hungaricum</i> (Sadler) Rchb.f	Prodanović, 2007; Krivošej & Prodanović, 2011; Prodanović et al., 2012	
<i>Doronicum orientale</i> Hoffm.	Prodanović, (unpublished, field observation)	leopard's bane
<i>Echinops ritro</i> subsp. <i>ruthenicus</i> (M.Bieb.) Nyman	Prodanović, 2007	southern globethistle
<i>Echinops sphaerocephalus</i> L.	Prodanović, 2007	glandular globe-thistle
<i>Erigeron acer</i> L.	Prodanović, 2007	bitter fleabane
<i>Erigeron canadensis</i> L.	Prodanović, 2007	horseweed, canadian horseweed
<i>Eupatorium cannabinum</i> L.	Prodanović, 2007	hemp-agrimony, holy rope
<i>Filago arvensis</i> L.	Prodanović, 2007	field cottonrose
<i>Gallatella albanica</i> Degen	Rexhepi 1992; Krivošej et al., 1993; Prodanović, 2007; Prodanović et al., 2008	
<i>Gallatella linosyris</i> (L.) Rchb.	Prodanović, 2007	goldilocks aster
<i>Hieracium bauhini</i> Besser subsp. <i>besserianum</i> Spreng	Prodanović, 2007	hawkweed
<i>Hieracium bauhini</i> Besser subsp. <i>filiferum</i> (Tausch) Zahn	Prodanović, 2007	hawkweed

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<i>Hieracium bauhini</i> Besser subsp. <i>heathinum</i> (N.P.) Zahn	Prodanović, 2007	hawkweed
<i>Hieracium bauhini</i> Besser subsp. <i>pseudo-kernerii</i> Zahn	Prodanović, 2007	hawkweed
<i>Hieracium bauhini</i> Besser subsp. <i>pseudosparsum</i> Zahn	Prodanović, 2007	hawkweed
<i>Hieracium cymosum</i> Vill.	Prodanović, 2007	hawkweed
<i>Hieracium hoppeanum</i> Wallr. ex Nyman	Prodanović, 2007	Hoppe's hawkweed
<i>Hieracium lachenalii</i> Suter subsp. <i>festinum</i> (Boreau) Zahn.	Prodanović, 2007	common hawkweed, yellow hawkweed
<i>Hieracium murorum</i> L. subsp. <i>gentile</i> (Boreau) Sudre	Prodanović, 2007	wall hawkweed
<i>Hieracium schmidtii</i> subsp. <i>pallidum</i> (Biv.) O.Bolòs & Vigo	Prodanović, 2007	Schmidt's hawkweed
<i>Hieracium sabaudum</i> L. subsp. <i>vagum</i> Zahn	Prodanović, 2007	new england hawkweed, european hawkweed
<i>Hypochaeris maculata</i> L.	Prodanović, 2007	spotted cat's ear
<i>Hypochaeris radicata</i> L.	Prodanović, 2007	catsear, hairy cat's ear, false dandelion
<i>Inula britannica</i> L.	Prodanović, 2007	british elecampane, british yellowhead
<i>Inula conyza</i> (Griess.) DC.	Prodanović, 2007	ploughman's spikenard
<i>Inula ensifolia</i> L.	Rexhepi, 1979; Prodanović, 2007	swordleaf inula
<i>Inula hirta</i> L.	Prodanović, 2007	hairiness inula
<i>Inula oculus-christi</i> L.	Prodanović, 2007	Christ's eye hoary fleabane
<i>Inula salicina</i> L.	Prodanović, 2007	irish fleabane
<i>Jurinea mollis</i> (L.) Rchb.	Rexhepi, 1979; Prodanović, 2007	
<i>Klasea radiata</i> (Waldst. & Kit.) A.Löve & D. Löve	Prodanović, 2007	radiating outwards
<i>Lactuca muralis</i> (L.) Gaertn.	Prodanović, 2007	wall lettuce
<i>Lactuca perennis</i> L.	Prodanović, 2007	mountain lettuce, blue lettuce
<i>Lactuca serriola</i> L.	Prodanović, 2007	prickly lettuce
<i>Lactuca viminea</i> (L.) J. Presl. & C. Presl.	Prodanović, 2007	pliant lettuce
<i>Leontodon hispidus</i> L.	Prodanović, 2007	bristly hawkbit
<i>Leucanthemum vulgare</i> (Vaill) Lam.	Prodanović, 2007	ox-eye daisy
<i>Matricaria chamomilla</i> L.	Prodanović, 2007	chamomile
<i>Onopordum acanthium</i> L.	Prodanović, 2007	cotton thistle
<i>Petasites hybridus</i> (L.) G.Gaertn. & al.	Prodanović, 2007	butterbur
<i>Pilosella bauhini</i> (Schult.) Arv.-Touv.	Prodanović, 2007	
<i>Pilosella piloselloides</i> (Vill.) Soják	Prodanović, 2007	hawkweed
<i>Podospermum laciniatum</i> (L.) DC.	Prodanović, 2007	divided -eaved viper's grass
<i>Pulicaria dysenterica</i> (L.) Gaertn.	Prodanović, 2007	common fleabane
<i>Scolymus hispanicus</i> L.	Krasniqi et al., 1981	golden thistle, spanish oyster thistle
<i>Scorzonera austriaca</i> Willd. f. <i>latifolia</i> Vis.	Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007	
<i>Scorzonera hispanica</i> L. var. <i>glastifolia</i> (Willd.) Wallr.	Prodanović, 2007	black salsify, spanish salsify
<i>Senecio erucifolius</i> L.	Prodanović, 2007	hoary ragwort
<i>Senecio leucanthemifolius</i> subsp. <i>vernalis</i> (Waldst. & Kit.) Greuter	Prodanović, 2007	eastern groundsel
<i>Serratula tinctoria</i> L.	Prodanović, 2007	dyer's plumeless saw-wort, saw-wort
<i>Solidago virgaurea</i> L.	Prodanović, 2007	goldenrod, woundwort
<i>Sonchus asper</i> (L.) Hill subsp. <i>glaucescens</i> (Jord.) Ball ex Ball	Prodanović, 2007	prickly sow-thistle
<i>Tanacetum corymbosum</i> (L.) Sch.-Bip.	Prodanović, 2007	corymbflower tansy
<i>Tanacetum vulgare</i> L.	Prodanović, 2007	common tansy, garden tansy
<i>Taraxacum campyloides</i> G.E.Haglund	Prodanović, 2007	dandelion

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<i>Tephroseria papposa</i> (Rchb.) Schur.	Prodanović, 2007	
<i>Tragopogon balcanicus</i> Velen.	Prodanović, 2007	
<i>Tragopogon dubius</i> Scop. subsp. <i>major</i> (Jacq.) Vollm	Prodanović, 2007	yellow salsify
<i>Tragopogon dubius</i> Scop.	Prodanović et al., 2004; Prodanović, 2007	yellow salsify
<i>Tragopogon pratensis</i> subsp. <i>orientalis</i> (L.) Čelak.	Prodanović, 2007	ack-go-to-bed-at-noon, meadow salsify
<i>Tragopogon pterodes</i> Petrović	Pavlović, 1967;	
<i>Tussilago farfara</i> L.	Prodanović, 2007; Krivošej et al., 2013	coltsfoot
<i>Xanthium orientale</i> subsp. <i>italicum</i> (Moretti) Greuter	Prodanović, 2007	rough cocklebur, clotbur
<i>Xeranthemum annuum</i> L.	Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović, 2007	annual everlasting, immortelle
CONVOLVULACEAE		
<i>Calystegia sepium</i> (L.) R.Br.	Prodanović, 2007	hedge bindweed
<i>Convolvulus arvensis</i> L.	Prodanović, 2007	field bindweed
<i>Convolvulus cantabrica</i> L.	Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović et al., 2004; Prodanović, 2007	cantabrian morning glory
<i>Cuscuta epithymum</i> (L.) L.	Prodanović, 2007	odder, lesser odder
<i>Cuscuta europaea</i> L.	Prodanović, 2007	greater odder, european odder
CORNACEAE		
<i>Cornus mas</i> L.	Prodanović, 2007	cornelian cherry dogwood
<i>Cornus sanguinea</i> L.	Prodanović, 2007	common dogwood
CRASSULACEAE		
<i>Hylotelephium telephium</i> (L.) H. Ohba.	Prodanović, 2007	orpine, livelong, life-everlasting
<i>Sedum acre</i> L.	Rexhepi, 1979; Randelović et al., 1982; Prodanović et al., 2004; Prodanović, 2007	goldmoss stonecrop
<i>Sedum album</i> L.	Pavlović, 1967; Rexhepi, 1979; Prodanović et al., 2004; Prodanović, 2007	white stonecrop
<i>Sedum dasyphyllum</i> L.	Rexhepi, 1979; Prodanović, 2007	corsican stonecrop
<i>Sedum hispanicum</i> L.	Prodanović, 2007	spanish stonecrop
<i>Sedum ochroleucum</i> Chaix	Prodanović, 2007	european stonecrop
<i>Sedum sexangulare</i> L.	Prodanović, 2007	tasteless stonecrop
<i>Sempervivum heuffelii</i> Schott	Pavlović, 1967; Prodanović, 2007	houseleeks
<i>Sempervivum marmoreum</i> Griseb.	Prodanović, 2007	house leek (houseleek)
CUCURBITACEAE		
<i>Bryonia cretica</i> subsp. <i>dioica</i> (Jacq.) Tutin	Prodanović, 2007	english mandrake
<i>Echinocystis lobata</i> (Michx) Torr. & A. Gray	Prodanović, 2007	wild cucumber, prickly cucumber
CYPERACEAE		
<i>Carex acuta</i> L.	Prodanović, 2007	acute sedge
<i>Carex appropinquata</i> Schumach.	Prodanović, 2007	fibrous tussock-sedge
<i>Carex caryophyllea</i> Latour.	Prodanović, 2007	vernal sedge
<i>Carex distans</i> L.	Prodanović, 2007	distant sedge
<i>Carex divulsa</i> Stokes.	Prodanović, 2007	grey sedge
<i>Carex filiformis</i> L.	Prodanović, 2007	downy-fruited sedge
<i>Carex hirta</i> L.	Prodanović, 2007	hairy sedge
<i>Carex leporina</i> L.	Prodanović, 2007	eggbract sedge, oval sedge
<i>Carex montana</i> L.	Prodanović, 2007	mountain, soft-leaved sedge
<i>Carex muricata</i> subsp. <i>pairae</i> (F.W.Schultz.) Čelak.	Prodanović, 2007	rough sedge, prickly sedge
<i>Carex ornithopoda</i> Willd.	Prodanović et al., 2004; Prodanović,	bird-foot sedge

