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INVERTEBRATES (INVERTEBRATA)  
OF THE FRUŠKA GORA MOUNTAIN

БЕСКИЧМЕЊАЦИ (INVERTEBRATA)  
ФРУШКЕ ГОРЕ

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## PRELIMINARY NOTES ON SPIDER FAUNA OF MT. FRUŠKA GORA

**ABSTRACT:** Present records of spider fauna of Fruška Gora comprise 121 species from 90 genera and 28 families. This paper contributed with 24 species new to the fauna of this region. Out of these, two species also represent new findings for spider fauna of Serbia.

**KEYWORDS:** spiders, taxonomy, Fruška Gora, Serbia

Current research and literature data characterized the spider fauna of Fruška Gora by 121 species belonging to 90 genera and 28 families. First papers, which considered some of the localities on Fruška Gora, were published at the end of the 19th century by Chyzer & Kulczyński (1897). Sisojević and Miller reported 78 spider species from 53 genera and 16 families in 1978, as a result of faunistic research in Fruška Gora. The recent monograph of the spider fauna of Serbia provides synonyms for some of the taxa from this locality (Deltshev et al., 2003).

It should be mentioned that the number of spider species, considering structure of available juvenile material only (specimens from families Lycosidae and Pholcidae), is probably higher. Ongoing research of this region will definitely provide such additional information.

Analyses of material collected during 2004 and 2005 at the localities Popovica (leg. G. Grbić, D. Stojanović), Glavica (leg. G. Grbić), Ležimir and Stražilovo (leg. D. Stojanović), apart from already known species, revealed 24 species new to spider fauna of Fruška Gora. It is important to note that among identified species, *Oecobius maculatus* (Simon, 1870) and *Diaea pictiliñ* (Bank, 1896) also represent new records for spider fauna of Serbia.

Families with highest number of species were Linyphiidae, Araneidae and Thomisidae. Within chorological complexes, best represented were wi-

dely distributed European species, while endemic taxa were not registered.

Considering the total number of recorded spider species in Serbia (until present date approximately 620), it can be concluded that the spider fauna of Fruška Gora is represented by a rather large number of taxons. However, exact character of this fauna remains to be discovered after intensive faunistical research, not only in this region, but also in whole Serbia.

Table 1. List of spider species in Fruška Gora  
Табела 1. Списак врста паукова на Фрушкој гори

Species	Locality	Distribution
<b>ATYPIDAE</b>		
<i>Atypus piceus</i> (Sulzer, 1776)	Stražilovo (present study)	ETU
<b>NEMESIDAE</b>		
<i>Nemesia pannonica</i> Herman, 1879	Glavica (present study)	EEU
<b>SCYTODIDAE</b>		
<i>Scytodes thoracica</i> (Latreille, 1802)	Popovica (present study)	HOL
<b>SEGESTRIDAE</b>		
<i>Segestria bavarica</i> C.L. Koch, 1843	Iriški venac (Sisojević i Miller, 1978)	EUR
<b>DYSDERIDAE</b>		
<i>Dysdera longirostris</i> Dobljka, 1853	Vrdnik (Chyzer&Kulczynski, 1897)	EEU
<i>Harpactea hombergi</i> (Scopoli, 1763)	Iriški venac (Sisojević i Miller, 1978)	EUR
<i>Harpactea saeva</i> (Herman, 1879)	Popovica (present study)	EEU
<b>MIMETIDAE</b>		
<i>Ero aphana</i> (Walckenaer, 1802)	Popovica (present study)	PAL
<b>OECOBIIDAE</b>		
<i>Oecobius maculatus</i> Simon, 1870	Popovica (present study)	HOL
<b>ULOBORIDAE</b>		
<i>Uloborus walckenaerius</i> Latreille, 1806	Vrdnik (Chyzer&Kulczynski, 1897)	PAL
<b>THERIDIIDAE</b>		
<i>Achaearanea lunata</i> (Clerck, 1757)	Iriški venac (Sisojević i Miller, 1978)	PAL
<i>Dipoena melanogaster</i> (C.L. Koch, 1837)	Vrdnik (Chyzer&Kulczynski, 1897)	WPA
<i>Enoplognatha ovata</i> (Clerck, 1757)	Iriški venac (Sisojević i Miller, 1978)	HOL
<i>Enoplognatha thoracica</i> (Hahn, 1833)	Vrdnik (Chyzer&Kulczynski, 1897)	HOL
<i>Episinus angulatus</i> (Blackwall, 1836)	Iriški Venac (Sisojević i Miller, 1978)	EUR
<i>Theridion melanurum</i> Hahn, 1831	Iriški Venac (Sisojević i Miller, 1978)	HOL
<i>Theridion mystaceum</i> L. Koch, 1870	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Theridion pinastri</i> L. Koch, 1872	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Theridion tinctum</i> (Walckenaer, 1802)	Vrdnik (Chyzer&Kulczynski, 1897)	HOL
<i>Theridion varians</i> Hahn, 1833	Vrdnik (Chyzer&Kulczynski, 1897)	HOL
<b>LINYPHIIDAE</b>		
<i>Abacoprocetes saltuum</i> (L. Koch, 1872)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Dismodicus elevatus</i> (C.L. Koch, 1838)	Vrdnik (Chyzer&Kulczynski, 1897)	PAL
<i>Drapetisca socialis</i> (Sundevall, 1833)	Iriški Venac (Sisojević i Miller, 1978)	HOL

