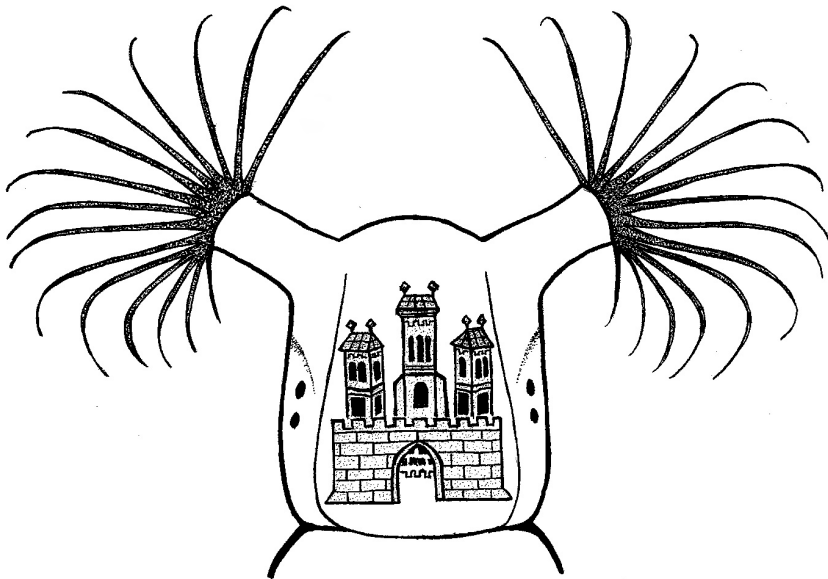


5th International Simuliid Symposium
including the 32th Meeting of the British Simuliid Group

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)**



5th International Simuliid Symposium
Bratislava, Slovakia, September 3 – 7, 2012

- 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**



Notes on blackfly fauna in Western Thrace (northeastern Greece)

ALEKSANDRA IGNJATOVIĆ ČUPINA¹, DUŠAN PETRIĆ¹, ELIAS
PAPADOPOULOS², SOKRATIS PTOCHOS², DOMENICO OTRANTO³,
FILIPE DANTAS-TORRES^{3,4}, YASEN MUTAFCHIEV⁵ & ODILE BAIN⁶

¹ University of Novi Sad, Faculty of Agriculture, T. Dositeja Obradovića 8, 21000
Novi Sad, Serbia; cupinas@polj.uns.ac.rs

² Aristotle University of Thessaloniki, Faculty of Veterinary Medicine, Laboratory
of Parasitology & Parasitic Diseases, 54124, Thessaloniki, Greece

³ University of Bari, Faculty of Veterinary Medicine, Valenzano, Italy

⁴ Aggeu Magalhães Research Centre Oswaldo Cruz Foundation, Recife, Brazil

⁵ Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences,
2 Yurii Gagarin Street, 1113 Sofia, Bulgaria

⁶ Muséum National d'Histoire Naturelle, UMR 7205 CNRS, Paris, France

The research of blackfly fauna was conducted in the prefectures of Xanthi and Rodopi (northeastern Greece) at the end of June 2011 and at the beginning of July 2012.

Samplings of immature stages were performed in the three main permanent watercourses: Kosynthos river at localities near Xanthi and Amaxades (in 2011 and 2012), Nestos river near Stavroupoli (in 2012) and Kompasos river near Polyantho (in 2012).

Adult sampling was performed by application of CO₂ baited traps (type NS-2) in localities close to the breeding sites (Xanthi and Amaxades in 2011 and 2012; Stavroupoli in 2012). Additionally, in the close vicinity of the Kosynthos river the collection of adults was performed by the use of sweeping net and by sampling from the host (horses, dogs and humans).

High population densities of *Simulium* (*Wilhelmia*) *pseudequinum* Séguéy, 1921 and *S. (W.) balcanicum* (Enderlein, 1924) immature stages were recorded in Kosynthos river in 2011 and 2012. *S. (W.) balcanicum* was the dominant species in Kompasos river and *S. (Simulium) reptans* (Linnaeus, 1758) in Nestos river.

In accordance with the observations of blackfly fauna in the breeding sites of Kosynthos and Nestos rivers, the most frequently captured species in traps were the species of *Wilhelmia* subgenus at the locality of Xanthi and *S. reptans* at the locality of Stavroupoli. Biting activity of adult females of both species of the *Wilhelmia* subgenus was observed on horses and dogs, while *S. reptans* attacked humans as well.

Such results impose the conclusion that those three mammophilic species could be considered as species of medical and veterinary importance in the prospected region. Other identified species (*S. (S.) ornatum* Meigen, 1818 (complex), *S. (S.) bezzii* (Corti, 1914) (complex) and *S. (E.) velutinum* (Santos Abreu, 1922) were recorded in low population densities.

Acknowledgments: The authors are grateful to Lénaïg Halos (Merial, France), the Ministry of Education and Science of the Republic of Serbia (Project numbers TR31084 and III43007) and to the Secretariat of Science and Technological Development of the AP Vojvodina for the support to the research.