

Fungus gnats (Diptera: Sciaroidea) of the Gemer region (Central Slovakia): Part 3 – Sciaridae

Hans-Georg Rudzinski & Jan Ševčík

Fungus gnats (Diptera: Sciaroidea) of the Gemer region (Central Slovakia): Part 3 – Sciaridae. – Čas. Slez. Muz. Opava (A), 61: 143-157, 2012.

A b s t r a c t: A total of 131 species of Sciaridae are recorded from the Gemer region in central Slovakia. The material was obtained in the years 2008–2012 by means of Malaise traps and by individual collecting by the junior author. Fifty-one species are recorded as new to Slovakia including 4 undescribed species, which will be treated in separate publications.

K e y w o r d s: Insecta, Diptera, Sciaridae, black fungus gnats, new records, faunistics, Muránska planina, Slovakia, Europe

Introduction

Black fungus gnats (Diptera: Sciaridae) constitute a species-rich group of mostly small flies with uniform appearance. Some 700 described species are known from Europe (Heller & Menzel 2009) and more than 2200 species in the World (Pape et al. 2009). In the recent checklist, 135 species of Sciaridae were reported from Slovakia and 262 species from the Czech and Slovak Republics together (Heller & Menzel 2009).

In the first two contributions to the knowledge of the Sciaroidea of the Gemer region, five families were treated (Bolitophilidae, Diadocidiidae, Ditomyiidae, Keroplatidae and Mycetophilidae), including photographs of study localities and description of collecting methods (see Ševčík & Kurina 2011a,b).

The family Sciaridae had not been systematically studied in the Gemer region up to 2008, when the All Taxa Biological Inventories (ATBI, see www.atbi.eu/gemer/) project started. Only Košel (1991) published two species from caves in the Slovenský raj and Slovenský kras National Parks.

A total of 131 species of Sciaridae have been discovered in the Gemer region up to the present, including 47 species recorded here as new to Slovakia and four additional species, which will be described as new to science in separate publications.

Material and methods

The list of species below is based mainly on the material collected recently (2008 – 2011) by the authors in the Gemer region (considered here to cover the territory of three national parks in central Slovakia – Muránska planina, Slovenský raj and Slovenský kras) by means of Malaise traps and sweep netting, identified by the authors and now deposited in JSOC and SMOC (material collected by JŠ). In the species list, the collecting method is indicated only for Malaise traps (as MT), otherwise the material was collected by sweeping. Most of the material presented in this paper was collected in the frame of the All Taxa Biodiversity Inventories project (ATBI, see www.atbi.eu) organized by Workpackage 7 (WP7) of the “European Distributed Institute of Taxonomy” (EDIT, see www.e-taxonomy.eu). For further details about methods and photographs of localities see Ševčík & Kurina (2011a).

During the year 2012, two additional Malaise traps were operated in the area (Figs. 1 and 2). The first trap was installed in the Šiance reserve, at the edge of the top plateau, representing the ecotone between natural beech forest and a rocky limestone slope with xerothermophilous plant communities. The second trap was placed in an alder forest with adjacent spruce-beech forests along the Lehotský potok brook.

Three species were reared from grass tussocks in 2012. The method of rearing is briefly described in Ševčík & Roháček (2008).

The nomenclature and systematics used here are mainly based on the revision by Menzel & Mohrig (2000). Concerning the generic rank of *Dolichosciara*, *Prosciara*, *Peyrimhoffia* and *Mouffetina* we follow the opinions by Vilkamaa & Hippa (1996, 2005) and Vilkamaa (2003a, 2003b).

Abbreviations: * = new records for Slovakia; JR = Jindřich Roháček leg., NP = National Park, NPR = National Nature Reserve, m = male, f = female, JŠ = Jan Ševčík leg., MT = Malaise trap, JSOC = Jan Ševčík, Ostrava (personal collection), SMOG = Slezské zemské muzeum, Opava, Czech Republic.