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	2007	
<i>Carex panicea</i> L.	Prodanović, 2007	carnation sedge
<i>Carex pendula</i> Huds.	Prodanović, 2007	pendulous sedge, hanging sedge
<i>Carex riparia</i> Curtis	Prodanović, 2007	greater pond sedge
<i>Carex spicata</i> Huds.	Prodanović, 2007	spiked sedge
<i>Carex vulpina</i> L.	Prodanović, 2007	true fox sedge
<i>Schoenoplectus lacustris</i> (L.) Palla	Prodanović, 2007	lakeshore bulrush
DIPSACACEAE		
<i>Lomelosia palaestina</i> (L.) Raf.	Prodanović et al., 2010	palestine scabious
EUPHORBIACEAE		
<i>Euphorbia amygdaloides</i> L.	Prodanović, 2007; Krivošej et al., 2013	wood spurge
<i>Euphorbia barrelieri</i> Savi	Prodanović, 2007	spurge
<i>Euphorbia cyparissias</i> L.	Prodanović et al., 2004; Prodanović, 2007	cypress spurge
<i>Euphorbia esula</i> subsp. <i>tommasiana</i> (Bertol.) Kuzmanov	Prodanović, 2007	green spurge, leafy spurge
<i>Euphorbia falcata</i> L.	Prodanović, 2007	sickle spurge
<i>Euphorbia glabriflora</i> Vis.	Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Krivošej et al., 1993; Prodanović, 2007	spurge
<i>Euphorbia glareosa</i> Pall. ex M.Bieb.	Prodanović, 2007	spurge
<i>Euphorbia helioscopia</i> L.	Prodanović, 2007	sun spurge
<i>Euphorbia illyrica</i> Lam.	Prodanović, 2007	illyrian spurge
<i>Euphorbia myrsinites</i> L.	Rexhepi, 1979; Randelović et al., 1982; Prodanović, 2007	myrtle spurge, blue spurge
<i>Euphorbia platyphyllos</i> L.	Prodanović, 2007	broadleaved spurge
<i>Euphorbia salicifolia</i> Host.	Prodanović, 2007	spurge
<i>Euphorbia stricta</i> L.	Prodanović, 2007	tintern spurge
<i>Euphorbia taurinensis</i> All.	Prodanović, 2007	spurge
<i>Mercurialis ovata</i> Sternb. & Hoppe	Prodanović, 2007	
<i>Mercurialis perennis</i> L.	Prodanović, 2007	dog's mercury
FAGACEAE		
<i>Quercus cerris</i> L.	Prodanović, et al., 2004; Prodanović, 2007	turkey oak
<i>Quercus frainetto</i> Ten.	Prodanović et al., 2004; Prodanović, 2007	hungarian oak
<i>Quercus petraea</i> (Matt.) Liebl.	Prodanović, 2007	sessile oak
<i>Quercus pubescens</i> Willd.	Pavlović, 1967; Prodanović et al., 2004; Prodanović, 2007	downy oak, pubescent oak
GENTIANACEAE		
<i>Centaurium erythraea</i> Rafn	Prodanović, 2007	european centaury
<i>Gentiana cruciata</i> L.	Prodanović, 2007	cross gentian
GERANIACEAE		
<i>Erodium ciconium</i> (L.) L' Hér.	Prodanović, 2007	redstem filaree, redstem stork's bill
<i>Erodium cicutarium</i> (L.) L'Hér.	Prodanović, 2007	redstem filaree, redstem stork's bill
<i>Geranium columbinum</i> L.	Prodanović, 2007	long-stalked crane's-bill, longstalk cranesbill
<i>Geranium dissectum</i> Jusl.	Prodanović, 2007	cut-leaved crane's-bill
<i>Geranium lucidum</i> L.	Prodanović, 2007	shining cranesbill, shiny geranium
<i>Geranium molle</i> L.	Prodanović, 2007	dove's-foot crane's-bill
<i>Geranium phaeum</i> L.	Prodanović, 2007	dusky crane's-bill
<i>Geranium pyrenaicum</i> Burm.f.	Prodanović, 2007	hedgerow cranesbill
<i>Geranium robertianum</i> L.	Prodanović, 2007	herb-Robert, red robin
<i>Geranium sanguineum</i> L.	Prodanović, 2007	bloody crane's-bill
IRIDACEAE		

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<i>Crocus chrysanthus</i> (Herb.) Herb.	Prodanović, 2007	golden crocus
<i>Iris graminea</i> L.	Prodanović, 2007; Krivošej et al., 2013	grass leaved Iris
<i>Iris pseudacorus</i> L.	Prodanović, 2007	yellow iris, water flag
<i>Iris reichenbachii</i> Heuff.	Prodanović, 2007	
JUNCACEAE		
<i>Juncus bufonius</i> L.	Prodanović, 2007	toad rush
<i>Juncus compressus</i> Jacq.	Prodanović, 2007	compressed rush
<i>Juncus inflexus</i> L.	Prodanović, 2007	hard rush, blue rush
<i>Luzula campestris</i> (L.) DC.	Prodanović, 2007	field wood-rush
<i>Luzula forsteri</i> (Sm.) DC.	Prodanović, 2007	southern wood-rush
LAMIACEAE		
<i>Ajuga chamaepitys</i> (L.) Schreb.	Prodanović et al., 2004; Prodanović, 2007	yellow bugle, ground-pine
<i>Ajuga chamaepitys</i> subsp. <i>chia</i> (Schreb.) Arcang.	Prodanović, 2007	yellow bugle, ground-pine
<i>Ajuga genevensis</i> L.	Prodanović, 2007; Krivošej et al., 2013	blue bugle, geneva bugleweed
<i>Ajuga laxmannii</i> (Murray) Benth.	Prodanović, 2007	bugleweed, ground pine
<i>Ballota nigra</i> L.	Prodanović, 2007	black horehound
<i>Clinopodium acinos</i> (L.) Kuntze	Prodanović et al., 2004; Prodanović, 2007	basil thyme, spring savory
<i>Clinopodium alpinum</i> (L.) Kuntze	Prodanović, 2007	alpine calamint
<i>Clinopodium nepeta</i> subsp. <i>glandulosum</i> (Req.) Govaerts	Prodanović, 2007	lesser calamint
<i>Clinopodium thymifolium</i> (Scop.) Kuntze	Prodanović, 2007	clinopodium thymifolium from the wild
<i>Clinopodium vulgare</i> L.	Prodanović, 2007	wild basil
<i>Galeopsis speciosa</i> Mill.	Prodanović, 2007	arge-flowered hempnettle
<i>Glechoma hederacea</i> L.	Prodanović, 2007	creeping charlie
<i>Glechoma hirsuta</i> Waldst. & Kit.	Prodanović, 2007	ground-ivy
<i>Lamium amplexicaule</i> L.	Prodanović, 2007	common henbit
<i>Lamium bifidum</i> subsp. <i>balkanicum</i> Velen.	Prodanović, 2007	dead-nettles
<i>Lamium galeobdolon</i> (L.) L.	Prodanović, 2007	yellow archangel, yellow deadnettle
<i>Lamium garganicum</i> L. subsp. <i>garganicum</i>	Prodanović, 2007	large dead nettle
<i>Lamium garganicum</i> L. subsp. <i>glabratum</i> (Griseb.) Briq.	Prodanović, 2007	large dead nettle
<i>Lamium purpureum</i> L.	Prodanović, 2007	red dead-nettle
<i>Leonurus cardiaca</i> L.	Prodanović, 2007	motherwort in english
<i>Lycopus europaeus</i> L.	Prodanović, 2007	gypsywort
<i>Marrubium peregrinum</i> L.	Prodanović, 2007	horehound
<i>Marrubium vulgare</i> L.	Prodanović, 2007	white horehound, common horehound
<i>Melittis melissophyllum</i> L.	Prodanović, 2007	bastard balm
<i>Mentha aquatica</i> L.	Prodanović, 2007	water mint
<i>Mentha longifolia</i> (L.) L.	Prodanović, 2007; Krivošej et al., 2013	asian mint
<i>Nepeta cataria</i> L.	Prodanović, 2007	catnip, catswort
<i>Origanum vulgare</i> L.	Prodanović, 2007	origanum, wild marjoram
<i>Phlomis tuberosa</i> L.	Prodanović et al., 2018	tuberous jerusalem sage
<i>Prunella laciniata</i> (L.) L.	Randelović et al., 1982; Prodanović, 2007	cutleaf selfheal
<i>Prunella vulgaris</i> L.	Prodanović, 2007	common self-heal, heal-all
<i>Salvia amplexicaulis</i> Lam.	Prodanović, 2007	stem-clasping sage
<i>Salvia nemorosa</i> L.	Prodanović, 2007	woodland sage, balkan clary
<i>Salvia pratensis</i> L. subsp. <i>pozegensis</i> (Watzl) Diklic	Prodanović, 2007; Prodanović et al., 2008	meadow sage
<i>Salvia sclarea</i> L.	Prodanović et al., 2004; Prodanović,	salvia romana, clary sage



