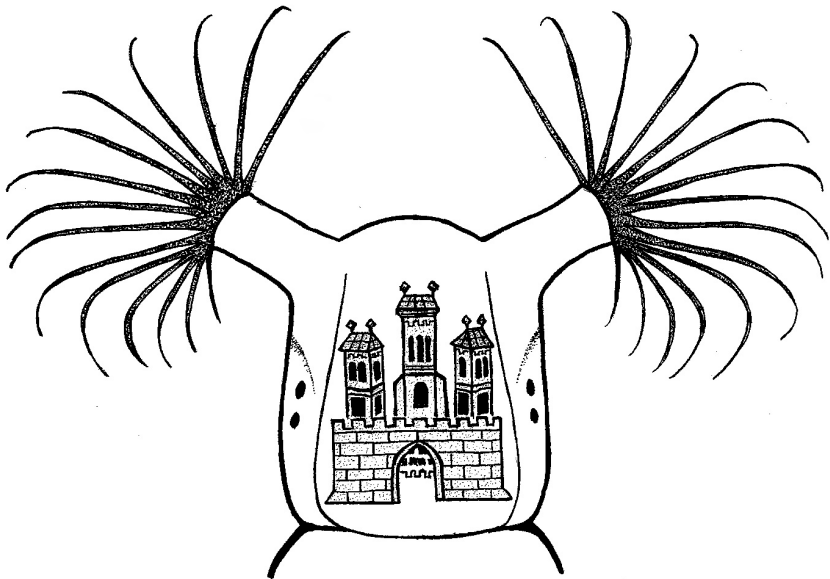


5th International Simuliid Symposium
including the 32th Meeting of the British Simuliid Group

Programme and abstract book



**Faculty of Natural Sciences
Comenius University in Bratislava
Slovakia
September 3 – 7, 2012**

Organising committee:

Matúš Kúdela, Viera Stloukalová, Tatiana Brúderová

Editors of the book of abstracts:

Matúš Kúdela & Viera Stloukalová



PROGRAMME

Monday 3 September

since 16:00 Registration (botel Fairway)

19:00 – 21:00 Welcome party (botel Fairway)

Tuesday 4 September

8:30 – 9:00 Registration (Faculty of Natural Sciences, Comenius University)

9:00 – 9:30 opening of the Symposium

9:30 – 13:10 presentations

13:10 – 15:00 lunch break

15:00 – 16:00 presentations

16:30 – 22:00 Visit of the Červený kameň castle and
the wine cellar Fuggerov dom in village of Častá, dinner

Wednesday 5 September

whole day field trip

departure of the boat 8:30

arrival with bus cca 20:00

Thursday 6 September

9:00 – 13:10 presentations

13:10 – 15:00 lunch break

15:00 – 18:00 presentations

19:30 gala dinner



ORAL PRESENTATIONS

Tuesday 4 September

- 9:30 – 10:10 Peter H. Adler: Biodiversity, ancient DNA barcodes, and symbiotic surprises in the Simuliidae
- 10:10 – 10:30 Matúš Kúdela, Ladislav Jedlička, Tatiana Brúderová & Rasa Bernotiene: *Simulium reptans*, *Simulium galeratum* and similar species in Europe
- 10:30 – 10:50 Tatiana Brúderová, Matúš Kúdela: Morphological and genetic variability of *Simulium colombaschense* – the type species of the genus *Simulium*
- 10:50 – 11:10 Matúš Kúdela, Ladislav Jedlička & Rasa Bernotiene: Status of *Simulium* (*Wilhelmia*) *lineatum* and *Simulium* (*Wilhelmia*) *balcanicum* according to analysis of mtDNA COI gene
- 11:10 – 11:30 **COFFEE BREAK**
- 11:30 – 11:50 Peter H. Adler, Abdullah Inci, Alparslan Yildirim, Gunther Seitz & Onder Duzlu: Chromosomal insights into the pest status of the subgenus *Wilhelmia* in Turkey
- 11:50 – 12:10 Abdullah Inci, Alparslan Yildirim, Onder Duzlu, Peter H. Adler, Zuhul Biskin, Arif Ciloglu, Hakan Yesiloz, Ahmet Demircioglu & Gunther Seitz: Molecular characterization of blackflies (Diptera: Simuliidae) collected from Kizilirmak River in Nevsehir province of Turkey
- 12:10 – 12:30 Alexey Yankovsky, Yerbol Issakayev, Daria Khassanova & Aisulu Tailakova: New blackfly species in the genus *Montisimulium* from the north-eastern Kazakhstan
- 12:30 – 12:50 Marija Ivković, Marijana Kesić & Zlatko Mihaljević: Temporal and spatial variations in phenology patterns of blackflies (Diptera: Simuliidae) and their longitudinal distribution along oligotrophic freshwater system
- 12:50 – 13:10 John W. McCreaddie & Peter H. Adler: A metacommunity view of black fly species assemblages
- 13:10 – 15:00 **LUNCH BREAK**
- 15:00 – 15:20 Irina Budaeva & Ludmila Khitsova: The species composition and altitude distribution of black flies (Diptera, Simuliidae) of the North-West Caucasus streams
- 15:20 – 15:40 Matúš Kúdela, Aleksandra Ignjatović Čupina, Tatiana Brúderová & Dušan Petrić: The blackfly fauna (Diptera, Simuliidae) of the Iron Gate area (eastern Serbia, southwestern Romania) in the past and present
- 15:40 – 16:00 Liudmila Petroschitskaya & Vera Rodkina: Zonal and latitudinal distribution of blackflies (Diptera, Simuliidae) in the West Siberia