Survey of species

SCIARIDAE

***Bradysia alpicola* (Winnertz, 1867)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ).

This species was reported from Slovakia in the checklist (Heller & Menzel 2009) but no precise locality has been published. A confirmation of recent occurrence in Slovakia.

****B. arcana* Menzel & Mohrig, 1998**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

A rare European species, known from several European countries. This is the first record from Slovakia.

***B. bicolor* (Meigen, 1818)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ).

****B. brevispina* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

A rather rare European species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***B. cinerascens* (Grzegorzek, 1884)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 4 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

****B. drakenbergensis* Hövemeyer, 1989**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

A rather rare European species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****B. fenestralis* (Zetterstedt, 1838)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A very rare European species, known only from Germany and Sweden. This is the first record from Slovakia.

***B. forficulata* (Bezzi, 1914)**

Published records: NP Slovenský raj: Caves Kláštorňa and Medvedia nr. Hrabušice, Čertova nr. Spišské Tomášovce, Psie Diery, Vojenská, Vlčie diery and Na skale nr. Stratená; NP Slovenský kras: Caves Ardovská nr. Ardovo, Hačavská nr. Hačava, Domicia and Chasm Veľká sovia (all Košel 2001).

Material examined: NP Slovenský kras: Zádielská tiesňava, 25.ix.2008, 1 m (JŠ).

A cave-dwelling species, recorded from many caves as new to Slovakia by Košel (2001).

***B. fungicola* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 2 m, MT (JŠ), NPR Poludnica, Suchý dol, 13.vii.–8.ix. 2011, 1 m, MT (JŠ), Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ); NP Slovenský kras: Zádielská tiesňava NPR, 5.ix.2008, 2 m (JŠ); NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m (JŠ).

***B. giraudii* (Egger, 1862)**

Material examined: NP Muránska planina, Muránska Lehota, 22.vi.–25.vii.2012, 3 m, MT (JR & JŠ).

***B. hilariformis* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 13.vii.–8.ix. 2011, 9 m, MT (JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 2 m, MT (JR & JŠ).



Figs 1–2: Malaise traps installed in NP Muránska planina in 2012. 1 – Šiance; 2 – Muránska Lehota. Photos by J. Ševčík.

***B. hilaris* (Winnertz, 1867)**

Material examined: NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 2 m; NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (all JŠ), Muránska Lehota, 24.v. –22.vi.2012, 1 m, 22.vi.–25.vii.2012, 3 m, MT (JR & JŠ).

****B. lobulifera* Frey, 1948**

Material examined: NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m; NP Muránska planina, Závadka nad Hronom, Dolina Hronca, 24.vi.2012, 2 m (all JŠ).

A rare European species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****B. longispina* Mohrig & Mamaev, 1989**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT; NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m (all JŠ).

A rare species, hitherto known only from the Ukraine, Germany and Greece. This is the first record from Slovakia.

***B. nervosa* (Meigen, 1818)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 2 m, MT (JR & JŠ).

****B. nigrispina* Menzel, 2006**

Material examined: NP Muránska planina, Javorinka saddle, 950 m, clearing in forest, 25.vi.2012, 2 m, reared from *Festuca pratensis* (JR, sample B55).

A species recently described from British Isles and the Czech Republic (Menzel et al. 2006). The holotype comes from the Velká Kotlina glacial cirque in the Hrubý Jeseník Mts. (eastern Czech Republic). This is the first record from Slovakia and also the first record of its biology.

***B. nitidicollis* (Meigen, 1818)**

Material examined: NP Muránska planina, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (JŠ), Muránska Lehota, 24.v. –22.vi.2012, 2 m, MT (JR & JŠ).

****B. nocturna* Tuomikoski, 1960**

Material examined: NP Muránska planina, Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

A rather common species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***B. pectoralis* (Staeger, 1840)**

Material examined: NP Muránska planina, NPR Hrdzavá, 3.ix.2008, 1 m, 26.vii.–7.x.2010, 5 m, MT, Muránska Lehota, 12.iv.–24.v.2012, 1 m, 24.v. –22.vi.2012, 3 m, MT (JR & JŠ), NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 5 m, MT; NP Slovenský kras: NPR Zádielská tiesnava, 5.ix.2008, 1 m (all JŠ).