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	2007	
<i>Salvia verticillata</i> L.	Prodanović, 2007	lilac sage
<i>Scutellaria altissima</i> L.	Prodanović, 2007	tall skullcap
<i>Scutellaria galericulata</i> L.	Prodanović, 2007	marsh skullcap, hooded skullcap
<i>Sideritis montana</i> L.	Prodanović et al., 2004; Prodanović, 2007	mountain ironwort
<i>Stachys germanica</i> L.	Prodanović, 2007	downy woundwort
<i>Stachys officinalis</i> (L.) Trevis	Prodanović, 2007	common hedgenettle, betony
<i>Stachys palustris</i> L.	Prodanović, 2007	marsh woundwort
<i>Stachys recta</i> subsp. <i>baldacii</i> (K. Malý) Hayek	Randelović et al., 1982; Rexhepi, 1979; Prodanović, 2007	stiff hedgenettle
<i>Stachys recta</i> L. subsp. <i>recta</i> var. <i>chrysophaea</i> (Pančić) Hayek f. <i>chrysophae</i>	Prodanović, 2007	stiff hedgenettle
<i>Stachys scardica</i> (Gris.) Hayek	Rexhepi, 1979; Prodanović, 2007	
<i>Teucrium chamaedrys</i> L.	Prodanović et al., 2004; Prodanović, 2007	wall germander
<i>Teucrium montanum</i> L.	Pavlović, 1967; Randelović et al, 1982; Prodanović, 2007	mountain germander
<i>Teucrium montanum</i> L. subsp. <i>montanum</i>	Prodanović, 2007	mountain germander
<i>Thymus longicaulis</i> C. Presl.	Pavlović, 1967	thyme
<i>Thymus pulegioides</i> subsp. <i>montanus</i> (Benth.) Ronniger.	Prodanović, 2007	broad-leaved thyme
<i>Ziziphora capitata</i> L.	Prodanović, 2007	oriental zizifora
LEGUMINOSAE		
<i>Amorpha fruticosa</i> L.	Prodanović, 2007	false indigo bush
<i>Astragalus cicer</i> L.	Prodanović, 2007	chickpea milkvetch
<i>Astragalus dasyanthus</i> Pall.	Prodanović, 2007; Prodanović et al., 2008; Prodanović et al., 2012	milkvetch
<i>Astragalus glycyphyllos</i> L.	Prodanović, 2007	liquorice milkvetch
<i>Astragalus hamosus</i> L.	Prodanović, 2007	southern milk vetch
<i>Astragalus onobrychis</i> L.	Pavlović, 1967; Randelović et al., 1982; Prodanović, 2007	sainfoin milk vetch
<i>Chamaecytisus ciliatus</i> var. <i>alpestris</i> (Schur.) Diklić	Prodanović, 2007	
<i>Colutea arborescens</i> L.	Prodanović, 2007	bladder senna
<i>Coronilla scorpioides</i> (L.) Koch.	Prodanović, 2007	yellow crown vetch, annual scorpion-vetch
<i>Cytisus austriacus</i> subsp. <i>heuffelii</i> (Wierzb.) Asch. & Graebn	Prodanović, 2007	broom
<i>Cytisus decumbens</i> (Durande) Spach.	Randelović et al., 1982; Prodanović, 2007	scotch broom
<i>Cytisus hirsutus</i> L.	Prodanović, 2007	clustered broom
<i>Cytisus procumbens</i> (Willd.) Spreng.	Prodanović, 2007	broom
<i>Dorycnium pentaphyllum</i> subsp. <i>germanicum</i> (Gremli) Gams	Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007	prostrate canary clover, badassi
<i>Dorycnium pentaphyllum</i> subsp. <i>herbaceum</i> (Vill.) Rouy	Prodanović et al., 2004; Prodanović, 2007	prostrate canary clover, badassi
<i>Genista januensis</i> Viv.	Prodanović, 2007	broom
<i>Genista sagittalis</i> L.	Prodanović, 2007; Krivošej et al., 2013	winged broom
<i>Genista tinctoria</i> L.	Prodanović, 2007	dyer's greenweed, dyer's broom
<i>Hippocrepis comosa</i> L.	Prodanović, 2007	horseshoe vetch
<i>Hippocrepis emerus</i> (L.) Lassen	Randelović et al., 1982; Prodanović, 2007	scorpion senna
<i>Lathyrus hallersteinii</i> Baumg.	Prodanović, 2007	yellow pea
<i>Lathyrus hirsutus</i> L.	Prodanović, 2007	caley pea, singletary pea, hairy vetchling

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<i>Lathyrus latifolius</i> L.	Prodanović, 2007	everlasting-pea, perennial pea
<i>Lathyrus niger</i> (L.) Bernh.	Prodanović, 2007	black pea
<i>Lathyrus nissolia</i> L.	Prodanović, 2007	grass vetchling, grass pea
<i>Lathyrus pannonicus</i> (Jacq.) Garcke	Prodanović, 2007	felted vetch
<i>Lathyrus pratensis</i> L.	Prodanović, 2007; Krivošej et al., 2013	meadow vetchling
<i>Lathyrus setifolius</i> L.	Prodanović, 2007	narrow-leaved red vetchling
<i>Lathyrus sphaericus</i> Retz.	Prodanović, 2007	grass pea, round-seeded vetchling
<i>Lathyrus tuberosus</i> L.	Prodanović, 2007	tuberous pea, tuberous vetchling
<i>Lathyrus venetus</i> (Mill.) Wohlf.	Prodanović et al., 2004; Prodanović, 2007	bushy vetchling
<i>Lathyrus vernus</i> (L.) Bernh.	Prodanović, 2007	spring vetchling, spring pea
<i>Lembotropis nigricans</i> (L.) Griseb.	Randelović et al., 1982; Prodanović, 2007	black broom
<i>Lens nigricans</i> (M. Bieb.) Godr.	Prodanović, 2007	lens
<i>Lotus corniculatus</i> L.	Prodanović, 2007	birdsfoot trefoil
<i>Medicago arabica</i> (L.) Huds.	Prodanović, 2007	spotted medick
<i>Medicago falcata</i> L.	Randelović et al., 1982; Prodanović, 2007	yellow lucerne, sickle alfalfa
<i>Medicago lupulina</i> L.	Prodanović et al., 2004; Prodanović, 2007	black medick, nonesuch
<i>Medicago minima</i> (L.) L.	Prodanović, 2007	little burclover
<i>Medicago orbicularis</i> (L.) Bartal.	Prodanović, 2007	blackdisk medick, button clover
<i>Medicago prostrata</i> Jacq.	Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007	alfalfa, wild
<i>Medicago rigidula</i> (L.) All.	Prodanović, 2007	tifton burclover, rigid medick
<i>Medicago sativa</i> L.	Prodanović, 2007	lucerne
<i>Melilotus albus</i> Medik.	Prodanović, 2007	honey clover, white melilot
<i>Melilotus officinalis</i> (L.) Pall.	Prodanović, 2007	yellow sweet clover
<i>Onobrychis alba</i> (Waldst. & Kit.) Desv.	Prodanović, 2007	sainfoin
<i>Onobrychis viciifolia</i> Scop.	Prodanović, 2007	common sainfoin
<i>Ononis spinosa</i> subsp. <i>hircina</i> (Jacq.) Gams	Prodanović, 2007	spiny restharrow
<i>Ononis pusilla</i> L.	Prodanović, 2007	
<i>Oxytropis pilosa</i> (L.) DC.	Prodanović, 2007; Prodanović et al., 2012	hairy milk vetch
<i>Pisum sativum</i> subsp. <i>elatius</i> (M.Bieb.) Asch. & Graebn.	Prodanović, 2007	dun pea
<i>Robinia pseudoacacia</i> L.	Prodanović, 2004; Prodanović, 2007	black locust
<i>Securigera elegans</i> (Panic) Lassen	Prodanović, 2007	crownvetch
<i>Securigera varia</i> (L.) Lassen	Prodanović et al., 2004; Prodanović, 2007	purple crownvetch
<i>Trifolium angustifolium</i> L.	Prodanović, 2007	narrowleaf crimson clover
<i>Trifolium arvense</i> L.	Prodanović, 2007	hare's-foot clover
<i>Trifolium dalmaticum</i> Vis.	Prodanović, 2007	dalmatian clover
<i>Trifolium fragiferum</i> L.	Prodanović, 2007	strawberry clover
<i>Trifolium glomeratum</i> L.	Krivošej & Prodanović, 2011	clustered clover
<i>Trifolium hirtum</i> All.	Prodanović, 2007	rose clover
<i>Trifolium incarnatum</i> L.	Prodanović, 2007	crimson clover, italian clover
<i>Trifolium medium</i> L.	Prodanović, 2007	zigzag clover
<i>Trifolium montanum</i> L.	Prodanović, 2007; Krivošej et al., 2013	mountain clover
<i>Trifolium ochroleucon</i> Huds.	Prodanović, 2007	sulphur clover
<i>Trifolium patens</i> Schreb.	Prodanović, 2007; Krivošej et al., 2013	clover
<i>Trifolium pignanii</i> Fauché & Chaub.	Prodanović, 2007	clover
<i>Trifolium pratense</i> L.	Prodanović, 2007	red clover
<i>Trifolium repens</i> L.	Prodanović, 2007	white clover, landino clover
<i>Trifolium striatum</i> L.	Prodanović, 2007	knotted clover

