



Biodiversität und Klima  
Forschungszentrum

 **LOEWE** – Landes-Offensive zur  
Entwicklung **Wissenschaftlich-**  
ökonomischer **Exzellenz**

senckenberg  
forschungsinstitut und naturmuseum



  
**GOETHE**  
**UNIVERSITÄT**  
FRANKFURT AM MAIN

# Alien and native vectors – risks for human and animal health



29-31 October 2009

Joint conference of the Deutsche Gesellschaft für  
Medizinische Entomologie und Acarologie e.V. (DGMEA)  
and the Biodiversity and Climate Research Centre (BiK-F)  
Annual meeting of DGMEA

Venue: Senckenberg Research Institute and Natural  
History Museum, Senckenberganlage 25,  
60325 Frankfurt am Main, Germany

[www.senckenberg.de](http://www.senckenberg.de)

 **Biogen**  
Science for your protection

 **NOVARTIS**  
ANIMAL HEALTH

## Thursday, 29 October 2009

### 16:00 Conference opening and welcome address

**16:10** *Paul Becker, Deutscher Wetterdienst (DWD), Offenbach am Main*

Predicting climate change in Germany: current trends, problems and outlooks

**16:55** *Francis Schaffner, Referenzlabor für Vektor-Entomologie, Universität Zürich*

Mosquito-borne diseases on the way: native or invasive vectors?

**17:40** *Martin Pfeffer, Institut für Tierhygiene und Öffentliches Veterinärwesen, Universität Leipzig*

Rift Valley Fever and other Bunyavirus infections

**18:00** *Roger Eritja, Servei de Control de Mosquits, Consell Comarcal del Baix Llobregat, Barcelona*

The Asian Tiger Mosquito (*Aedes albopictus*) in Catalonia: dealing with global invasions of disease vectors

### 18:45 Coffee break

### **Public evening lecture (in German) / Öffentlicher Abendvortrag:**

**19:00** *Michael Faulde, Zentrales Institut des Sanitätsdienstes der Bundeswehr, Koblenz*

Krankheitsüberträger, überall: Medizinische Entomologie in einer globalisierten Welt

**20:00 Come-together at BiK-F** (registered participants and accompanying persons only)

Informal reception in the Biodiversity and Climate Research Centre building, Georg-Voigt-Str. 14-16 (across the street from the conference venue)

## Friday, 30 October 2009

**09:00** *Carl Beierkuhnlein, Department of Biogeography, Universität Bayreuth*

Alien and native insect vectors in the light of global change – challenges for interdisciplinary research

**09:30** *Andreas Krüger, Bundeswehr am Bernhard-Nocht-Institut für Tropenmedizin, Hamburg*

Scientific highlights from the 5<sup>th</sup> International Congress of the Society of Vector Ecology in Antalya, Turkey, 11-16 October 2009

**09:45** *Andreas Rose, Biogents AG & Universität Regensburg*

Technical advances in vector surveillance: comparison of sampling tools for adult mosquitoes

**10:15** *Mandy Kronefeld, Biodiversität und Klima Forschungszentrum (BiK-F), Frankfurt am Main*

Filaria prevalence in mosquitoes in Bangladesh: a diversity-oriented pilot study

**10:30 Coffee break and poster viewing**

**10:50** *Helge Kampen, Friedrich-Loeffler-Institut, Insel Riems*

Bluetongue disease in Germany – learning to cope with emerging vector-borne diseases

**11:20** *Jörn Gethmann, Friedrich-Loeffler-Institut, Institut für Epidemiologie, Wusterhausen*

Epidemiology of bluetongue disease in Germany

**11:35** *Martin Hall, Department of Entomology, Natural History Museum, London*

Traumatic myiasis - a moveable feast!

**12:00** *Kurt Pfister, Vergleichende Tropenmedizin und Parasitologie, Ludwig-Maximilians-Universität München*

Risk evaluation for endemic *Leishmania* transmission in Southern Germany

**12:15** *Paul Ready, Department of Entomology, Natural History Museum, London*

Any evidence for the northwards spread of phlebotomine sandflies and canine leishmaniasis in Europe?