***B. placida* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Hrdzavá, 26.vii.–7.x.2010, 3 m, MT, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 1 m, MT (JŠ).

****B. pseudohilaris* Mohrig & Krivosheina, 1983**

Material examined: NP Muránska planina, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (JŠ), Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ).

A rare species, hitherto known only from Austria and Switzerland. This is the first record from Slovakia.

***B. regularis* (Lengersdorf, 1934)**

Material examined: NP Muránska planina, NPR Hrdzavá, 26.vii.–7.x.2010, 2 m, MT (JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***B. scabricornis* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

****B. strenua* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rather common European species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****B. trivittata* (Staeger, 1840)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rather common European species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****Bradysia* sp.**

Material examined: NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m (JŠ).

This is an undescribed species from the *Bradysia praecox*-group.

****Bradysiopsis vittata* (Meigen, 1830)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, MT (JR & JŠ).

A rather rare European species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****Camptochaeta fallax* Hippa & Vilkamaa, 1994**

Material examined: NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m (JŠ).

A rare species, hitherto known only from Germany, Norway and Sweden. This is the first record from Slovakia.

***C. ofenkaulis* (Lengersdorf, 1925)**

Published records: NP Slovenský raj: Caves Medvedia nr. Hrabušice and Čertova nr. Spišské Tomášovce (Košel 2001).

Material examined: NP Muránska planina, NPR Hrdzavá, 3.ix.2008, 1 m (JŠ).

This species was recorded as new to Slovakia by Košel (2001).

***Claustropyga ctenophora* Hippa, Vilkamaa & Mohrig, 2003**

Material examined: NP Muránska planina, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (JŠ).

****Corynoptera acerrima* Mohrig & Dimitrova, 1992**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

Only the holotype from Bulgaria has been known up to the present. This is the first record from Slovakia, as well as from Central Europe.

***C. bistrispina* (Bukowski & Lengersdorf, 1936)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

Recorded from Poľana Mts. as new to Slovakia by Rudzinski (2009). This is the second record from Slovakia.

***C. blanda* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 3 m, MT (JŠ).

***C. blandaformis* Rudzinski, 2006**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 2 m, MT (JŠ).

A species recently described from Germany (Allgäu), Czech Republic (Jizerské hory Mts., overlooked by Ševčík & Vonička 2008) and Slovakia (Belianske Tatry Mts.), see Rudzinski (2006). This is the second record from Slovakia.

***C. commoda* Rudzinski, 2006**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

****C. cuniculata* (Lengersdorf, 1942)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****C. dentata* (Bukowski & Lengersdorf, 1936)**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 1 m, MT (JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***C. flavicauda* (Zetterstedt, 1855)**

Material examined: NP Muránska planina, Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ).

***C. forcipata* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Hrdzavá, 3.ix.2008, 4 m, 28.vi.–26.vii.2010, 2 m, 26.vii.–7.x.2010, 7 m, MT; Muránska Lehota, 12.iv.–24.v.2012, 1 m, 24.v. –22.vi.2012, 9 m, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ), NPR Poludnica, Suchý dol, 13.vii.–8.ix. 2011, 2 m, MT, NPR Šiance, top plateau, 25.v.–24.vi.2012, 5 m, 24.vi.–26.vii.2012, 6 m, MT (JR & JŠ); NP Slovenský kras: NPR Zádielská tiesnava, 5.ix.2008, 3 m; NPR Drieňovec, 5.ix.2008, 4 m (all JŠ).

****C. furcata* (Hippa & Vilkamaa, 1994)**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 2 m, MT, Tisovec, along brook, 12.vii.2011, 1 m (all JŠ), Muránska Lehota, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries and also from the Nearctic Region. This is the first record from Slovakia, although it was erroneously listed from Slovakia by Heller & Menzel (2009).