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<i>Trifolium strictum</i> Jusl	Prodanović, 2007; Krivošej & Prodanović, 2011	upright clover
<i>Trifolium trichopterum</i> Pancic	Pavlović, 1967; Prodanović, 2007	
<i>Trigonella esculenta</i> Willd.	Prodanović, 2007	fenugreek
<i>Trigonella gladiata</i> M. Bieb.	Prodanović et al., 2010	fenugreek
<i>Vicia cracca</i> L.	Prodanović, 2007	tufted vetch, cow vetch, bird vetch
<i>Vicia cracca</i> subsp. <i>incana</i> (Gouan) Rouy.	Prodanović, 2007	tufted vetch, cow vetch, bird vetch
<i>Vicia grandiflora</i> Scop.	Prodanović, 2007	large-flowered vetch, large yellow vetch
<i>Vicia hirsuta</i> (L.) Gray	Prodanović, 2007	hairy tare, hairy vetch
<i>Vicia lathyroides</i> L.	Prodanović, 2007	spring vetch
<i>Vicia pannonica</i> Crantz	Prodanović, 2007	hungarian vetch
<i>Vicia peregrina</i> L.	Prodanović, 2007	wandering vetch
<i>Vicia pisiformis</i> L.	Prodanović, 2007	pea vetch
<i>Vicia sativa</i> L.	Prodanović, 2007	common vetch
<i>Vicia sativa</i> subsp. <i>nigra</i> (L.) Ehrh.	Prodanović, 2007	common vetch, garden vetch
<i>Vicia sparsiflora</i> Ten.	Prodanović, 2007	vetch
<i>Vicia tenuifolia</i> Roth.	Prodanović, 2007	fine-leaved vetch, cow vetch
<i>Vicia villosa</i> Roth.	Prodanović, 2007	winter vetch, hairy vetch
<b>LILIACEAE</b>		
<i>Erythronium dens-canis</i> L.	Prodanović, 2007	dog's tooth violet
<i>Fritillaria montana</i> Hoppe ex W.D.J. Koch	Prodanović, 2007	missionbells
<i>Gagea lutea</i> (L.) Ker Gawl.	Prodanović, 2007	yellow star-of-bethlehem
<i>Gagea pusilla</i> (F.W.Schmidt) Sweet	Krivošej et al., 1995-1998, Prodanović, 2007	yellow star-of-bethlehem
<i>Lilium martagon</i> L.	Prodanović, 2007	martagon lily, turk's cap lily
<i>Tulipa sylvestris</i> L.	Prodanović, 2007	wild tulip, woodland tulip
<i>Tulipa serbica</i> Tatić & Krivošej	Tatić & Krivošej, 1997; Prodanović, 2007; Prodanović et al., 2008	serbian tulip
<b>LINACEAE</b>		
<i>Linum bienne</i> Mill.	Prodanović, 2007	pale, narrowleaf flax
<i>Linum austriacum</i> L.	Prodanović, 2007	austrian flax
<i>Linum flavum</i> L.	Prodanović, 2007	golden flax, yellow flax
<i>Linum nervosum</i> Waldst.& Kit.	Krivošej & Prodanović, 2011	
<i>Linum tenuifolium</i> L.	Pavlović, 1967; Prodanović, 2007	narrow-leaved flax
<b>LYTHRACEAE</b>		
<i>Lythrum salicaria</i> L.	Prodanović, 2007	purple loosestrife
<b>MALVACEAE</b>		
<i>Althaea hirsuta</i> L.	Prodanović, 2007	hairy marshmallow
<i>Althaea officinalis</i> L.	Prodanović, 2007	marsh-mallow
<i>Lavatera thuringiaca</i> L.	Krasniqi et al., 1981; Prodanović, 2007	garden tree-mallow
<i>Malva sylvestris</i> L.	Prodanović, 2007	high mallow
<i>Tilia cordata</i> Mill.	Prodanović, 2007	small-leaved lime
<i>Tilia tomentosa</i> Moench	Prodanović, 2007	silver lime
<b>MELANTHIACEAE</b>		
<i>Veratrum nigrum</i> L.	Prodanović, 2007	black false hellebore
<b>NYMPHAEACEAE</b>		
<i>Nuphar lutea</i> (L.) Sm.	Prodanović et al., 2010	yellow pond-lily
<b>OLEACEAE</b>		
<i>Fraxinus ornus</i> L.	Prodanović et al., 2004; Prodanović, 2007	mannan ash
<i>Ligustrum vulgare</i> L.	Prodanović, 2007	wild privet
<b>ONAGRACEAE</b>		
<i>Epilobium angustifolium</i> L.	Prodanović, 2007	fireweed

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<i>Epilobium hirsutum</i> L.	Prodanović, 2007	great willowherb
<i>Epilobium parviflorum</i> Schreb.	Prodanović, 2007	hoary willowherb
<i>Oenothera biennis</i> L.	Prodanović, 2007	common evening-primrose
ORCHIDACEAE		
<i>Anacamptis morio</i> (L.) R.M.Bateman, Pridgeon & M.W.Chase	Prodanović, 2007; Prodanović et al., 2008	green-winged orchid
<i>Anacamptis papilionaceae</i> (L.) R.M.Bateman, Pridgeon & M.W.Chase	Prodanović, 2007; Prodanović et al., 2008	butterfly orchid
<i>Anacamptis pyramidalis</i> (L.) Rich.	Prodanović, 2007	pyramidal orchid
<i>Cephalanthera damasonium</i> (Mill.) Druce	Prodanović, 2007	white helleborine
<i>Cephalanthera rubra</i> (L.) Rich.	Prodanović, 2007; Prodanović et al., 2008	red helleborine
<i>Epipactis helleborine</i> (L.) Crantz.	Prodanović, 2007	broad-leaved helleborine
<i>Epipactis helleborine</i> (L.) Crantz. subsp. <i>helleborine</i>	Prodanović, 2007	broad-leaved helleborine
<i>Epipactis microphylla</i> (Ehrh.) Sw.,	Prodanović et al., 2004; Prodanović, 2007; Prodanović et al., 2008;	small-leaved helleborine
<i>Himantoglossum caprinum</i> (M. Bieb.) Spreng.	Prodanović et al., 2018	
<i>Limodorum abortivum</i> (L.) Sw.	Prodanović, 2007; Prodanović et al., 2008	violet limodore
<i>Neottia nidus-avis</i> (L.) Rich.	Prodanović, 2007; Prodanović et al., 2008;	bird's-nest orchid
<i>Neotinea tridentata</i> (Scop.) R.M.Bateman, Pridgeon & M.W.Chase	Prodanović, 2007; Prodanović et al., 2008; Krivošej et al., 2013	three-toothed orchid
<i>Ophrys apifera</i> Huds.	Prodanović, 2007	bee orchid
<i>Orchis mascula</i> (L.) L.	Prodanović, 2007; Prodanović et al., 2008;	early-purple orchid, early spring orchis
<i>Orchis purpurea</i> Huds.	Prodanović, 2007; Prodanović et al., 2008;	lady orchid
<i>Platanthera bifolia</i> (L.) Rich	Prodanović, 2007; Prodanović et al., 2008	lesser butterfly-orchid
OROBANCHACEAE		
<i>Lathraea squamaria</i> L.	Prodanović, 2007	common toothwort
<i>Melampyrum arvense</i> L.	Prodanović, 2007	field cow-wheat
<i>Melampyrum cristatum</i> L.	Prodanović, 2007	crested cow-wheat
<i>Melampyrum heracleoticum</i> Boiss. & Orph.	Prodanović, 2007; Prodanović et al., 2008	cow wheat
<i>Orobanche alba</i> Stephan ex Willd.	Prodanović, 2007	scalloped broomrape
<i>Orobanche caryophyllacea</i> Sm.	Prodanović, 2007	clove-scented broomrape
<i>Parentucellia latifolia</i> Caruel	Prodanović, 2007	broadleaf glandweed
<i>Pedicularis comosa</i> subsp. <i>campestris</i> (Griseb. & Schenk) Soó	Prodanović, 2007	glandweed
<i>Pedicularis comosa</i> L.	Prodanović, 2007	glandweed
<i>Pedicularis friderici-augusti</i> Tomm.	Prodanović, 2007	Frederick Augustus' lousewort
<i>Rhinanthus rumelicus</i> Velen.	Prodanović, 2007	rattle
PAPAVERACEAE		
<i>Chelidonium majus</i> L.	Prodanović, 2007	reater celandine, nipplewort
<i>Corydalis cava</i> (L.) Schweigg. & Körte	Prodanović, 2007	hollow root
<i>Corydalis solida</i> (L.) Clairv.	Prodanović, 2007	fumewort
<i>Papaver dubium</i> L.	Prodanović, 2007	long-headed poppy
<i>Papaver rhoeas</i> L.	Prodanović, 2007	common poppy, corn poppy
PLANTAGINACEAE		
<i>Digitalis laevigata</i> Waldst. & Kit.	Prodanović, 2007	grecian foxglove
<i>Digitalis lanata</i> Ehrh.	Prodanović et al., 2004; Prodanović, 2007	woolly foxglove
<i>Linaria genistifolia</i> (L.) Mill.	Pavlović, 1967; Prodanović, 2007	toadflax
<i>Linaria genistifolia</i> (L.) Mill. subsp. <i>genistifolia</i>	Prodanović, 2007	broomleaf toadflax