Thursday 6 September

- 9:00 – 9:55 Rory Post: **Entomology and the elimination of onchocerciasis by community directed treatment with Ivermectin in Africa**
- 9:55 – 10:15 Poppy H.L. Lamberton, Robert A. Cheke, Osei-Atweneboana, M.Y., Winskill, P., Rory J. Post, Tetteh-Kumah, A., Shew, K.J.S., Wilson, M.D. & Maria-Gloria Basáñez: ***Simulium damnosum* complex geographical distribution and host choice in Ghana where onchocerciasis transmission is under ivermectin control**
- 10:15 – 10:35 Elmer W. Gray, Joseph P. Iburg, Roger D. Wyatt, Robert A. Fusco & Raymond Noblet: **The effect of seston on larval black fly mortality after exposure to a *Bacillus thuringiensis* subsp. *israelensis* based larvicide**
- 10:35 – 11:05 **COFFEE BREAK**
- 11:05 – 11:25 Charles Brockhouse, Soochin Cho, Alexie Papanicolaou, Rory Post, Daniel Boakye, Michael Pfrender & John K. Colbourne (Simulium Genomics Consortium): **Progress in the Simulium Genomics Project**
- 11:25 – 12:45 Inaki Tirados, Evans Muki, Pierre Baleguel, Graham A. Matthews & Robert A. Cheke: **How do blackflies identify their hosts? Results of a preliminary study of visual and olfactory responses of *Simulium squamosum* B in Southern Cameroon**
- 11:45 – 12:05 Ruiz-Arrondo I., Martinez E., Kotter H., Figueras L., Muñoz A., Delacour-Estrella S., Alarcón-Elbal P. M., Pinal R. & Lucientes J.: **Blackfly outbreak in Zaragoza in 2011. Spread of blackflies in the Middle Ebro Valley in north-east Spain**
- 12:05 – 12:25 Rasa Bernotiene & Milda Zygutiene: **The pause in blackfly control in Lithuania**
- 12:30 – 13:15 **poster session**
- 13:15 – 15:00 **LUNCH BREAK**
- 15:00 – 15:20 Robert A. Cheke, Tetteh-Kumah, A., Rory J. Post, Poppy H. L. Lamberton & Maria-Gloria Basáñez: **Compact discs for sampling immature stages of members of the *Simulium damnosum* complex**
- 15:20 – 15:40 Doreen Werner & Adrian Pont: **New results on Diptera predators in the black fly plague areas of South Africa**
- 15:40 – 16:00 Aleksandra Ignjatović Čupina, Dušan Petrić, Elias Papadopoulos, Sokratis Ptochos, Domenico Otranto, Filipe Dantas-Torres, Yassen Mutafchiev & Odile Bain: **Notes on blackfly fauna in Western Thrace (northeastern Greece)**



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- 16:00 – 16:20 Simone Ciadamidaro: **Preliminary notes on black fly fauna in Piedmont region, northern Italy**
- 16:20 – 16:40 **COFFEE BREAK**
- 16:40 – 17:00 Csaba Deák & Krisztián Kovács: **First records of *Simulium (Hellichella) latipes* (Meigen, 1804) (Diptera: Simuliidae) in Hungary**
- 17:00 – 17:20 Bruno Maiolini, Sonia Endrizzi & M. Cristina Bruno: **Blackflies as indicators of ecological stress in two Alpine streams with different land use in the catchment**
- 17:20 – 17:40 Rooschanak Foroutan Saravi & Norbert Becker: **The Simuliidae fauna of South West Germany**
- 17:40 – 18:00 Rasa Bernotiene, Irina Budaeva, Erbol Issakaev & Liudmila Petrozhitskaya: **Comparison of *Simulium maculatum* Mg. biology in different parts of Palaearctic**