Species	Locality	Distribution
<i>Entelecara acuminata</i> (Wider, 1834)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Frontinellina frutetorum</i> (C.L. Koch, 1834)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Linyphia hortensis</i> Sundevall, 1830	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Linyphia triangularis</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Meioneta fuscipalpa</i> (C.L. Koch, 1836)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Nerienne peltata</i> (Wider, 1834)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Pelecopsis elongata</i> (Wider, 1834)	Iriški Venac (Sisojević i Miller, 1978)	EUR
<i>Porrhomma microphthalmum</i> (O.P. Cambridge, 1871)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Tenuiphantes flavipes</i> (Blackwall, 1854)	Vrdnik (Chyzer&Kulczynski, 1897)	PAL
<i>Tenuiphantes tenuis</i> (Blackwall, 1852)	Vrdnik (Chyzer&Kulczynski, 1897)	WPA
<i>Trichoncoides piscator</i> (Simon, 1884)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Trichoncus affinis</i> Kulczyński, 1894	Vrdnik (Chyzer&Kulczynski, 1897)	PAL
<b>TETRAGNATHIDAE</b>		
<i>Metellina segmentata</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller, 1978)	HOL
<i>Tetragnatha nigrita</i> Lendl, 1886	Vrdnik (Chyzer&Kulczynski, 1897)	PAL
<b>ARANEIDAE</b>		
<i>Araneus diadematus</i> Clerck, 1757	Iriški Venac (Sisojević i Miller, 1978)	HOL
<i>Araneus angulatus</i> Clerck, 1757	Popovica (present study)	PAL
<i>Araniella cucurbitina</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Araniella displicata</i> (Hentz, 1847)	Iriški Venac (Sisojević i Miller, 1978)	HOL
<i>Araniella inconspicua</i> (Simon, 1874)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Argiope bruennichi</i> (Scopoli, 1772)	Popovica, Ležimir (present study)	PAL
<i>Argiope lobata</i> (Pallas, 1772)	Vrdnik (Chyzer&Kulczynski, 1897)	OLW
<i>Cyclosa conica</i> (Pallas, 1772)	Iriški Venac (Sisojević i Miller, 1978)	HOL
<i>Gibbaranea bituberculata</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Larinioides patagiatus</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller, 1978)	HOL
<i>Mangora acalypha</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Nuctenea umbratica</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller, 1978)	EUR
<i>Zygiella stroemi</i> (Thorell, 1870)	Vrdnik (Chyzer&Kulczynski, 1897)	PAL
<i>Cercidia prominens</i> (Westring, 1851)	Popovica (present study)	HOL
<i>Hyposiga sanguinea</i> (L.C. Koch, 1844)	Popovica (present study)	PAL
<b>LYCOSIDAE</b>		
<i>Pardosa lugubris</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller, 1978)	PAL
<i>Trochosa terricola</i> Thorell, 1856	Glavica (present study)	HOL
<i>Pirata piraticus</i> (Clerck, 1757)	Popovica (present study)	HOL
<i>Arctosa cinerea</i> (Fabricius, 1777)	Popovica (present study)	PAL
<b>PISAURIDAE</b>		
<i>Pisaura mirabilis</i> (Clerck, 1757)	Popovica (present study)	PAL
<b>AGELENIDAE</b>		
<i>Agelena gracilens</i> C.L. Koch, 1841	Iriški Venac (Sisojević i Miller, 1978)	MCA
<i>Histopona torpida</i> (C.L. Koch, 1837)	Vrdnik (Chyzer&Kulczynski, 1897)	EUR