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<i>Linaria vulgaris</i> Mill.	Prodanović, 2007	yellow toadflax
<i>Plantago argentea</i> Chaix	Rexhepi, 1979; Prodanović, 2007	silver plantain
<i>Plantago lanceolata</i> L.	Prodanović, 2007	ribwort plantain
<i>Plantago major</i> L.	Prodanović, 2007	roadleaf plantain, white man's foot, greater plantain
<i>Plantago major</i> L. subsp. <i>major</i>	Prodanović, 2007	roadleaf plantain, white man's foot, greater plantain
<i>Plantago media</i> L.	Prodanović, 2007	hoary plantain
<i>Plantago subulata</i> L.		plantain
<i>Veronica anagallis-aquatica</i> L.	Prodanović, 2007	water speedwell
<i>Veronica arvensis</i> L.	Prodanović, 2007	wall speedwell, corn speedwell
<i>Veronica austriaca</i> L.	Prodanović, 2007	broadleaf speedwell, large speedwell
<i>Veronica beccabunga</i> L.	Prodanović, 2007	european speedwell, brooklime
<i>Veronica chamaedrys</i> L.	Prodanović, 2007	germander speedwell, bird's-eye speedwell
<i>Veronica hederifolia</i> L.	Prodanović, 2007	ivy-leaved speedwell
<i>Veronica officinalis</i> L.	Prodanović, 2007	heath speedwell
<i>Veronica persica</i> Poir.	Prodanović, 2007	persian speedwell
<i>Veronica polita</i> Fr.	Prodanović, 2007	grey field-speedwell
<i>Veronica praecox</i> All.	Prodanović, 2007	breckland speedwell
<i>Veronica prostrata</i> L.	Prodanović, 2007	rock speedwell
<i>Veronica serpyllifolia</i> L.	Prodanović, 2007	thyme-leaved speedwell
<i>Veronica serpyllifolia</i> L. subsp. <i>serpyllifolia</i>	Prodanović, 2007	thyme-leaved speedwell
<i>Veronica spicata</i> L.	Prodanović, (unpublished, field observation)	spike speedwell
<b>PLUMBAGINACEAE</b>		
<i>Goniolimon incanum</i> (L.) Hepper	Prodanović, 2007	lavender statice, sea lavender
<i>Goniolimon collinum</i> (Griseb.) Boiss.	Pavlović, 1967; Prodanović, 2007	sea lavender
<i>Goniolimon tataricum</i> (L.) Boiss.	Prodanović, 2007	german statice, tatarian statice
<b>POACEAE</b>		
<i>Aegilops cylindrica</i> Host	Prodanović, 2007	jointed goatgrass
<i>Aegilops geniculata</i> Roth.	Prodanović, 2007	goat grass, ovate goatgrass
<i>Agropyron cristatum</i> (L.) Gaertn.	Rexhepi, 1979; Prodanović, 2007	crested wheatgrass
<i>Agrostis stolonifera</i> L.	Prodanović, 2007	creeping bentgrass, fiorin
<i>Alopecurus myosuroides</i> Huds.	Prodanović, 2007	mousetail grass, black grass
<i>Alopecurus pratensis</i> L.	Prodanović, 2007; Krivošej et al., 2013	meadow foxtail
<i>Anthoxanthum odoratum</i> L.	Prodanović, 2007; Krivošej et al., 2013	sweet vernal grass
<i>Apera spica-venti</i> (L.) P. Beauv.	Prodanović, 2007	common windgrass
<i>Arrhenatherum elatius</i> (L.) P. Beauv. ex J.Presl & C.Presl	Prodanović, 2007	false oat-grass
<i>Brachypodium silvaticum</i> (Huds.) P. Beauv.	Prodanović, 2007	slender false-brome
<i>Bothriochloa ischaemum</i> (L.)	Prodanović, 2007	yellow bluestem
<i>Briza media</i> L. Keng	Prodanović, 2007; Krivošej et al., 2013	quaking grass
<i>Bromus arvensis</i> L.	Prodanović, 2007	field brome
<i>Bromus commutatus</i> Schrad.	Prodanović, 2007	meadow brome
<i>Bromus erectus</i> Huds.	Rexhepi, 1979; Prodanović, 2007	erect brome, upright brome
<i>Bromus hordeaceus</i> L.	Prodanović, 2007	soft brome
<i>Bromus inermis</i> Leyss.	Prodanović, 2007	smooth brome
<i>Bromus racemosus</i> L.	Prodanović, 2007	smooth brome
<i>Bromus squarrosus</i> L.	Prodanović, 2007	corn brome
<i>Bromus sterilis</i> L.	Rexhepi, 1979; Prodanović, 2007	poverty brome
<i>Bromus tectorum</i> L.	Prodanović, 2007	drooping brome, cheatgrass
<i>Chrysopogon gryllus</i> (L.) Trin	Rexhepi, 1979; Prodanović, 2007	
<i>Cynodon dactylon</i> (L.) Pers.	Prodanović, 2007	bermuda grass, couch grass

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<i>Cynosurus cristatus</i> L.	Prodanović, 2007; Krivošej et al., 2013	crested dogstail grass
<i>Dactylis glomerata</i> L.	Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013	cock's-foot, orchard grass
<i>Danthonia alpina</i> Vest.	Prodanović, 2007; Krivošej et al., 2013	heathgrass, wallaby grass
<i>Dasyphyrum villosum</i> (L.) Borbás	Prodanović, 2007	mosquitograss
<i>Eragrostis minor</i> Host	Prodanović, 2007	ovegrass, canegrass
<i>Elymus hispidus</i> (Opiz) Melderis	Prodanović, 2007	hairy couch grass
<i>Elytrigia repens</i> (L.) Nevski.	Prodanović, 2007	couch grass
<i>Festuca arundinacea</i> Schreb.	Prodanović, 2007	tall fescue
<i>Festuca pratensis</i> Huds.	Prodanović, 2007	meadow fescue
<i>Festuca rubra</i> L.	Prodanović, 2007	red fescue
<i>Festuca valesiaca</i> Schleich. ex Gaudin	Prodanović, 2007	volga fescue
<i>Glyceria fluitans</i> (L.) R.Br.	Prodanović, 2007	floating sweet-grass, water mannagrass
<i>Glyceria notata</i> Chevall.	Prodanović, 2007	plicate sweet grass
<i>Helictotrichon compressum</i> (Heuff.) Henrard	Prodanović, 2007	
<i>Holcus lanatus</i> L.	Prodanović, 2007	yorkshire fog, tufted grass
<i>Hordeum murinum</i> subsp. <i>leporinum</i> (Link) Arcang.	Prodanović, 2007	wall barley
<i>Koeleria macrantha</i> (Ledeb.) Schult.	Prodanović, (unpublished, field observation)	prairie junegrass
<i>Koeleria pyramidata</i> (Lam.) P. Beauv.	Prodanović, 2007	
<i>Lolium perenne</i> L.	Prodanović, 2007	perennial ryegrass, english ryegrass
<i>Melica ciliata</i> L.	Pavlović, 1967; Prodanović et al., 2004; Prodanović, 2007	hairy melic, silky spike melic
<i>Melica nutans</i> L.	Prodanović, 2007	mountain melick
<i>Melica uniflora</i> Retz.	Prodanović, 2007	wood melick
<i>Milium effusum</i> L.	Prodanović, 2007	american milletgrass, wood millet
<i>Phalaris arundinacea</i> L.	Prodanović, 2007	reed canary grass
<i>Phleum montanum</i> K.Koch	Prodanović, 2007	Timothy grass
<i>Phleum phleoides</i> (L.) H. Karst.	Prodanović, 2007	boehmer's cat's-tail, purple-stem cat's-tail
<i>Phleum pratense</i> L.	Prodanović, 2007	Timothy grass, meadow cat's-tail
<i>Phragmites australis</i> (Cav.) Trin. ex Steud.	Prodanović, 2007	common reed
<i>Poa annua</i> L.	Prodanović, 2007	annual meadow grass
<i>Poa bulbosa</i> L.	Prodanović, 2007	bulbous bluegrass
<i>Poa compressa</i> L.	Prodanović, 2007	canada bluegrass
<i>Poa nemoralis</i> L.	Prodanović, 2007	wood bluegrass
<i>Poa pratensis</i> L.	Prodanović, 2007; Krivošej et al., 2013	kentucky bluegrass
<i>Poa perconcinna</i> J. R. Edm.	Prodanović, 2007	
<i>Poa trivialis</i> L.	Prodanović, 2007	rough bluegrass
<i>Sclerochloa dura</i> (L.) P. Beauv.	Prodanović, 2007	common hardgrass
<i>Sesleria rigida</i> Heuff. ex Rchb.	Prodanović, 2007	
<i>Stipa capillata</i> L.	Prodanović, 2007	needle grass
<i>Stipa joannis</i> Celak	Prodanović, 2007	feather grass
<i>Taeniatherum caput-medusae</i> (L.) Nevski	Prodanović, 2007	medusahead wildrye
<i>Tragus racemosus</i> (L.) All.	Krivošej et al. 1995-1998; Prodanović, 2007	stalked bur grass
<i>Vulpia myuros</i> (L.) C.C.Gmel.	Prodanović, 2007	annual fescue
POLYGALACEAE		
<i>Polygala major</i> Jacq.	Prodanović, 2007	milkworts, snakeroots
<i>Polygala supina</i> Schreb.	Pavlović, 1967; Prodanović, 2007	milkwort
POLYGONACEAE		