***C. furcifera* Mohrig & Mamaev, 1987**

Material examined: NP Muránska planina, Tisovec, along brook, 12.vii.2011, 1 m (JŠ).

This species was omitted by Heller & Menzel (2009) but it had been recorded from Slovakia by Rudzinski (2009).

***C. grothae* Mohrig & Menzel, 1990**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 5 m, MT (JR & JŠ).

***C. irmgardis* (Lengersdorf, 1930)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, 22.vi.–25.vii.2012, 3 m, MT (JR & JŠ).

***C. membranigera* (Kieffer, 1903)**

Material examined: NP Muránska planina, Muránska Lehota, 22.vi.–25.vii.2012, 2 m, MT (JR & JŠ).

****C. obscuripila* Tuomikoski, 1960**

Material examined: NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m (JŠ).

A rather rare species, known from several European countries. This is the first record from Slovakia.

****C. praeparvula* Mohrig & Krivosheina, 1983**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 1 m, MT (JŠ).

A rather rare species, known from several European countries. This is the first record from Slovakia.

***C. saetistyla* Mohrig & Krivosheina, 1985**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ), Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 3 m, MT (JR & JŠ).

****C. sphenoptera* Tuomikoski, 1960**

Material examined: NP Muránska planina, Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ).

A rather common Holarctic species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****C. subfurcifera* Mohrig & Hövemeyer 1992**

Material examined: NP Muránska planina, Tisovec, along brook, 12.vii.2011, 1 m (JŠ), Muránska Lehota, 24.v. –22.vi.2012, 2 m, MT (JR & JŠ).

A recently recognized species, known from several European countries. This is the first record from Slovakia.

****C. subtilis* (Lengersdorf, 1929)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

A rather rare species, known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***C. tetrachaeta* Tuomikoski, 1960**

Material examined: NP Muránska planina, Muránska Lehota, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ).

***C. trepida* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT, NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 1 m, MT (both JŠ), Muránska Lehota, 24.v.–22.vi.2012, 2 m, 22.vi.–25.vii.2012, 2 m, MT (JR & JŠ).

A Holarctic species recorded from Slovakia (Jasná Valley) by Hippa et al. (2010).

***C. tridentata* Hondru, 1968**

Material examined: NP Muránska planina, Muránska Lehota, 25.vii.–5.ix.2012, 1 m, MT (JR & JŠ).

This species was for the first time recorded from Slovakia (Poľana Mts.) by Rudzinski (2009).

****C. winnertzi* Mohrig, 1993**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT, NPR Poludnica, Suchý dol, 31.v.–13.vii.2011, 1 m, 13.vii.–8.ix.2011, 1 m, MT (all JŠ).

A rather rare species, known from several European countries. This is the first record from Slovakia.

***Cratyna ambigua* (Lengersdorf, 1934)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

***C. atra* Winnertz, 1867**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ).

***C. colei* (Freeman, 1990)**

Material examined: NP Muránska planina, Javorinka saddle, 950 m, clearing in forest, reared from *Festuca pratensis*, 25.vi.2012, 1 m, MT (JR, sample B55).

This species was for the first time recorded from Slovakia (Poľana Mts.) by Rudzinski (2009).

****C. falcata* (Tuomikoski, 1960)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT, NPR Hrdzavá, 3.ix.2008, 1 m, NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 1 m, MT (all JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 3 m, MT (JR & JŠ).

A rather common species, which is known from several European countries. This is the first record from Slovakia.

***C. falcifera* (Lengersdorf, 1933)**

Material examined: NP Muránska planina, Muránska Lehota, 24.v.–22.vi.2012, 1 m, MT (JR & JŠ).

***C. monumenta* Rudzinski, 2009**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v.–13.vii.2011, 1 m, MT (JŠ), Muránska Lehota, 24.v.–22.vi.2012, 4 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A recently described species from the neighbouring Poľana Mts. (Rudzinski 2009, Rudzinski & Ševčík 2009). It is apparently widely distributed in central Slovakia. This is the second record from Slovakia and the first record after the description.