Species	Locality	Distribution
<i>Tegenaria campestris</i> C.L. Koch, 1834	Iriški Venac (Sisojević i Miller,1978)	EUR
<b>DICTYNIDAE</b>		
<i>Dictyna latens</i> (Fabricius, 1775)	Vrdnik (Chyzer&Kulczynski,1897)	ECA
<i>Lathys humilis</i> (Blackwall, 1855)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Nigma flavescens</i> (Walckenaer, 1830)	Iriški Venac (Sisojević i Miller,1978)	PAL
<b>AMAUROBIIDAE</b>		
<i>Coelotes longispina</i> (Kulczynski, 1897)	Popovica,Glavica (present study)	EEU
<i>Coelotes inermis</i> (L.Koch, 1855)	Popovica (present study)	EUR
<b>MITURGIDAE</b>		
<i>Cheiracanthium elegans</i> Thorell, 1875	Iriški Venac (Sisojević i Miller,1978)	ECA
<i>Cheiracanthium punctorium</i> (Villers, 1789)	Popovica (present study)	PAL
<b>ANYPHAELIDAE</b>		
<i>Anyphaena accentuata</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	ECA
<b>LIOCRANIDAE</b>		
<i>Agroeca brunnea</i> (Blackwall, 1833)	Iriški Venac (Sisojević i Miller,1978)	EUS
<i>Liocranum rupicola</i> (Walckenaer, 1830)	Iriški Venac (Sisojević i Miller,1978)	EUR
<i>Liocranum rutilans</i> (Thorell, 1875)	Iriški Venac (Sisojević i Miller,1978)	EUR
<b>CLUBIONIDAE</b>		
<i>Clubiona caerulescens</i> L. Koch, 1867	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Clubiona comta</i> C.L. Koch, 1839	Iriški Venac (Sisojević i Miller,1978)	WPA
<i>Clubiona lutescens</i> Westring, 1851	Iriški Venac (Sisojević i Miller,1978)	HOL
<i>Clubiona marmorata</i> L. Koch, 1866	Iriški Venac (Sisojević i Miller,1978)	EUR
<i>Clubiona terrestris</i> Westring, 1851	Iriški Venac (Sisojević i Miller,1978)	EUR
<b>ZODARIIDAE</b>		
<i>Zodarion germanicum</i> (C.L. Koch, 1837)	Vrdnik (Chyzer&Kulczynski,1897)	EUR
<b>GNAPHOSIDAE</b>		
<i>Aphantaulax cincta</i> (L. Koch, 1866)	Vrdnik (Chyzer&Kulczynski,1897)	WPA
<i>Aphantaulax seminigra</i> Simon, 1878	Vrdnik (Chyzer&Kulczynski,1897)	PAL
<i>Drassodes lapidosus</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Echenus angustifrons</i> (Westring, 1861)	Iriški Venac (Sisojević i Miller,1978)	ECA
<i>Haplodrassus silvestris</i> (Blackwall, 1833)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Micaria formicaria</i> (Sundevall, 1831)	Vrdnik (Chyzer&Kulczynski,1897)	PAL
<i>Nomisia exornata</i> (C.L. Koch, 1839)	Vrdnik (Chyzer&Kulczynski,1897)	ECA
<i>Phaeoecelus braccatus</i> (L. Koch, 1866)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Scotophaeus blackwalli</i> (Thorell, 1871)	Iriški Venac (Sisojević i Miller,1978)	COS
<i>Scotophaeus scutulatus</i> (L. Koch, 1866)	Iriški Venac (Sisojević i Miller,1978)	WPA
<i>Zelotes subterraneus</i> (C.L. Koch, 1833)	Iriški Venac (Sisojević i Miller,1978)	PAL
<b>ZORIDAE</b>		
<i>Zora nemoralis</i> (Blackwall, 1861)	Iriški Venac (Sisojević i Miller,1978)	PAL
<b>SPARASSIDAE</b>		
<i>Micrommata virescens</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller,1978)	PAL