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<i>Fallopia convolvulus</i> (L.) Á. Löve	Prodanović, 2007	black-bindweed, wild buckwheat
<i>Fallopia dumetorum</i> (L.) Holub	Prodanović, 2007	european climbing buckwheat
<i>Persicaria lapathifolia</i> (L.) Delarbre	Prodanović, 2007	pale persicaria
<i>Polygonum aviculare</i> L.	Prodanović, 2007	common knotgrass
<i>Rumex acetosa</i> L.	Prodanović, 2007; Krivošej et al., 2013	sorrel
<i>Rumex acetosella</i> L.	Prodanović, 2007	red sorrel, sheep's sorrel
<i>Rumex conglomeratus</i> Murray	Prodanović, 2007	clustered dock, sharp dock
<i>Rumex crispus</i> L.	Prodanović, 2007	curled dock, yellow dock
<i>Rumex obtusifolius</i> L.	Prodanović, 2007	bitter dock
<i>Rumex pulcher</i> L.	Prodanović, 2007	fiddle dock
PRIMULACEAE		
<i>Anagallis arvensis</i> L.	Prodanović, 2007	scarlet pimpernel
<i>Anagallis foemina</i> Mill.	Prodanović, 2007	blue pimpernel
<i>Androsace elongata</i> L.	Prodanović et al., 2012	rock jasmine, elongate ilisha
<i>Lysimachia nummularia</i> L.	Prodanović, 2007; Krivošej et al., 2013	moneywort, creeping jenny
<i>Primula veris</i> Huds.	Prodanović, 2007	ommon cowslip
<i>Primula acaulis</i> (L.) L.	Krivošej et al., 2013	common primrose
RANUNCULACEAE		
<i>Anemone apennina</i> L.	Prodanović, 2007	blue anemone
<i>Anemone nemorosa</i> L.	Prodanović, 2007	wood anemone
<i>Clematis recta</i> L.	Prodanović, 2007	erect clematis, ground virginsbower
<i>Consolida regalis</i> Gray	Prodanović, 2007	forking larkspur, rocket-larkspur
<i>Ficaria verna</i> Huds.	Prodanović (unpublished, field observation)	fig buttercup
<i>Helleborus odorus</i> Waldst. & Kit. ex Willd.	Prodanović et al., 2004; Prodanović, 2007	fragrant hellebore
<i>Helleborus multifidus</i> subsp. <i>serbicus</i> (Adamovic) Merxm.& Podlech	Prodanović, 2007	hellebore
<i>Hepatica nobilis</i> Mill.	Prodanović, 2007	common hepatica, liverwort
<i>Nigella arvensis</i> L.	Prodanović, 2007	love-in-a-mist, black bread-weed
<i>Pulsatilla vulgaris</i> subsp. <i>grandis</i> (Wender) Zämelis	Prodanović, 2007	pasqueflower
<i>Ranunculus arvensis</i> L.	Prodanović, 2007	corn buttercup
<i>Ranunculus bulbosus</i> L.	Prodanović, 2007	bulbous buttercup
<i>Ranunculus millefoliatus</i> Vahl	Prodanović, 2007; Krivošej et al., 2013	erusalem butercup
<i>Ranunculus polyanthemos</i> L.	Prodanović, 2007	multiflowered buttercup
<i>Ranunculus psilostachys</i> Griseb.	Prodanović, 2007	buttercup
<i>Ranunculus repens</i> L.	Prodanović, 2007	the creeping buttercup
<i>Ranunculus sceleratus</i> L.	Prodanović, 2007	celery-leaved buttercup
<i>Ranunculus serbicus</i> Vis.	Prodanović, 2007	
<i>Thalictrum flavum</i> L.	Prodanović, 2007	common meadow-rue
<i>Thalictrum lucidum</i> L.	Prodanović, 2007	shaning meadow rue
<i>Thalictrum minus</i> L.	Prodanović, 2007	lesser meadow-rue
RESEDAEAE		
<i>Reseda lutea</i> L.	Prodanović, 2007	wild mignonette
<i>Reseda luteola</i> L.	Prodanović, 2007	dyer's weed, weld, woold, yellow weed
<i>Reseda phyteuma</i> L.	Prodanović, 2007	rampion mignonette
RHAMNACEAE		
<i>Frangula alnus</i> Mill.	Prodanović, 2007	alder buckthorn
<i>Paliurus spina-christi</i> Mill.	Prodanović, 2007	Jerusalem thorn
<i>Rhamnus saxatilis</i> subsp. <i>tinctoria</i> Nyman	Prodanović, 2007	rock buckthorn
ROSACEAE		
<i>Agrimonia eupatoria</i> L.	Prodanović, 2007	agrimony, cocklebur

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<i>Amelanchier ovalis</i> Medik.	Prodanović, 2007	snowy mespilus
<i>Aremonia agrimonioides</i> (L.) DC.	Krivošej et al., 2013	bastard-agrimony
<i>Cotoneaster integerrimus</i> Medik.	Prodanović, 2007	cotoneaster
<i>Crataegus monogyna</i> Jacq.	Prodanović et al., 2004; Prodanović, 2007	ommon hawthorn
<i>Filipendula vulgaris</i> Moench.	Prodanović, 2007; Krivošej et al., 2013	dropwort,fern-leaf dropwort
<i>Fragaria vesca</i> L.	Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013	wild strawberry
<i>Geum urbanum</i> L.	Prodanović, 2007; Krivošej et al., 2013	wood avens
<i>Malus florentina</i> (Zuccagni) C.K. Schneid.	Prodanović et al., 2013	florentine crabapple
<i>Malus sylvestris</i> (L.) Mill.	Prodanović, 2007	european crab apple
<i>Potentilla argentea</i> L.	Prodanović et al., 2004; Prodanović, 2007	hoary cinquefoil, silver cinquefoil
<i>Potentilla heptaphylla</i> subsp. <i>australis</i> (Nyman) Gams	Prodanović et al., 2004; Prodanović, 2007	
<i>Potentilla hirta</i> L. var. <i>zlatiborensis</i> Novak	Rexhepi, 1979; Prodanović, 2007	hairy cinquefoil
<i>Potentilla micrantha</i> Ramond ex DC	Prodanović, 2007	pink barren strawberry
<i>Potentilla neglecta</i> Baumg.	Prodanović, 2007	
<i>Potentilla recta</i> L.	Prodanović, 2007	sulfur cinquefoil
<i>Potentilla tommasiniana</i> F. W. Schultz.	Pavlović, 1967	
<i>Potentilla visianii</i> Pančić	Rexhepi, 1979; Prodanović, 2007; Prodanović et al., 2008	
<i>Prunus avium</i> (L.) L.	Prodanović et al., 2004; Prodanović, 2007	wild cherry
<i>Prunus mahaleb</i> L.	Prodanović, 2007	mahaleb cherry
<i>Prunus spinosa</i> subsp. <i>dasyphylla</i> (Schur) Domin	Prodanović, 2007	blackthorn, sloe
<i>Prunus spinosa</i> L. subsp. <i>spinosa</i>	Prodanović et al., 2004; Prodanović, 2007	blackthorn, sloe
<i>Pyrus spinosa</i> Forssk.	Prodanović, 2007	almond-leaved pear
<i>Rosa arvensis</i> Huds.	Prodanović, 2007	field rose
<i>Rosa canina</i> L.	Prodanović, 2007	dog rose
<i>Rosa corymbifera</i> Borkh.	Prodanović, 2007	rose
<i>Rosa x dumetorum</i> Thuill	Prodanović, 2007	corymb rose
<i>Rosa gallica</i> L.	Prodanović, 2007; Krivošej et al., 2013	french rose
<i>Rosa micrantha</i> Borrer ex Sm.	Prodanović, 2007	rugosa rose
<i>Rosa rubiginosa</i> L.	Prodanović, 2007	sweetbriar rose
<i>Rosa spinosissima</i> L.	Prodanović, 2007	scotch rose
<i>Rubus caesius</i> L.	Prodanović, 2007	european dewberry
<i>Rubus ulmifolius</i> Schott	Prodanović, 2007	elm-leaf blackberry
<i>Sanguisorba minor</i> Scop	Prodanović, 2007; Krivošej et al., 2013	salad burnet
<i>Sanguisorba officinalis</i> L.	Prodanović, 2007	great burnet
<i>Spiraea media</i> Schmidt	Prodanović, 2007	spirea
<i>Sorbus aucuparia</i> L.	Prodanović, 2007	mountain ash
<i>Sorbus torminalis</i> (L.) Crantz	Prodanović, 2004; Prodanović, 2007	wild service tree, chequers
<i>Waldsteinia geoides</i> Willd.	Prodanović et al.,2010	barren strawberries
<b>RUBIACEAE</b>		
<i>Asperula cynanchica</i> L.	Rexhepi, 1979; Prodanović, 2007	squinancywort, squincywort
<i>Asperula purpurea</i> (L.) Ehrend.	Prodanović, 2007	purple squinancywort
<i>Cruciata glabra</i> (L.) Opiz.	Prodanović, 2007	
<i>Cruciata laevipes</i> Opiz.	Prodanović, 2007; Krivošej et al., 2013	crosswort smooth bedstraw
<i>Cruciata pedemontana</i> (Bellardi) Ehrend., All.	Prodanović, 2007	Piedmont bedstraw
<i>Galium aparine</i> L.	Prodanović, 2007	catchweed bedstraw
<i>Galium mollugo</i> L.	Prodanović, 2007	hedge bedstraw