***C. nobilis* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v.–13.vii.2011, 1 m, MT (JŠ).

***Ctenosciara hyalipennis* (Meigen, 1804)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ), Muránska Lehota, 12.iv.–24.v.2012, 7 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ); NP Slovenský kras: NPR Zádielská tiesnava, 5.ix.2008, 1 m (JŠ).

***Dichopygina aculeata* Vilkamaa, Hippa & Komarova, 2004**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

****Diversicratyna salomonis* (Mohrig & Mamaev, 1985)**

Material examined: NP Muránska planina, Nižná Klaková, 4.ix.2012, 1 m (JŠ).

A very rare species, hitherto known only from Austria, Germany and Latvia. This is the first record from Slovakia.

***Dolichosciara flavipes* (Meigen, 1804)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ); NP Slovenský raj, NPR Stratená, 27.ix.2009, 1 m (JŠ).

***D. ornata* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT, NPR Hrdzavá, 28.vi.–26.vii.2010, 4 m, MT, NPR Poludnica, Suchý dol, 31.v.–13.vii.2011, 1 m, 13.vii.–8.ix.2011, 1 m, MT (all JŠ), Muránska Lehota, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ), Tisovec, along brook, 12.vii.2011, 1 m; Závadka n. H., Dolina Hronca, 24.vi.2012, 2 m; NP Slovenský kras: NPR Zádielská tiesnava, 5.ix.2008, 2 m; NPR Drieňovec, 5.ix.2008, 2 m (all JŠ).

***Epidapus alnicola* (Tuomikoski, 1957)**

Material examined: NP Muránska planina, Muránska Lehota, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ).

****E. absconditus* (Vimmer, 1926)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****E. bipalpatus* Mohrig, 1982**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 1 m, MT (JŠ).

A mainly southern European species. This is the first record from Slovakia.

***E. carpaticus* (Mohrig & Mamaev, 1985)**

Material examined: NP Muránska planina, Muránska Lehota, 24.v.–22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, MT (JR & JŠ).

***E. detriticola* (Kratochvíl, 1936)**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT, Muránska Lehota, 12.iv.–24.v.2012, 1 m, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ), NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 1 m, MT (all JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***E. gracilis* (Walker, 1848)**

Material examined: NP Muránska planina, Muránska Lehota, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ).

***E. microthorax* (Börner, 1903)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

****E. primulus* Rudzinski, 2000**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ), Tisovec, along brook, 12.vii.2011, 1 m (JŠ).

A species recently described from several localities in the Czech Republic (Rudzinski 2000). This is the first record from Slovakia.

****E. subgracilis* Menzel & Mohrig, 2006**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****Epidapus* sp.**

Material examined: NP Muránska planina, NPR Hrdzavá, 3.ix.2008, 1 m, NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 1 m, MT (all JŠ), Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ).

This is an undescribed species from the *Epidapus atomarius*-group.

****Eurysciara rostrata* Lengersdorf, 1927**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 3 m, 26.vii.–7.x.2010, 2 m (all MT), NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 2 m, 13.vii.–8.ix.2011, 1 m, MT (all JŠ).

A very interesting and surprising finding as this species has hitherto been known only from Taiwan. This is the first record of both species and genus from the Western Palaearctic Region.

****Leptosciarella cerifera* Mohrig & Menzel, 1997**

Material examined: NP Muránska planina, NPR Hrdzavá, 3.ix.2008, 1 m (JŠ).

A rare species known from several European countries, including the Czech Republic (Rudzinski 1998). This is the first record from Slovakia.

***L. dimera* (Tuomikoski, 1960)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

***L. fuscipalpa* (Mohrig & Mamaev, 1979)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 2 m, MT, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 1 m, MT (all JŠ), Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***L. melanoma* (Mohrig & Menzel, 1990)**

Material examined: NP Muránska planina, Muránska Lehota, 24.v. –22.vi.2012, 2 m, 22.vi.–25.vii.2012, 3 m, MT (JR & JŠ).