Species	Locality	Distribution
<b>PHILODROMIDAE</b>		
<i>Philodromus aureolus</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Philodromus dispar</i> Walckenaer, 1826	Iriški Venac (Sisojević i Miller,1978)	HOL
<i>Philodromus emarginatus</i> (Schrank, 1803)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Philodromus rufus</i> Walckenaer, 1826	Iriški Venac (Sisojević i Miller,1978)	HOL
<i>Thanatus sabulosus</i> (Menge, 1875)	Vrdnik (Chyzer&Kulczynski,1897)	PAL
<i>Tibellus oblongus</i> (Walckenaer, 1802)	Popovica (present study)	HOL
<b>THOMISIDAE</b>		
<i>Diaea dorsata</i> (Fabricius, 1777)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Diaea pictilis</i> (Banks, 1896)	Popovica (present study)	
<i>Misumena vatia</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller,1978)	HOL
<i>Ozyptila blackwalli</i> Simon, 1875	Fruška Gora (Deltshev et al.2003)	PAL
<i>Pistius truncatus</i> (Pallas, 1772)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Runcinia grammica</i> (C.L. Koch, 1837)	Vrdnik (Chyzer&Kulczynski,1897)	PAT
<i>Tmarus piger</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Tmarus stellio</i> Simon, 1875	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Xysticus bifasciatus</i> C.L. Koch, 1837	Vrdnik (Chyzer&Kulczynski,1897)	PAL
<i>Xysticus embriki</i> Kolosváry, 1935	Iriški Venac (Sisojević i Miller,1978)	ECA
<i>Xysticus lanio</i> C.L. Koch, 1835	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Xysticus luctator</i> L. Koch, 1870	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Xysticus ninnii</i> Thorell, 1872	Vrdnik (Chyzer&Kulczynski,1897)	PAL
<i>Synaema globosum</i> (Fabricius, 1775)	Popovica (present study)	PAL
<i>Misumenops tricuspidatus</i> (Fabricius, 1775)	Popovica (present study)	PAL
<i>Thomisus onustus</i> Walckenaer, 1805	Popovica (present study)	PAL
<b>SALTICIDAE</b>		
<i>Ballus chalybeius</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	WPA
<i>Heliophanus cupreus</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Macaroeis nidicolens</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	ETU
<i>Marpissa muscosa</i> (Clerck, 1757)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Pseudeuophrys erratica</i> (Walckenaer, 1826)	Iriški Venac (Sisojević i Miller,1978)	HOL
<i>Pseudicius encarpatus</i> (Walckenaer, 1802)	Iriški Venac (Sisojević i Miller,1978)	ETU
<i>Salticus mutabilis</i> Lucas, 1846	Fruška Gora (Nikolić i Polenec,1891)	SCO
<i>Salticus zebraneus</i> (C.L. Koch, 1837)	Iriški Venac (Sisojević i Miller,1978)	PAL
<i>Evarcha arcuata</i> (Clerck, 1757)	Popovica (present study)	PAL

\* Abbreviations for species distribution: COS – Cosmopolitan, SCO – Subcosmopolitan, HOL – Holarctic, PAT – Plearcto-Afrotropic, PAL – Palearctic, WPA – West Palearctic, EUS – Europeo-Siberian, ECA – Europeo-Central Asiatic, MCA – Mediterraneo-Central Asiatic, ETU – Europeo-Turanian, EUR – European, EEU – East European.

\* Skраћенице за распрострањене vrste: COS – космополитско, SCO – субкосмополитско, HOL – Холарктичко, PAT – Палеоаркто-Афротропско, PAL – Палеаркти-

чко, WPA – Западно Палеарктичко, EUS – Европско-Сибирско, ECA – Европско-Централно Азијско, MCA – Медитеранско-Централно Азијско, ETU – Европско-Туранско, EUR – Европско, EEU – Источно Европско распрострањење.

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