**12:45 Lunch break**

**13:45** *Doreen Werner, Senckenberg Deutsches Entomologisches Institut & Leibniz-Zentrum für Agrarlandschaftsforschung (ZALF), Müncheberg*

*Andrzej Grzywacz, Animal Ecology Department, Nicolaus Copernicus University, Toruń*

Identification of true flies (Muscidae) of medical and hygienic importance (DGMEA Satellite Workshop)

**16:45 Coffee break**

**17:15 DGMEA business meeting** (DGMEA members only)

**19:30 Dinner among dinosaurs** (registered participants and accompanying persons only)

Dinner buffet in the dinosaur hall of the Senckenberg Natural History Museum

**Saturday, 31 October 2009**

**09:00** *Jennifer Pausch, AG Spezielle Zoologie/Parasitologie, Ruhr-Universität Bochum*

Intestinal antibacterial factors and their interaction with symbionts in *Triatoma infestans*

**09:15** *Eva Scholl, Nürnberg*

From integrated pest control to holistic risk reduction – sustainable management of nuisance pests, disease carriers and vectors

**09:30** Peter Kraiczy, Institut für Medizinische Mikrobiologie und Krankenhaushygiene, Goethe-Universität, Frankfurt

Lyme borreliosis: Where do we go from here?

**10:00** Jasmin Skuballa, Abteilung für Ökologie und Parasitologie, Universität Karlsruhe

The role of the European hedgehog (*Erinaceus europaeus*) in the epidemiology of arthropod borne diseases

**10:15** Silvia Pluta, Landesgesundheitsamt Baden-Württemberg, Stuttgart

*Dermacentor* ticks as vectors for *Coxiella burnetti* and *Rickettsia* spp. in southern Germany

### **10:45 Coffee break and poster viewing**

**11:15** Doreen Werner, Senckenberg Deutsches Entomologisches Institut & Leibniz-Zentrum für Agrarlandschaftsforschung (ZALF), Müncheberg

The mass occurrence of black flies (Diptera: Simuliidae) in European lowland rivers and their manipulation by chemical control and the renaturalization of rivers

**11:45** Daniel Boakye, Noguchi Memorial Institute for Medical Research, University of Ghana

Climatic and ecological changes and the movement and establishment of members of the *Simulium damnosum* complex in West Africa

**12:15** Anges Yadouleton, Centre de Recherches Entomologiques de Cotonou, Bénin

Effects of urban market crop farming on the occurrence, distribution and insecticide resistance of malaria vectors (*Anopheles gambiae* s. lat. complex) and malaria prevalence in Bénin

**12:30** Martin Geier, Biogents AG & Universität Regensburg

Control of mosquitoes by mass trapping: field studies in Italy and Brazil with BG-Sentinel traps

**12:45** Rainer Ulrich, Friedrich-Loeffler-Institut, Institut für neue und neuartige Infektionskrankheiten, Insel Riems

Network "Rodent-Borne Pathogens" in Germany: Molecular epidemiology of hantavirus and *Leptospira* infections in rodent hosts

### **13:00 Presentation of Biogents Student Awards for best contributed talks and posters**

### **13:15 Conclusions and closing of conference**

### **Poster presentations**

Posters will be displayed throughout the conference. The morning coffee breaks on Friday and Saturday are designated for viewing and discussing posters. All poster presenters are requested to be available for questions next to their poster during these two coffee breaks.

## List of poster presentations

**P1** *Hilaria Amuzu, Noguchi Memorial Institute for Medical Research, University of Ghana*

Variation in *Anopheles gambiae* s. l. exhibiting different vectorial capacities for lymphatic filariasis transmission in coastal Ghana

**P2** *Mandy Kronefeld, Biodiversität und Klima Forschungszentrum (BiK-F), Frankfurt am Main*

Diversity and population structure of *Culex pipiens* complex mosquitoes in Bangladesh: preliminary results from mitochondrial DNA sequence analysis

**P3** *Erik Schmolz, Bundesumweltamt, Sektion IV 1.4 Gesundheitsschädlinge und ihre Kontrolle, Berlin*

Heat tolerance of the bed bug *Cimex lectularius*

**P4** *Zhanna Shapiyeva, Republican Sanitary-Epidemiological Station, Ministry of Health, Kazakhstan*

Malaria mosquitoes in southern Kazakhstan

**P5** *Konstans Wells, Institut für Experimentelle Ökologie, Universität Ulm*

Landscape attributes influence ectoparasite infestations of hedgehogs (*Erinaceus europaeus*) in an urban-suburban environment

### Corporate sponsors:



[www.biogents.com](http://www.biogents.com) / [www.bg-sentinel.com](http://www.bg-sentinel.com) / [www.mosquitaire.com](http://www.mosquitaire.com)



### Organisers:

Jens Amendt  
Institut für Forensische Medizin, Goethe-Universität  
Kennedyallee 104  
D-60596 Frankfurt am Main  
[amendt@em.uni-frankfurt.de](mailto:amendt@em.uni-frankfurt.de)

Ulrich Kuch  
Biodiversität und Klima Forschungszentrum (BiK-F)  
Senckenberganlage 25  
D-60325 Frankfurt am Main  
[Ulrich.Kuch@senckenberg.de](mailto:Ulrich.Kuch@senckenberg.de)