***L. pilosa* (Staeger, 1840)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ).

***L. rejecta* (Winnertz, 1867)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, MT (JR & JŠ).

***L. scutellata* (Staeger, 1840)**

Material examined: NP Muránska planina, Muránska Lehota, 24.v. –22.vi.2012, 2 m, MT (JR & JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 2 m, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ).

***L. subpilosa* (Edwards, 1925)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 2 m, 24.v. –22.vi.2012, 5 m, 22.vi.–25.vii.2012, 2 m, MT (JR & JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 2 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***L. subviatica* Mohrig & Menzel, 1997**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 1 m, MT (JŠ).

This species was for the first time recorded from Slovakia by Mohrig & Menzel (1997) and this is the second record.

***L. trochanterata* (Zetterstedt, 1851)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 3 m, 25.v.–24.vi.2012, 3 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

****Lycoriella inflata* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***L. ingenua* (Dufour, 1839)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

***L. lundstromi* (Frey, 1948)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

***L. micria* Mohrig & Menzel, 1990**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries, including both the Czech Republic and Slovakia.

****L. venosa* (Staeger, 1840)**

Material examined: NP Muránska planina, Nižná Klaková, 4.ix.2012, 5 m (JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***Mouffetina pulchricornis* (Edwards, 1925)**

Material examined: NP Muránska planina, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (JŠ).

***Peyerimhoffia vagabunda* (Winnertz, 1867)**

Material examined: NP Muránska planina, Muránska Lehota, 12.iv.–24.v.2012, 1 m, 24.v.–22.vi.2012, 4 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 9 m, 25.v.–24.vi.2012, 41 m, 24.vi.–26.vii.2012, 38 m, MT (JR & JŠ).

***Phytosciara halterata* (Lengersdorf, 1926)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 3 m, MT (JŠ).

***P. macrotricha* (Lengersdorf, 1926)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 2 m, MT, Muránska Lehota, 12.iv.–24.v.2012, 1 m, 22.vi.–25.vii.2012, 2 m, MT (JR & JŠ); NP Slovenský raj, NPR Stratená, 27.ix.2009, 5 m, sweeping (all JŠ).

***P. oldenbergi* Mohrig & Menzel, 1994**

Material examined: NP Muránska planina, Muránska Lehota, 24.v.–22.vi.2012, 5 m, MT (JR & JŠ).

****Prosciara porrecta* (Lengersdorf 1929)**

Material examined: NP Muránska planina, Tisovec, along brook, 12.vii.2011, 1 m (JŠ).

A rare species known from several European countries. This is the first record from Slovakia.

***P. unguata* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 4 m, MT (JR & JŠ).

****Pseudolycoriella bruckii* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, 25.v.–24.vi.2012, 6 m, MT (JR & JŠ).

A European species, known also from the Czech Republic (Pálava Biosphere Reserve, see Rudzinski 1998). This is the first record from Slovakia.

***P. brunnea* (Bukowski & Lengersdorf, 1936)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ).

****P. paludum* (Frey, 1948)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 9 m, MT (JR & JŠ).

A rather common species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***P. subbruckii* (Mohrig & Hovemeyer, 1992)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 3 m, MT (JŠ), Muránska Lehota, 24.v.–22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, 25.v.–24.vi.2012, 7 m, 24.vi.–26.vii.2012, 29 m, MT (JR & JŠ).

****Pseudolycoriella* sp.**

Material examined: NP Muránska planina, Rimava Valley, along brook, 5.ix.2012, 1 m (JŠ).

This is an interesting new species known also from Switzerland. It will be described elsewhere.

****Scatopsiara atomaria* (Zetterstedt, 1851)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A very common species known from many European countries, including the Czech Republic. This is the first record from Slovakia.

****S. curviforceps* (Bukowski & Lengersdorf, 1936)**

Material examined: NP Muránska planina, Mokrý Polana, 890 m, clearing in forest, 25.vi.2012, 4 m, reared from *Agrostis gigantea* (JR, sample B53).