CLASS/ FAMILY/Species	Source/Literature	Common English names
<i>Galium pseudoaristatum</i> Schur	Prodanović, 2007	bedstraw
<i>Galium verum</i> L.	Prodanović, 2007	yellow bedstraw
<i>Sherardia arvensis</i> L.	Prodanović, 2007	blue fieldmadder
RUTACEAE		
<i>Dictamnus albus</i> L.	Prodanović, 2007	burning bush, dittany
<i>Haplophyllum boissierianum</i> Vis. et Pančić	Pavlović, 1967; Randelović et al., 1982; Prodanović, 2007; Prodanović et al., 2008	
SALICACEAE		
<i>Populus alba</i> L.	Prodanović, 2007	silver poplar, silverleaf poplar
<i>Populus nigra</i> L.	Prodanović, 2007	black poplar
<i>Populus tremula</i> L.	Prodanović, 2007; Krivošej et al., 2013	aspen, common aspen
<i>Salix alba</i> L.	Prodanović, 2007	golden willow, white willow
<i>Salix caprea</i> L.	Prodanović, 2007	goat willow, pussy willow
<i>Salix eleagnos</i> Scop.	Prodanović, 2007	bitter willow, olive willow
<i>Salix x fragilis</i> L.	Prodanović, 2007	crack willow
<i>Salix purpurea</i> L.	Prodanović, 2007	purple willow
SANTALACEAE		
<i>Arceuthobium oxycedri</i> (DC.) M. Bieb.	Randelović et al., 1982; Prodanović 2007	juniper dwarf mistletoe
<i>Comandra umbellata</i> subsp. <i>elegans</i> (Rochel ex Rchb.) Piehl	Prodanović, 2007	bastard toadflax
<i>Thesium arvense</i> Horv.	Rexhepi, 1979; Prodanović, 2007	
SAPINDACEA		
<i>Acer campestre</i> L.	Prodanović et al., 2004; Prodanović, 2007	field maple
<i>Acer campestre</i> subsp. <i>marsicum</i> (Guss.) Hayek	Prodanović, 2007	field maple
<i>Acer platanoides</i> L.	Prodanović, 2007	emerald queen maple, norway maple
<i>Acer pseudoplatanus</i> L.	Prodanović, 2007	sycamore
<i>Acer tataricum</i> L.	Prodanović, 2007	tatarian maple
SAXIFRAGACEAE		
<i>Saxifraga paniculata</i> Mill.	Rexhepi, 1979; Prodanović, 2007	alpine saxifrage
<i>Saxifraga bulbifera</i> L.	Prodanović, 2007	bulbous saxifrage
<i>Saxifraga rotundifolia</i> L.	Prodanović, 2007	round-leaved saxifrage
<i>Saxifraga tridactylites</i> L.	Prodanović, 2007	rue-leaved saxifrage
SCROPHULARIACEAE		
<i>Scrophularia canina</i> subsp. <i>bicolor</i> (Sm.) Greuter	Prodanović, 2007	dog figwort
<i>Scrophularia canina</i> L.	Randelović et al., 1982; Prodanović, 2007	dog figwort
<i>Scrophularia canina</i> L. subsp. <i>tristis</i> (K. Malý) V. Nikolic	Pavlović, 1967; Prodanović, 2007	dog figwort
<i>Scrophularia nodosa</i> L.	Prodanović, 2007	figwort, woodland figwort
<i>Scrophularia umbrosa</i> Dumort.	Prodanović, 2007	green figwort
<i>Verbascum banaticum</i> Schrad.	Prodanović, 2007	mullein
<i>Verbascum chaixii</i> Vill.	Prodanović, 2007	narrow-leaved mullein
<i>Verbascum nigrum</i> L.	Prodanović, 2007	black mullein, dark mullein
<i>Verbascum phlomoides</i> L.	Prodanović, 2007	orange mullein
<i>Verbascum phoeniceum</i> L.	Prodanović, 2007	purple mullein
SOLANACEAE		
<i>Datura stramonium</i> L.	Prodanović, 2007	thorn apple, jimsonweed
<i>Hyoscyamus niger</i> L.	Prodanović, 2007	henbane, black henbane
<i>Lycium barbarum</i> L.	Prodanović, 2007	chinese boxthorn, Himalayan goji
<i>Solanum dulcamara</i> L.	Prodanović, 2007	bittersweet, bittersweet nightshade

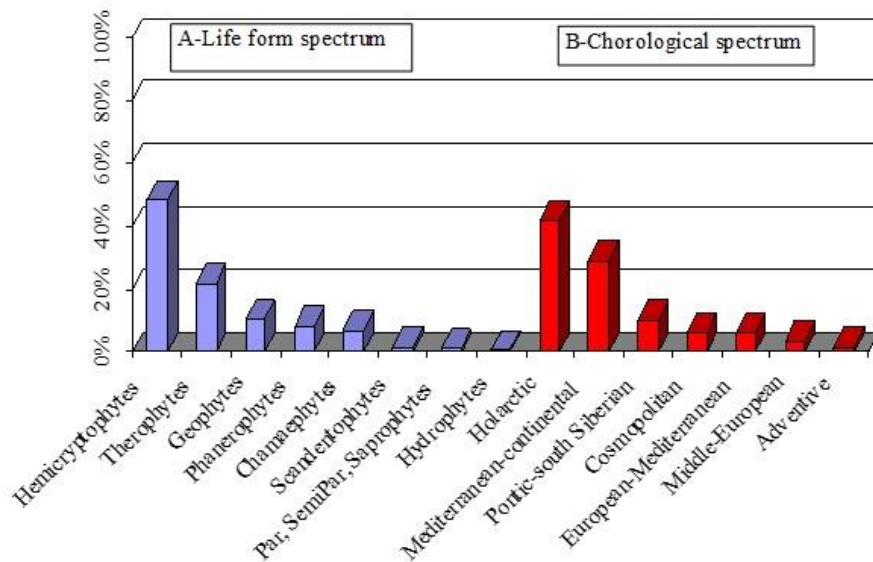
CLASS/ FAMILY/Species	Source/Literature	Common English names
THYMELAEACEAE		
<i>Thymelaea passerina</i> (L.) Coss. & Germ.	Prodanović et al., 2010	sparrow-wort
ULMACEAE		
<i>Ulmus carpinifolia</i> Gled.	Prodanović, 2007	elm
<i>Ulmus laevis</i> Pall.	Prodanović, 2007	european white elm, fluttering elm
<i>Ulmus minor</i> Mill.	Prodanović et al., 2004; Prodanović, 2007	elm
<i>Ulmus minor</i> Mill var. <i>tortuosa</i> (Host) Hayek	Prodanović, 2007	elm
URTICACEAE		
<i>Parietaria officinalis</i> L.	Prodanović, 2007	eastern pellitory-of-the-wall
<i>Urtica dioica</i> L.	Prodanović, 2007	common nettle, stinging nettle
VERBENACEAE		
<i>Verbena officinalis</i> L.	Prodanović, 2007	common vervain
VIBURNACEAE		
<i>Sambucus ebulus</i> L.	Prodanović, 2007	danewort, dane weed
<i>Sambucus nigra</i> L.	Prodanović, 2007	elderberry, black elder
VIOLACEAE		
<i>Viola arvensis</i> Murray	Randelović et al., 1982; Prodanović, 2007	field pansy
<i>Viola hirta</i> L.	Prodanović, 2007	sweet violet, english violet
<i>Viola kitaibeliana</i> Schult.	Prodanović, 2007	Kitaibel's violet
<i>Viola reichenbachiana</i> Boreau	Prodanović, 2007	early dog-violet, pale wood violet

A vast majority of genera belong to the family *Compositae* (51), followed by *Poaceae* (38), *Apiaceae* (26), *Brassicaceae* (24), *Leguminosae* (24), *Lamiaceae* (22). Among the genera the most species rich are *Trifolium* (17) followed by *Carex* (16), *Euphorbia* (14), *Veronica* (14), *Vicia* (13), *Lathyrus* (12), *Hieracium* (11), *Centaurea* (8), *Medicago* (8), *Rosa* (7) etc. The dominance of the genera *Trifolium*, *Vicia* and *Lathyrus* (*Leguminosae* family) is most likely conditioned by the higher presence of areas under xerothermic meadows and pastures as well as thermophilic rocks in the study area. Genus *Carex* is on second position. This is explained by the fact that species within this genus require moist habitats, which were abundant in the investigated terrains, on the banks of river Ibar, as well as streams flowing into the river. Genera *Trifolium* and *Carex* are also dominant in serpentine complexes in Eastern Rhodopes (Bulgaria) (Pavlova et al., 2004).

31 taxa in total have been recorded in this area for the first time and they present a novelty for the flora of Kosovo and Metohija and entire Serbia. The records for most of these were first published in Prodanović et al. (2004, 2008, 2010, 2012, 2013, 2018).

### ***Life-form spectrum and phytogeographical analysis***

The analysis of life forms indicates domination of hemicryptophytes (48.29%) (Fig. 2). The significant representation of therophytes (21.99%), is typical for the serpentine floras, where the plants are adapted to ensure reproduction within a short period of time under stress conditions (Brooks, 1987). Other herbal life forms are present in smaller numbers, geophytes (10.54%) phanerophytes (8.27%), chamaephytes (6.91%), scandentophytes (1.81%) etc. Such biological spectrum is characteristic for the Balkan Peninsula, as well as for the territory of Serbia (Diklić, 1984).



**Figure 2.** Life form spectrum (A) and chorological spectrum (B), by basic area types, of the serpentine flora in the middle course of the Ibar river valley

The chorological floristic analysis indicates that this is an area with interim holarctic-Mediterranean character (Fig. 2). Holarctic areal type with 369 taxa (41.83%) is the most presented on the terrain, followed by Mediterranean – continental areal type (29.18%) and pontic – south Siberian areal type (10.31%), cosmopolitan areal type (6.45%) as well as central European –Mediterranean (6.23%). The least reported species in the serpentine terrains of the Ibar river valley are Middle European dispersion areal type and Adventive areal type. The presence of plants belonging to Adventive areal type indicates anthropogenic influence, which is present in settlements around river banks, as well as around main roads and local rural roads. Xeromorphic species are predominant due to conditions for their growth on serpentine soil.

### **Endemism and internationally significant vascular plants**

Serpentine habitats are the most important endemic regions in the world and also called “geological islands” (Kurt et al., 2013). Despite the shallow active layer of serpentine soil, biodiversity is high with a great number of interesting local and regional endemics (Shuka and Hallaçi, 2010). It is estimated that the total number of endemic plants in the Balkans is bigger than 2200 taxa. 300-350 (15-16%) taxa of this number have been identified on the serpentine background; 123 of them are obligate serpentine endemics (Stevanović et al., 2003).

Due to diverse physical and geographical characteristics, the Republic of Serbia has a considerable number of endemic plant taxa. Centres of endemism are located in the southern and eastern regions of Serbia and on the territory of Kosovo and Metohija (Gavrilović et al., 2017). The serpentine mountains of Central Serbia along the river Ibar represent a relatively large core of ophiolithic flora in the Central Balkans. It is the centre of distribution of old trans-regional endemics such as: *Halacsya sendtneri*, *Haplophyllum boisserianum*, *Potentilla visianii* and *Eryngium serbicum*. Local endemics include *Tulipa serbica* (Stevanović et al., 2003).