POSTER PRESENTATIONS

Sergej V. Aybulatov: **Blackflies (Diptera: Simuliidae) of Leningradskaya and Vologodskaya regions (Russia)**

Simone Ciadamidaro, Dušan Petrić, Aleksandra Ignjatović-Ćupina & Matúš Kúdela: **Black fly species succession from Alps to lowland rivers in Piedmont, north-western Italy**

Atefeh Khazeni, Zakieh Telmadarrehy, Mohammad-Ali Oshaqi, Hasan Vatandoost & Seyed Mohammad Abtahi: **A new study on blackflies (Simuliidae) of Iran in central regions**

Gunter Seitz: **The Blackfly Fauna (Diptera: Simuliidae) of the Gesäuse National Park in Austria**

Andrej Štangler: **Typology of running waters according to blackfly communities in conditions of Borská nížina lowland (West Slovakia)**

Hakan Yesiloz, Alparslan Yildirim, Peter H. Adler, Abdullah Inci, Onder Duzlu, Arif Ciloglu & Zuhail Biskin: **Molecular classification of some simuliid larvae collected from Central Basin of Kizilirmak River based on the sequence analyses of mt-COI and ITS-2 gene regions**



The blackfly fauna (Diptera, Simuliidae) of the Iron Gate area (eastern Serbia, southwestern Romania) in the past and present

MATUŠ KÚDELA¹, ALEKSANDRA-IGNJATOVIĆ ČUPINA², TATIANA BRÚDEROVÁ¹ & DUŠAN PETRIĆ²

¹Department of Zoology, Comenius University, Mlynská dolina B-1, SK-84215 Bratislava, Slovakia; kudela@fns.uniba.sk, tanabrunderova@gmail.com

²University of Novi Sad, Faculty of Agriculture, Trg Dositeja Obradovića 8, 21000 Novi Sad, Serbia; cupinas@polj.uns.ac.rs, dusanp@polj.uns.ac.rs

The middle and lower Danube river has the character of a lowland river except the Iron Gate (Djerdap gorge) in eastern Serbia and southwestern Romania, where it flows over a canyon in the Southern Carpathians. This section represented the main breeding site of *Simulium colombaschense* (Scopoli, 1780), the most ferocious blackfly species in Europe, that caused enormous losses of livestock in the past. Due to repeated outbreaks of this species, this region was the targeted study area of several researchers over more than 100 years. Besides establishing the composition of the blackfly fauna in the Danube, at the same time also efforts were done in order to light up the species composition of the Danube tributaries in this area. At the end of 60's of the last century the river has been dammed here, and significant environmental changes of the blackfly breeding sites occurred. In the first period – during the building of the dams and short after putting them in operation – the blackfly community changes are well documented. The number of blackflies decreased and the ratio of lowland species (*Simulium galeratum* Edwards, 1920 and *S. erythrocephalum* (De Geer, 1776) increased. One species – *Metacnephia danubica* (Rubtsov, 1956) – disappeared completely, the abundance of *S. colombaschense* decreased dramatically and the problems with outbreaks disappeared. In consequence, research of blackflies in this area was abandoned and the data on the present state of the black fly fauna were completely missing over more than 35 years. In 2006 – 2012 we found in the Danube no suitable conditions for blackfly preimaginal stages and the river in the Iron Gate seems not to be breeding site of any blackfly more. We found numerous blackfly breeding sites in the tributaries of the Danube, *S. colombaschense* was not present even here. The closely related *S. reptans* (Linnaeus, 1758) was dominant in the larger tributaries (Porečka reka, Cerna). We could not confirm the presence of *S. erythrocephalum*, *S. maculatum* (Meigen, 1804), *S. bezzii* (Corti, 1914) and *S. voilense* Sherban, 1960. We found *P. tomosvaryi* (Enderlein, 1921), *P. hirtipes* (Fries, 1824), *P. rufipes* (Meigen, 1830), *S. cryophilum* (Rubtsov, 1959), *S. argenteostriatum* Strobl, 1898, *S. degrangei* Dorier & Grenier, 1960 and *S. monticola* Friederichs, 1920 for the first time here. The taxon labeled as *S. vulgare* Dorogostaisky, Rubtsov & Vlasenko, 1935 in central Europe was found for the first time in Serbia, it was present at many sites investigated. Several of the found species present taxonomically unresolved problems.