A rather rare species known from several European countries. This is the first record from Slovakia.

***S. edwardsi* Freeman, 1983**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT (JŠ).

****S. fluviatilis* (Lengersdorf, 1940)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rather common species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****S. multispina* (Bukowski & Lengersdorf, 1936)**

Material examined: NP Muránska planina, Muránska Lehota, 24.v.–22.vi.2012, 1 m, MT (JR & JŠ).

A rather common species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

****S. subciliata* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rare species known from several European countries. This is the first record from Slovakia.

****S. tricuspidata* (Winnertz, 1867)**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 12.iv.–25.v.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***Schwenckfeldina carbonaria* (Meigen, 1830)**

Material examined: NP Slovenský raj, NPR Stratená, 27.ix.2009, 1 m; NP Slovenský kras: Zádielská tiesnava NPR, 5.ix.2008, 1 m; NPR Drieňovec, 5.ix.2008, 1 m (all JŠ).

****Sciara flavimana* Zetterstedt, 1851**

Material examined: NP Muránska planina, NPR Šiance, top plateau, 25.v.–24.vi.2012, 4 m, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***S. helvola* Winnertz, 1867**

Material examined: NP Muránska planina, NPR Hrdzavá, 28.vi.–26.vii.2010, 13 m, 26.vii.–7.x.2010, 1 m, MT, NPR Poludnica, Suchý dol, 31.v.–13.vii.2011, 1 m, 13.vii.–8.ix.2011, 1 m, MT; Tisovec, along brook, 22.vi.2012, 1 m (all JŠ), Muránska Lehota, 22.vi.–25.vii.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, 24.vi.–26.vii.2012, 28 m, MT (JR & JŠ).

***S. hemerobioides* (Scopoli, 1763) – Fig. 3**

Material examined: NP Muránska planina, NPR Hrdzavá, 26.vii.–7.x.2010, 1 m, MT, NPR Šiance, top plateau, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ), Tisovec, along brook, 22.vi.2012, 1 m; NP Slovenský kras, NPR Drieňovec, 5.ix.2008, 1 m (all JŠ).

***S. humeralis* Zetterstedt, 1851**

Material examined: NP Muránska planina, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (JŠ).

***S. mendax* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v.–13.vii.2011, 4 m, 13.vii.–8.ix.2011, 11 m, MT (JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ).

****S. ruficauda* Meigen, 1818**

Material examined: NP Muránska planina, Muránska Lehota, 22.vi.–25.vii.2012, 4 m, MT (JR & JŠ).

A rather rare species known from several European countries, including the Czech Republic. This is the first record from Slovakia.

***Scythropochroa radialis* Lengersdorf, 1926**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 2 m, 13.vii.–8.ix.2011, 2 m, MT (JŠ), Muránska Lehota, 12.iv.–24.v.2012, 2 m, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***Trichosia acrotricha* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 5 m, MT (JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***T. confusa* Menzel & Mohrig, 1997**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 2 m, MT (all JŠ), Muránska Lehota, 12.iv.–24.v.2012, 1 m, 24.v. –22.vi.2012, 5 m, MT (JR & JŠ), NPR Šiance, top plateau, 24.vi.–26.vii.2012, 1 m, MT (JR & JŠ).

***T. edwardsi* (Lengersdorf, 1930)**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT, NPR Hrdzavá, 28.vi.–26.vii.2010, 1 m, MT (all JŠ), NPR Šiance, top plateau, 12.iv.–25.v.2012, 2 m, 24.vi.–26.vii.2012, 2 m, MT (JR & JŠ).

***T. flavicoxa* Tuomikoski, 1960**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 1 m, MT (JŠ), NPR Šiance, top plateau, 25.v.–24.vi.2012, 1 m, MT (JR & JŠ).