Out of the total taxon number in the investigated area, 73 (8.27%) belong to group of endemic, sub-endemic, relict and endomorelic taxa. There are 40 of endemic and sub-endemic species (*Eryngium serbicum*, *Helleborus multifidus* subsp. *serbicus*, *Tulipa serbica*, *Odontarrhena bertolonii* subsp. *scutarina* (syn. *Alyssum janchenii*), *Alyssum markgrafii*, *Galatella albanica*, *Dianthus pinifolius*, *Euphorbia glabriflora*, *Fumana bonapartei*, *Halacsya sendtneri*, *Haplophyllum boissierianum*, *Hieracium bauhini* subsp. *pseudosparsum*, *Hypericum rumeliacum*, *Lamium bifidum* subsp. *balcanicum*, *Potentilla visianii*, *Ranunculus psilostachys*, *Scabiosa fumaroides*, *Scrophularia canina* subsp. *tristis*, *Sedum album* (syn. *S. serpentini*), *Stachys scardica*, *Linum flavum*, *Trifolium trichopterum*, *Rorippa lippizensis*, *Salvia amplexicaulis*, *Digitalis laevigata*, *Melampyrum heracleoticum*, *Eryngium palmatum*, *Achillea coarctata*, *Alyssum montanum* subsp. *serbicum*, *Campanula lingulata*, *Cytisus austriacus* subsp. *heuffelii*, *Galium pseudoaristatum*, *Iris reichenbachii*, *Lamium garganicum* L. subsp. *garganicum*, *Lamium garganicum* L. subsp. *glabratum*, *Lathyrus hallersteinii*, *Petrorhagia illyrica* subsp. *haynaldiana*, *Poa perconcinna*, *Ranunculus serbicus*, *Rhinanthus rumelicus*, *Trifolium pignanii*).

Based on the distributional range of obligate serpentine endemics, Stevanović et al. (2003) presented the following general classification: (1) trans-Balkan or trans-regional Balkan endemics (taxa distributed in the greater part of serpentine areas in the Balkans); (2) regional endemics (taxa restricted to a single floristic subregion or province); and (3) local or steno-endemics (taxa distributed in a single floristic district or narrow geographical area such as a single mountain or island).

On the investigated terrains in the middle course of the Ibar river valley, 11 taxa from obligate serpentine endemics are in the trans-regional endemic (TRE) category: *Alyssum markgrafii*, *Sedum album* (syn. *S. serpentini*), *Potentilla visianii*, *Potentilla heptaphylla* subsp. *australis*, *Euphorbia glabriflora*, *Haplophyllum boissierianum*, *Fumana bonapartei*, *Eryngium serbicum*, *Halacsya sendtneri*, *Stachys recta* subsp. *baldacii* and *Scrophularia canina* subsp. *tristis*.

4 taxa are obligate serpentine endemics from the regional endemics (RE) category: *Helleborus multifidus* subsp. *serbicus*, *Alyssum montanum* subsp. *serbicum*, *Galatella albanica* and *Tulipa serbica* (stenoendemic according to Millaku et al., 2018). It was right here, on the Ibar Valley serpentine, Beli Laz locality (locus classicus), that this endemic *Tulipa* was identified (Tatić and Krivošej, 1997). Unfortunately, in the last three years, due to the regional dumping site development, the primary habitat has been devastated, without any possibility to be protected.

Out of the total taxon number, 31 taxa belong to a group of internationally significant vascular plants (IUCN, Stojanović et al., 2015). Out of that, 14 taxa have been protected by CITES Convention. These are the followings: *Anacamptis pyramidalis*, *Cephalanthera rubra*, *Epipactis helleborine*, *Epipactis microphylla*, *Galanthus nivalis*, *Limodorum abortivum*, *Neottia nidus-avis*, *Orchis mascula*, *Orchis morio*, *Orchis papilionaceae*, *Orchis purpurea*, *Orchis tridentata*, *Ophrys apifera* and *Platanthera bifolia*.

### **Comparative floristic analysis**

In order to gain a better insight into the flora diversity in these habitats, as well as the level of floristic closeness, a comparative analysis of the flora from Studena mountain, near the city of Kraljevo, has been done by Tatić (1969) in his multi-year research as well as with flora of Goleš mountain, researched by Krasniqi et al. (2019).

The Ibar serpentine massive with the valley in the lower course of the Ibar river traverses through central Serbia and extends west from the mountain Studena (Lukić et al., 2015) where it covers the largest space on Studena mountain; the river itself flows 17.1 km along the mountain. In his studies Tatić reported 390 taxa, the largest number of which belonged to *Compositae*, *Poaceae*, *Leguminosae*, *Caryophyllaceae*, *Rosaceae* and *Lamiaceae* families, which is similar to the spectrum of the most numerous families of flora in the Kosovo part of the Ibar serpentine range. The number of two mutual taxa in two compared areas is 196, so the index of similarity by Sørensen is 30.66%, which is unexpectedly low since Studena mountain represents the continuation of the Ibar serpentine massive that starts in the middle course of the river in Kosovo.

An assumption of floristic dissimilarities in the Kosovo part of the Ibar valley and Studena mountain, has been based on the differences between the altitudes of these two areas (the Ibar gorge 500-900 m, Studena mountain above 1000 m, with the highest peak of Kavgalija 1356). Furthermore, the composition of the geological background has probably influenced floral development. The geological background of Studena mountain exclusively consists of serpentinite; in the Kosovo part of the Ibar valley apart from serpentinite, there are also peridotite and unmodified ultramafic rocks. While Tatić emphasized phytocenologic research studies on Studena mountain, our attention was turned to purely floristic research projects in the Kosovo's part of the Ibar valley (which may be corroborated by a total number of 882 identified taxa), taking also into account the size of the investigated area. Since the serpentine is considered as a vulnerable habitat, it is important to emphasize that no Studena mountain species recorded by Tatić has been classified as extinct in Serbian flora. Our assumption is that the described species can be found there nowadays, but we also recommend future field research to prove this assumption.

Mountain Goleš, in the central part of Kosovo and Metohija, represents the beginning of the serpentine-peridotite massif, which covers the left bank of the Sitnica river, goes towards the Čičavica Mountain, enters the valley of the upper stream of the Ibar river in Ibarski Kolašin, and continues along the middle Ibar river course. Krasniqi et al. (2019) recorded 295 taxa on this mountain (with a surface area of 22.2 km<sup>2</sup>) over a three-year study (2015-2019). Considering the size of the mountain range covered by the conducted survey, a larger number of taxa would be expected. However, such floristic "poverty" confirmed the fact that serpentinite habitats are floristically poorer than habitats with other types of geological substrates. The number of two mutual taxa in the two compared areas is 218, so the index of similarity by Sørensen is 37.04%. It should be noted that this value is not large, although the number of common species is as high as 2/3 of all taxa found on Goleš Mountain. The reason could certainly be a disproportion to the number of identified species and the size of territories explored.

Families with the highest number of taxa on Goleš mountain were *Compositae* (34), *Leguminosae* (25), *Rosaceae* (25), *Poaceae* (18), and *Caryophyllaceae* (18). In taxonomic spectrum in the Ibar river valley, *Compositae* (105) and *Leguminosae* (86) are also dominant, followed with *Poaceae* (66), *Lamiaceae* (51), *Brassicaceae* (50), *Caryophyllaceae* (49). *Rosaceae* family in taxonomic spectrum of most dominant plant families in the Ibar river valley occupies eight position. Significant involvement of the *Lamiaceae* and *Caryophyllaceae* families indicate the expression of stronger Mediterranean floristic influences, as well as a greater presence of bare rocky habitats.

Krasniqi et al. (2019) on Goleš Mountain state that out of the total number of identified taxa, 8 of them are endemic, of which 5 endemic species occur on the Ibar

valley serpentinite (*Galatella albanica*, *Halacsya sendtneri*, *Linum flavum*, *Potentilla visianii* and *Haplophyllum boissierianum*). Various floristic elements meet and overlap in mountain ranges in the central part of Kosovo, dominated by European floral element, followed by Euro-Asiatic and Sub-Mediterranean, Balcan, Mediterranean and Pontic elements similar to the interim holarctic- Mediterranean character of flora in the Ibar river valley.

Due to the background characteristics, the serpentine areas of the Ibar valley and their flora have not been exposed to negative anthropogenic influences so far. Yet, in the previous 3-4 years, the negative human influences have been detected in the areas along the highway. We consider that establishing a better connection between scientific and professional public and the people who are in charge of planning and infrastructural construction along the Ibar valley could contribute to the preservation of the habitats of some significant and endangered species, which unfortunately was not the case with locus classicus of the *Tulipa serbica* species.

## Conclusion

The presence of 882 taxa grouped into 83 families and 386 genera has been identified in the course of the research of serpentinite flora performed in the middle stream Ibar river valley, for the period of 16 years. Taxonomic spectrum of families is dominated by *Compositae* (105), followed by *Leguminosae* (86), *Poaceae* (66), *Lamiaceae* (51), *Brassicaceae* (50), *Caryophyllaceae* (49), *Apiaceae* (43) etc. The greatest number of genera belong to families *Compositae* (51), followed by *Poaceae* (38), *Apiaceae* (26), *Brassicaceae* (24), *Leguminosae* (24), *Lamiaceae* (22). Among the genera the most species rich are *Trifolium* (17) followed by *Carex* (16), *Euphorbia* (14), *Veronica* (14), *Vicia* (13), *Lathyrus* (12), *Hieracium* (11), *Centaurea* (8), *Medicago* (8), *Rosa* (7) etc. An analysis of life forms showed that the investigated area has hemicryptophyte characters, with significant participation of therophytes (21.99%). The chorological spectrum is dominated by Holarctic species (41.83%). The presence of 73 taxa from a group of endemic, sub-endemic, relict and endomorelic taxa was determined. Out of the total taxon number, 31 taxa belong to a group of internationally significant vascular plants. Out of that, 14 taxa have been protected by CITES Convention. A comparative analysis of the serpentinite flora in the Ibar river valley and the Studena mountain as well as in the Goleš mountain showed a relatively small floristic similarity, which was unexpected, since these two mountains represent the beginning and continuation of the Ibar serpentine massive that starts in the middle course of the river in Kosovo. Only a good knowledge of floristic diversity may initiate the procedures that may lead to preserving and protecting rare and endangered and internationally important species in these areas. Since serpentinite habitat is considered as vulnerable we are proposing continual habitat monitoring as well as monitoring of all endangered and rare species in the Ibar river valley in future research projects. For some species seed collecting for a seed bank could be one of the conservation measures.

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