***T. morio* (Fabricius, 1794)**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 31.v. –13.vii.2011, 1 m, MT, Závadka n. H., Dolina Hronca, 24.vi.2012, 1 m (both JŠ), Muránska Lehota, 12.iv.–24.v.2012, 5 m, 24.v. –22.vi.2012, 6 m, MT (JR & JŠ).

***T. splendens* Winnertz, 1867**

Material examined: Muránska planina NP; NPR Šarkanica, 24.v.2012, 1 ♂ sweeping (JŠ).

***T. ussurica* Mohrig & Antonova, 1978**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

****Trichosia* sp.**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

This is an undescribed species, which is closely related to *Trichosia ussurica* Mohrig & Antonova, 1978.

****Trichodapus rhenanus* (Fritz, 1982)**

Material examined: NP Muránska planina, NPR Hrdzavá, 3.ix.2008, 1 m (JŠ).

A very rare species known only from several European countries (Great Britain, Germany, Switzerland, Ukraine). This is the first record of both the genus and species from Slovakia.

****Zygoneura bidens* (Mamaev, 1968)**

Material examined: NP Muránska planina, NPR Poludnica, Suchý dol, 13.vii.–8.ix.2011, 2 m, MT (JŠ).

This species was described from the Russian Far East and this is the first record from Europe.

****Z. calthae* Tuomikoski 1960**

Material examined: NP Muránska planina, NPR Fabova Hoľa, 16.vi.–25.viii.2009, 1 m, MT (JŠ).

A rare species known from several European countries. This is the first record from Slovakia.

***Z. sciarina* Meigen, 1830**

Material examined: NP Muránska planina, NPR Hrdzavá, 3.–5.ix.2012, 1 m, yellow pan trap, 5.ix.2012, 1 m (both JŠ).

A rather common European species (Fig. 4).



Figs 3–4: 3 – A pair of *Sciara hemerobioides* (Scopoli, 1763) from Tisovec; 4 – Male of *Zygoneura sciarina* Meigen, 1830 from Hrdzavá reserve. Photos by J. Ševčík.

Conclusions

A total of 131 species of Sciaridae have been recorded from the Gemer region up to the present, including four species new to science and an additional 47 species recorded here as new to Slovakia. This number is certainly not final and will be increased with additional sampling effort in the area.

Within the Gemer region, Muránska planina NP is clearly the most studied area with 126 species recorded, while from both Slovenský kras NP and Slovenský raj NP only a limited number of samples is available. However, the species composition of Sciaridae in those adjacent national parks will most probably be very similar. Anyway, Muránska planina NP is with its 131 species the most species-rich area in Slovakia with regard to the fauna of black fungus gnats, together with the neighbouring Poľana Mts (see Rudzinski & Ševčík 2009) where 104 species of Sciaridae have been recorded up to now. If we compare this number with some well-studied areas in the Czech Republic, the Bílina and Duchcov Environs (North-West Bohemia) is even richer (160 spp. of Sciaridae, see Menzel et al. 2000) while in the Pálava Biosphere Reserve in South Moravia only 73 species of Sciaridae were recorded (Rudzinski 1998).

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Dvoukřídli nadčeledi Sciaroidea (Diptera) regionu Gemer (střední Slovensko): Část 3 – Sciaridae

Celkem 131 druhů čeledi Sciaridae je zaznamenáno z regionu Gemer na středním Slovensku. Materiál byl získán v letech 2008–2012 pomocí Malaiseho pastí a individuálním sběrem druhého z autorů. Celkem 51 druhů je zaznamenáno jako nových pro Slovensko, včetně 4 druhů nových pro vědu, které budou popsány v samostatných publikacích.

Authors' addresses: Hans-Georg Rudzinski, Breslauer Straße 8/b, D-28790 Schwanewede, Germany.
E-mail: EntomoSRudz@aol.com
Jan Ševčík, University of Ostrava, Chittussiho 10, CZ-710 00 Ostrava & Silesian Museum, Tyršova 1, CZ-746 01 Opava, Czech Republic. E-mail: sevcikjan@hotmail.com